



**Delaware State University | Dover, Delaware 19901 | Revised August 2017**  
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*Delaware State University is an Equal Educational and Employment Opportunity/Affirmative Action Institution.*

*The provisions of this publication are not being regarded as an irrevocable contract between the student and Delaware State University. The University reserves the right to revise any provision or regulation at any time within the student's term of enrollment, if it is deemed advisable. Advance notice of any changes is given whenever possible.*

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

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## A MESSAGE FROM PRESIDENT HARRY L. WILLIAMS



Greetings:

As you embark upon your new journey at Delaware State University, you have an opportunity to experience 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 journey to greatness. 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 that offers access and opportunity to diverse populations from Delaware, the nation, and the world. Building on its heritage as a historically black college, the University purposefully integrates the highest standards of excellence in teaching, research, and service in its baccalaureate, master's and doctoral programs. Its commitment to advance science, technology, liberal arts, and the professions produces capable and productive leaders who contribute to the sustainability and economic development of the global community.

## 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 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 strives for excellence and seeks to be the best in all that it does. Its belief is 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 through outstanding academic programs and excellent campus life, including well-defined and well-managed extracurricular activities.

It is also dedicated to ensuring all undergraduate students receive 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 and 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.

The University places major emphasis on teaching quality. At the same time, it 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, Delaware State University is committed to serving the surrounding 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 Delaware 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.

Because there was already a private Delaware College (now the University of Delaware) located in Newark, Del., to avoid confusion new state legislation was passed and enacted in early 1893 to change the black school's name to the State College for Colored Students. That would be the institution's name for the next 54 years.

Through the conservative and practical planning of the Board of Trustees appointed by Gov. 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 1944, the College received provisional accreditation by the Middle States Association of Colleges and Schools. The University's accreditation was most recently reaffirmed by the Middle States Commission on Higher Education (MSCHE) in 2012.

In 1947, the name of the institution was changed to "Delaware State College" by legislative action. On July 1, 1993, the College turned another chapter in its history when Gov. Thomas Carper signed a name change into law, renaming the institution Delaware State University.

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; the College of Mathematics, Natural Sciences & Technology; and University College.

The University offers 42 undergraduate degrees, which include unique and traditional majors such as Agriculture, Aviation, Computer Science, Criminal Justice, Forensic Biology, Hospitality & Tourism Management, Management, Mass Communications, Natural Resources, New Media in Arts, Nursing, Physics, Public Health, Social Work and Textiles & Apparel Studies.

Delaware State University also offers 16 master's degrees in Agriculture (Animal Science, Plant Science), Applied Optics, Biological Sciences (M.S.), Business Administration (Aviation, Business Analytics, CPA, Finance, Hospitality and Tourism Management, Information Systems or Project Management), Applied Chemistry (M.S.), Computer Science, Educational Leadership, Food Science, Mathematics (Pure or Applied), Molecular and Cellular Neuroscience, Natural Resources, Physics, Public Administration, Social Work, Sport Administration, as well as Teaching English as a Second Language.

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

The institution has national academic program accreditations from the Accreditation Commission for Education in Nursing, the Council on Social Work Education, the Accreditation Commission for Programs in Hospitality Administration, the Council for the Accreditation of Educator Preparation, and the Accreditation Council for Education in Nutrition and Dietetics. 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 ten permanent presidents and two acting presidents. The ten permanent presidents have 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). The two acting presidents are listed as follows: Maurice E. Thomasson served twice as acting president from 1949-50 and 1951-1953; and Dr. Claibourne Smith served as the acting president from 2008-2010.

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.



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<http://www.msche.org/>

## THE SETTING

### The Campus and Facilities

Delaware State University is located in Dover, DE, in Kent County, 45 miles south of Wilmington on the Delmarva Peninsula. The campus is adjacent to U.S. Route 13, which provides direct access to Norfolk, VA; Salisbury, MD; Wilmington, DE; Philadelphia, PA; and Camden, NJ. Other connecting highways in the Dover area provide access to the Chesapeake Bay Bridge; Washington, D.C.; Baltimore, MD; and points west. The New York metropolitan area can be reached via the Delaware Memorial Bridge and the New Jersey Turnpike, which intersect Route 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 Delmarva Peninsula within easy reach of the resort areas of Rehoboth Beach, DE; Ocean City, MD; and Cape May, NJ. 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.

**Claibourne D. Smith Administration Building** accommodates a small Café, the Office of Admissions, the Office of Student Financial Services, the Office of Student Accounts, the Office of Records & Registration, 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, the 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 America Building** is the home of the College of Business, which includes the departments of Accounting, Economics & Finance and Business Administration, 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, offices of University College and SunGard offices.

**William C. Jason Library**, a six-story structure, houses a collection of more than 397,701 publications, including books, electronic materials, media materials and microbooks. The library is also home to offices of University College, as well as the 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.

**Lookerman Hall**, built circa 1720, is often referred to as "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, Student Leadership and Activities, Judicial Affairs and Alumni Relations are also located in this building.

**Memorial Hall Complex** houses the Department of Sport Management, the Physical Education Program, the Office of Sports Medicine and the 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 & Engineering.

**John R. Price Building** houses the offices of the dean of the College of Education, Health and Public Policy and the dean of the School of Graduate Studies and Research. 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, Assessment Office, Office of Testing, Office of Title III and DSU Alumni Association office.

**Optical Science Center for Applied Research Building**, a state-of-the-art facility completed in 2015, houses OSCAR laboratories and offices.

**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 rooms 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.

# ACADEMIC CALENDAR

FALL 2017 (201801)

July 5 (Wednesday)	Fall Payment Due Date
August 24 (Thursday)	Residence Halls Open for New Students Only
August 24-27 (Thursday-Sunday)	Welcome Days
August 25 (Friday)	Faculty & Staff Institute
August 26 (Saturday)	Residence Halls Open for Returning Students
August 28 (Monday)	Classes Begin @ 8:00am
August 28 (Monday)	Late Registration Begins
September 4 (Monday)	Labor Day (University Closed)
September 6 (Wednesday)	Last Day for Adding Classes
September 6 (Wednesday)	Last Day to Change Course(s) to Audit Status
September 6 (Wednesday)	Late Registration Ends
September 7 (Thursday)	Documentation for Non-Attendance Submission Begins
September 7 (Thursday)	Effective date for \$10 per drop processing fee
September 7 (Thursday)	Effective date for receiving a grade of "W" for dropped courses
September 7 (Thursday)	General Faculty Meeting
September 8 (Friday)	Academic Early Alert Begins
September 11 (Monday)	Documentation for Non-Attendance Submission Ends
September 14 (Thursday)	Convocation
September 29 (Friday)	Application & Audit for December and May Commencement Due
October 2-6 (Monday-Friday)	Midterm Evaluations Administered
October 5 (Thursday)	Last Day to Remove Incompletes
October 7 (Saturday)	Parent's & Family Day
October 8-15 (Sunday-Sunday)	Homecoming Week
October 9 (Monday)	Mid-Term Grades Due in Chairs' Offices
October 14 (Saturday)	Homecoming Game
October 16- November 3 (Monday-Friday)	Academic Advisement Period
October 21 (Saturday)	Fall Open House
October 30 (Monday)	Financial Aid SAP Appeal Due for Spring 2018
November 3 (Friday)	Financial Aid 60% Completion Date
November 6 (Monday)	Priority Pre-Registration
November 7-November 22 (Tuesday-Wednesday)	Pre-Registration for Spring & Summer
November 13-December 1 (Monday-Friday)	Fall Course Evaluations
November 14 (Tuesday)	Exit Interview for December Graduates
November 15 (Wednesday)	Last Day to Drop/Withdraw from the University
November 22 (Wednesday)	Residence Halls Close @ 8 pm
November 23-26(Thursday-Sunday)	Thanksgiving Recess
December 5 (Tuesday)	Spring Payment Due Date
December 7 (Thursday)	Last Day of Classes
December 8 (Friday)	Reading Day
December 11-15 (Monday-Friday)	Final Examinations
December 15 (Friday)	Winter Recess Begins (Students)
December 15 (Friday)	Residence Halls Close @ 8 pm
December 16 (Saturday)	December Commencement
December 18 (Monday)	Final Grades Due
December 19 (Tuesday)	New Student Orientation
December 23-January 1 (Saturday-Monday)	Winter Recess (University Closed)

# ACADEMIC CALENDAR

SPRING 2018 (201803)

December 5 (Tuesday)	Spring Payment Due Date
January 4 (Thursday)	Residence Halls Open for New Students Only
January 4-5 (Thursday-Friday)	Registration for New Students
January 4-6 (Thursday-Saturday)	Welcome Days
January 6 (Saturday)	Residence Halls Open for Returning Students at Noon
January 8 (Monday)	Classes Begin @ 8 am
January 8 (Monday)	Late Registration Begins
January 11 (Thursday)	General Faculty Meeting @ 11 am
January 15 (Monday)	Martin Luther King Jr. Day Observance (University Closed)
January 17 (Wednesday)	Late Registration Ends
January 17 (Wednesday)	Last Day to Change Courses to Audit Status
January 17 (Wednesday)	Last Day for Adding Classes
January 18 (Thursday)	Documentation for Non-Attendance Submission Begins
January 18 (Thursday)	Effective date for \$10 per drop processing fee
January 18 (Thursday)	Effective date for receiving a grade of "W" for dropped course
January 19 (Friday)	Academic Early Alert Begins
February 8 (Thursday)	Founders Day
February 12-16 (Monday-Friday)	Mid-Term Evaluations Administered
February 15 (Thursday)	Last Day to Remove Incompletes
February 19 (Monday)	Mid-Term Grades Due in Chairs' Office
February 26 - March 30 (Monday-Friday)	Spring Faculty Evaluations
February 26- March 23 (Monday-Friday)	Academic Advisement Period
March 5-9 (Monday-Friday)	Spring Break (MEAC)
March 16 (Friday)	Financial Aid 60% Completion Date
March 28 (Wednesday)	Last Day to Drop/Withdraw from the University
March 30-April 2 (Friday-Monday)	Easter Recess (University Closed)
April 3 (Tuesday)	Priority Pre-Registration
April 4-April 13 (Wednesday-Friday)	Pre-Registration for Fall
April 7 (Saturday)	Spring Open House
April 12 (Thursday)	Exit Interview for May Graduates Due
April 20 (Friday)	University Research Day
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 close @ 8 pm
May 7 (Monday)	Final Grades Due
May 7 (Monday)	Summer Payment Due Date
May 8 (Tuesday)	Assessment Summit
May 10 (Thursday)	General Faculty Meeting
May 12 (Saturday)	May Commencement
May 31 (Wednesday)	SAP Appeals Due for Fall 2019
July 5 (Thursday)	Fall Payment Due Date

# 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 Commission on Higher Education (MSCHE) 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 diploma from an accredited four-year school or senior high school. This must be evidenced by an official transcript. 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. Standardized college entrance exam scores are also required. Admission is not granted solely on the basis of grades and test scores, though they are heavily considered. The University takes a holistic approach in evaluating applications for admission. Community service, demonstrated leadership and special talent are also considered when evaluating applications for admission. Students who have earned a GED must meet transfer admission requirements for consideration.

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 concord score of 800 or better (critical reading and math sections combined) on the new redesigned SAT, 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 as well as meet the University's transfer admission requirements 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 conditionally 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 2.7 or better and SAT of 800 (M and CR) 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 will receive information in their acceptance package on how to register for the mandatory New Student Orientation. 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 \$100.00 is required for all new transfer students. Parents are encouraged to participate with their incoming student. There is a fee for each parent/guest that participates. Students will not be allowed to participate in New Student Orientation if they have not paid their registration fee.

Clearance for Enrollment:

All new students must satisfy the following enrollment criteria at the University:

- Attend New Student Orientation and register for classes.
- Submit official final high school transcript showing graduation, or official college transcript if applicable, to the Office of Admissions
- Submit completed health forms to Student Health Services
- Satisfy all financial obligations to the University

### **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 completed online at www.desu.edu/apply-now](http://www.desu.edu/apply-now). Applications are accepted on a rolling basis. For priority consideration:
    - Fall semester applicants: Priority consideration by February 1
    - Spring semester applicants: Priority consideration by November 1
    - Financial aid priority consideration deadline: March 15
- An official high school transcript;
- An official college transcript from each college attended if college work has been attempted;
- SAT or ACT test scores and
- Application fee of \$ 35.00.

**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 via the email address provided on the application, thus hindering the evaluation process.**

### **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 [www.desu.edu/apply-now](http://www.desu.edu/apply-now).
- Application fee of \$35.00.
- An official final high school transcript or GED scores (if 30 or more college level credits have not been earned)
- Official transcript(s) from all institutions of higher education attended
- SAT or ACT test scores if not transferring twelve (12) credit hours with a cumulative GPA of 2.0 or better, and a grade of at least "C" in each course in the twelve credit hours. Grades of C- will not transfer

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 may be given elective credit in the subject or generic elective credit.** Courses will be evaluated by the academic department 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.
- Transfer credit will not be awarded to remedial level courses (below college level) from previous institutions
- In instances where courses from other colleges or universities only partially fulfill general education requirements, students will need to make up the credit hours shortage in the same department.
- Students who are currently academically dismissed, on probation, suspended, or placed on probation for disciplinary reasons at other institutions are not permitted to enroll for a degree at Delaware State University. Transfer students must submit transcripts from every college or university that they have attended. Students should be prepared to submit course descriptions from previous institutions for courses not in our transfer credit matrix to ensure accurate articulation and transfer into DSU. Transfer students must earn their last 30 credit hours at Delaware State University.

### **Academic Recognition for Military Service**

A total of six (6) open credits will be awarded to active duty service members and veterans who have at least three years of honorable service. Veterans will submit their DD 214 (Member-4) as proof of honorable service. Active duty service members will submit any document that shows proof of three years honorable service. The Coordinator of Veterans Affairs will evaluate documents of proof for approval of credits.

## Application Procedures for Undergraduate International Admissions

International students are encouraged to begin the admissions process no later than ninety (90) 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 test scores of 800 on the SAT (math and critical reading combined), test scores of 880 or above on the 2016 redesigned SAT, 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 on the new internet-based TOEFL, or a 6.5 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 and meet transfer admissions requirements 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)) or the Educational Credential Evaluators (ECE) ([www.ece.org](http://www.ece.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 either: sealed or electronically sent directly 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 I-20 application packet and F-1 Student Financial Statement; 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 submit financial documents that show funds exist to pay at least the student's 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.

I-20 Application packet, F-1 Student Financial Statement and Affidavit for Room and Board should be submitted to: DSU, 1200 N, DuPont Highway, Office of International Affairs, Grossley Hall, Room 115 Dover, Delaware 19901. The I-20 Application Packet, F-1 Student Financial Statement and Affidavit for Room and Board documents can be found at (<https://www.desu.edu/academics/international-programs/resources-forms>).

## 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.

Residency falls under the Office of Records and Registration. You may wish to consult with the Office of International Affairs as well.

### **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.
- [I-20 Application Packet](https://www.desu.edu/academics/international-programs/resources-forms) (<https://www.desu.edu/academics/international-programs/resources-forms>)  
(submit packet to the Office of International Affairs)

### **Application for Student Visa**

The University issues an I-20 A-B Certificate of Eligibility form to students who qualify for admission. Students present the I-20 A-B, DSU acceptance letter, and financial 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-status” as an international student;
- An application for admission signed by the student;

- I-20 Application Packet and DSU International Student Transfer Form (<https://www.desu.edu/academics/international-programs/resources-forms>) (submit packet to the Office of International Affairs);
- 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 Office. However, if English is the official language of your country of origin, SAT and/or ACT test scores are acceptable. Delaware State University requires test scores of 800 on the SAT (math and critical reading combined), test scores of 880 or above on the 2016 redesigned SAT, 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 on the new internet-based TOEFL, or a 6.5 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 and meet transfer admissions requirements 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) undergraduate and six (6) graduate 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.

Residency falls under the Office of Records and Registration. You may wish to consult with the Office of International Affairs as well.

### **Online Application**

Prospective students are encouraged to apply online by visiting [www.desu.edu/apply-now](http://www.desu.edu/apply-now). 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 conducts walking 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. Tours are not given on Sundays, holidays or when the University is otherwise closed. Groups are asked to schedule tours at least two weeks in advance. Group tours must be accompanied by chaperones. One group chaperone must accompany every 20 students on a visit. 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, <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 form 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 Delaware tax return form from the previous year;
- A lease or mortgage agreement; and
- A Delaware State University 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.

Again, residency falls under the Office of Records and Registration.

## **Early Bird Program**

The Early Bird Program is for juniors and seniors attending high school in the State of Delaware who wishes 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. Early Bird students must reapply each year and submit an updated high school transcript each semester the wish to participate in the program. All applications should be completed online with 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 Office of Admissions. All other returning students should contact the academic department chairperson in the major declared at the time of voluntary separation for academic

advisement and registration procedures. For those returning from involuntary separation, the dean of your college should be contacted. If undeclared at the time of separation, you should contact Integrated Academic Support & Advisement Office. Returning Delaware State University students who have attended other colleges since their last enrollment at Delaware State University must have official copies of the transcript(s).

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

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

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

New freshmen who 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 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 the cumulative grade point average agreed upon by both Delaware State University and the transfer community 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 (SAT, ACT) prior to transfer to Delaware State University.
- Additional requirements will be advised upon in the corresponding articulation agreement with the transfer community college.
- 

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 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 31 if your final semester is spring or September 15 if your final semester is fall.
- Comply with the appropriate enrollment deadlines determined by the University. Financial aid forms must be submitted by March 15 for the fall semester and October 1 for the spring semester. If you wish to live on campus, the application form and deposit must be received by March 30 for the fall semester and November 1 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:

Nursing	AAS	Nursing	B.S.N.	2015	2020
Human Services	AAS	Social Work	B.S.W.	2013	2018
Criminal Justice	AAS	Criminal Justice	B.A.	2013	2018
Mathematics Secondary Education	AAS	Mathematics Education	BS	2016	2021
Accounting	AAS	Management: General Management Concentration - Accounting Minor	B.S.	2015	2020
Computing and Information Science	AAS	Computer Science	B.S.	2015	2020
Computing and Information Science	AAS	Information Technology	B.S.	2015	2020
Communications	AAS	Mass Communications - Convergence Journalism	B.A.	2014	2019
Electronics Engineering Technology - Transfer Option	AAS	Electrical and Electronics Engineering Technology	B.S.	2014	2019
Production Agriculture	AAS	Agriculture, General Agriculture Concentration	B.S.	2015	2020
Business Administration Transfer	AAS	Accounting	B.S.	2015	2020
Business Administration Transfer	AAS	Business Administration with a Concentration in Finance	B.S.	2015	2020
Food Safety	AAS	Food & Nutritional Sciences-Food Science Option	B.S.	2017	2022

### 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 and 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. All financial obligations must be satisfied prior to enrollment by the published deadline. Students are not permitted to move in to the residence hall without satisfying these obligations. Class registration will be removed if financial obligations are not met.

## **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 2017

### **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

The General Education core courses are those 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-101	Lifetime Fitness and Wellness	2
ENGL-200	Speech	3
GLOB-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.**

### GLOB-395. GLOBAL SOCIETIES

**3:3:0**

The course is designed to develop people 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**

The General Education Breadth Areas are those categories of courses from which students must choose a designated number of credit hours in order to provide the well-roundedness of a liberal education and best prepare themselves for the varied demands of the rapidly-changing world.

### **Breadth Area Definitions and Student Learning Objectives**

The General Education Committee has approved a set of definitions and student learning objectives (SLO) for courses that are part of the Breadth requirements of the General Education. These SLO will form the basis for assessment rubrics that will be developed in the near future. All Breadth courses should list the appropriate SLO on their syllabus and address how their course learning objectives relate to these SLO.

#### **Literature**

- Literary study explores how writers from a vast array of cultural traditions have used the creative resources of language - in fiction, poetry, drama, and non-fiction prose – to explore the entire range of human experience. The practice of reading literary texts exercises the imagination, cultivates a capacity for understanding ambiguity and complexity, and instills a sensitivity to the diversities of human existence. Literary study builds skills of analytical and interpretive argument, helping students become creative and critical writers.
  1. Analyzes issues and rhetorical strategies used in influential works of literature.
  2. Recognizes the literary and stylistic devices, contextualities, and literal and figurative uses of language.
  3. Articulates how genre generates literary criticisms and theories, shapes meanings, and regulates form and structure.
  4. Analyzes texts with an awareness and curiosity of other perspectives.
  5. Engages with ideas through the use of quotations, paraphrases, and summaries. Documents and cites sources correctly.
  6. Verbalizes analysis in oral communication; discusses cogently and listens thoughtfully and respectfully to others’ ideas; and prepares, organizes, and delivers engaging oral presentations.

#### **History**

- History helps us understand people and societies. It creates our identity as citizens. It allows us to test our own moral understanding against the complexities people have faced in the past. More practically, it teaches us to assess evidence and to critically assess conflicting interpretations of the past and past examples of change in order to inform our current understanding of the societies in which we live (adapted from Peter Stearns, AHA).
  1. Utilize information about the key events, figures and broad movements of a historical period to create a coherent picture of this period.
  2. Recognize and articulate interpretations of the changing political, economic and social systems and structures that help to define a historical period.
  3. Demonstrate how the complexity, diversity, and plurality of American society today can be better understood through the exploration of its and other societies’ pasts.
  4. Utilize secondary and primary materials to critically assess conflicting interpretations of the past.
  5. Draw on historical perspectives to evaluate contemporary problems/issues.

## **Natural Science**

- The natural world is described by a series of laws and theories which can be tested and understood by experimentation.
  1. Develops appropriate hypotheses or research questions based on a solid understanding of subject area concepts.
  2. Predicts possible outcomes of experimental procedures that are based on a solid understanding of subject area concepts.
  3. Constructs representations of experimental data that are appropriate and accurate.
  4. Draws conclusions about experimental data that are valid and consistent with scientific theories, models, laws, mechanisms, and theories.

## **Mathematics**

- Examination of the way in which the world displays order, pattern, and relation using formulas, quantity and numbers.
  1. Translates reality into mathematical form. Interprets information presented in mathematical form in a sensible and logical way while recognizing and making sense of limitation.
  2. Expresses mathematics in various forms (written, graphical, symbolic, oral) and provides mathematically correct explanations on their connectedness.
  3. Performs accurate and precise calculations.
  4. Solves problems in a variety of ways.
  5. Makes clear mathematical arguments to express reasoning/reasonableness and draw conclusions.

## **Social Science**

- Social Sciences accomplish “The scientific study of social, cultural, psychological, economic, and political forces that guide individuals in their actions.” (from Hunt and Colander 2015).
  1. Describes the key historical and contemporary concepts and theoretical perspectives underlying social sciences philosophies.
  2. Explains the various, multifaceted conceptual contexts that differentiate specific social science disciplines.
  3. Evaluates and analyzes how social systems influence the diversity of human beliefs, values, norms, traditions, and behavior around the world.
  4. Evaluates how society works at different scales – individual, family, community, government/national and global
  5. Analyzes the importance and impact of societal scales for citizen participation in, or influence of, decisions in diverse societies around the world.

## **Arts and Humanities**

- The humanities and the arts examine the world through many different lenses that help students interpret and think critically about creative and cultural expressions of what it means to be human.
  1. Recognizes diverse forms of cultural expression as reflections of the human experience.
  2. Describes the major themes, contributors and genres within a given form of cultural expression.
  3. Identifies the fundamental techniques of a given form of cultural expression.
  4. Applies knowledge of historical, philosophical, social, and cultural influences to understanding a given form of cultural expression.
  5. Demonstrates awareness of the ways in which culture shapes ethical views and critically evaluate those views.
  6. Appropriately and accurately implements various technical characteristics of a given form of cultural expression.

**Minimum grade requirements for Breadth courses vary by major program. See curriculum sheet.**

<b>Breadth Area</b>	<b>Minimum Credits</b>
Literature	3
History	3
Natural Science with Laboratory	3
Mathematics	3
Social Sciences	3
Arts/Humanities	6

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. Certain honors courses or colloquia may satisfy breadth area requirements. Consult with the director of General Education for specifics.

**General Education Program Fall 2009  
Breadth Course List as of 6/22/2017\***

**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 (MC)
HIST-102	World History From 16 <sup>th</sup> Cent. (MC)
HIST-201	American History To 1865
HIST-202	American History From 1865
HIST-203	African Am History To 1865 (AA)
HIST-204	African Am History From 1865 (AA)
HIST-205	Themes in World History (MC)

**Literature (Choose one)**

ENGL-201	World Literature I (MC)
ENGL-202	World Literature II (MC)
ENGL-205	African-American Lit I (AA)
ENGL-206	African-American Lit II (AA)

**Social Science (Choose one)**

GEOG-201	World Regional Geography (MC)
MGMT-201	Principles of Macroeconomics
POLS-103	Intro. To Political Science
POLS-200	Amer. National Government
PSYC-201	Introduction to General Psych (W, SE)
SCCJ-101	Introduction to Sociology (MC)
SCCJ-206	Cultural Anthropology (MC)
WMGS-201	Intro to Women's & Gender Studies (MC)

### **Arts/Humanities (MUST 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-Am Art History (AA)
ART-317	Art History I
ENGL-113	Introduction to Theatre
MUSC-100	African-American Music (AA)
MUSC-101	Introduction to Music
PHIL- ____	All Philosophy courses without pre-requisites
____- ____	All World Languages (MC)
WMGS-230	Intro to Feminist Philosophy
WMGS-310	Gender Representation In Visual Culture (MC)
WMGS-420	Women and Men of Classical Letters

### **Mathematics (Choose One)**

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

### **Natural Science with Laboratory (Choose One)**

ASTR-101	Descriptive Astronomy
AVAI-211	Meteorology
BIOL-100	Introduction to Biology
BIOL-103	Human Biology
BIOL-105	Basic Ecology
BIOL-107	Human Heredity
BIOL-110	Essential Topics in Biology (Education majors ONLY)
BIOL-111	Human Diseases
BIOL-101	General Biology (Science majors ONLY)
CHEM- ____	All Chemistry courses without CHEM pre-requisites
HMEC-102	Concepts in Nutrition
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 (Physics & Engineering majors) only)
PHYS-211	Fundamentals of Physics I
PSED-207	Earth/Space Science

### **TOTAL CREDITS FOR BREADTH COURSES: 21**

**\*Some honors courses may satisfy Breadth or A-t-C requirement. Please contact the director of General Education for approval before taking the honors course as a Breadth or A-t-C course.**

(AA) indicates that a course also satisfies the African-American Experience A-t-C requirement

(MC) indicates that a course also satisfies the Multicultural A-t-C requirement

(SE) indicates that a course also satisfies the Self-evaluation A-t-C requirement

(W) indicates that a course also satisfies the Wellness A-t-C requirement

### **SENIOR CAPSTONE EXPERIENCE**

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**

#### **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)**

Graduates from Delaware State University's undergraduate programs are expected to be effective communicators, critical thinkers, and problem-solvers as integral parts of the world's pluralistic and global societies. To that end, critical concepts must be infused throughout general education and the curricula of the academic programs. The Across-the-Curriculum components provide these critical elements of a complete education. Mastery of Across-the-Curriculum outcomes is demonstrated through various assessments. The Across-the-Curriculum concepts are integrated throughout the General Education Program and major program curricula in order to produce the desirable learning outcomes. 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 be able to identify and utilize credible information. 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 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. Multicultural

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)**

In all areas, the program curriculum may list specific courses that satisfy A-t-C requirements. The specific courses listed below are **in addition** to these program-specific courses. A single course may satisfy A-t-C, Breadth and/or program requirements. **Core courses may NOT be used to satisfy A-t-C requirements.**

#### **African-American Experience (One required)**

Any breadth courses with the AA symbol

Any courses specified by the Program – Consult Curriculum

#### **Multicultural (Two required)**

Any breadth courses with the MC symbol

Any courses specified by the Program – Consult Curriculum

MGMT-440      International Management

WMGS-310      Gender Representation in Visual Culture

#### **Reading/Speaking/Listening Across the Curriculum (One required)**

Any courses specified by the Program – Consult Curriculum

**Self- Evaluation (One required)**

Any courses specified by the Program – Consult Curriculum  
Any breadth courses with the SE symbol

**Wellness (One required)**

Any courses specified by the Program – Consult Curriculum  
Any breadth courses with the W symbol  
WMGS-220      Dimensions of Women’s Health

**Information Literacy - (One required)**

Any courses specified by the Program – Consult Curriculum

**Computer Competency (One required)**

Any courses 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 (One required)**

Any courses specified by the Program – Consult Curriculum  
ENGL-211      Creative Writing  
ENGL-311      Advance Composition

**Quantitative Reasoning (One required)**

Any courses specified by the Program – Consult Curriculum  
MTSC- \_\_\_\_      A second course in the Mathematics Department  
FIN-102      Money Matters

**Global Issues (One required)**

Any courses specified by the Program – Consult Curriculum  
MGMT-440      International Management

**Critical Thinking/Problem Solving Issues (One required)**

Any courses specified by the Program – Consult Curriculum  
PHIL-101      Critical Thinking

**\*Some honors colloquia may satisfy Breadth or A-t-C requirements. Please contact the director of General Education for approval before taking the honors course as a Breadth or A-t-C course.**

# OFFICE OF RECORDS & REGISTRATION

## 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; some colleges will only permit registration and changes to registration with advising. To register online, students may visit the University’s myDESU website at [my.desu.edu](http://my.desu.edu)

Students may view their unofficial transcripts, as well as student accounts and financial aid information, at the [myDESU](http://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](http://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 (16 weeks). 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 (GPA.). 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 course is offered must approve grade changes or the school in which the course is offered 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 Academic Enrichment courses. 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	Unofficial Withdrawal/Fail
I	(Not Computed in GPA)	Incomplete
W	(Not Computed in GPA)	Withdrew
WA	(Not Computed in GPA)	Administrative Withdrawal
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
F*	(Not Computed in GPA)	Failure in Developmental courses
TR	(Not Computed in GPA)	Transfer course

## Transfer of Credit Policy

### Matriculating Student

**Note: Transfer credit will not be awarded to developmental level courses (below college level)**

Prior to a student taking some courses at another institution, he or she needs to have the requested courses at the other institution properly evaluated, vetted and signed by his or her department chair and the chair(s) of the department(s) offering the specific subjects of courses requested at Delaware State University on a "Approval to Transfer Credits Form."

The requested courses are to be evaluated by the academic department chairs to determine if or how they might meet the requirements of the DSU General Education Program or of the major program or minor program; they also must be equivalent to respective courses or generic electives at Delaware State University to be transferrable.

**If the student is about to graduate and is in his or her last 30 hours at Delaware State University, he or she will also need to have the dean of his or her college sign the form. Then the student must have the signed copy of the "Approval to Transfer Credits Form" submitted to the Office of Records and Registration before his or her enrollment at the other institution. Once the course is taken and passed, the student needs to request an official copy of the transcript from the other institution to be sent to the Office of Records and Registration in a sealed envelope.**

- If the courses are taken 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 Records and Registration. 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 Records and Registration 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. A World Education Service (WES) evaluation will not be required for international transcripts, if they meet all of the following criteria:
  1. They must be translated in English.
  2. They must have an official seal.
  3. The requested courses at the foreign institution need to have been properly evaluated and vetted by the advisor/chair/dean on the "Approval to Transfer Credits Form," and the signed "Approval to Transfer Credits Form" must have been submitted.
  4. 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.
  5. Credit will not be granted for correspondence courses.
  6. Courses with grades less than "C" will not be accepted as transfer credit. Course grades of C- will not transfer.
  7. Grades received in courses taken at other institutions are not calculated in Delaware State University cumulative GPA; only the credits may be transferred.
  8. Transfer credit will not be awarded to developmental level courses (below college level) from previous institutions

## Undergraduate Challenge Exam Policy

Delaware State University (DSU) recognizes that relevant college-level learning can happen outside the classroom. In acknowledgement of this, academic credit at DSU may be granted for successful performance on a *challenge exam*. The following are the *minimum* guidelines. At their sole discretion, Departments may adopt policy that is more stringent or has greater limitation, including outright prohibitions of challenge examinations.

### General Guidelines

1. A student may sit for a challenge exam only in a course in which s/he has not yet registered. Students may not receive credit by challenge exam either for courses already completed.
2. Students must be registered for at least one (1) credit hour in the semester in which a challenge exam(s) is taken, but should not register for the class(es) they are challenging.
3. Students may receive a maximum of eight (8) credit hours or two (2) classes through challenge exams.
4. Challenge examinations may not be requested for courses for which standardized credit courses already exist (e.g., CLEP.)
5. The total number of credit hours awarded through challenge exams is limited to thirty (30).
6. A particular course may only be challenged once.
7. The student may not retake the challenge exam.
8. Students are expected to prepare for challenge examinations on their own time.
9. Credit for successful performance on a challenge exam will be treated like transfer credit; no grade will be awarded.
10. Challenge examinations may not be requested in the student's final 30 hours.
11. Experiential courses may not be challenged (e.g., internships, practica, student-teaching, lab-based courses.)
12. Capstone courses may not be challenged.
13. Courses with lower-level content than the courses successfully completed by the student may not be challenged. For example, a student who has received credit for "Calculus I" cannot take a challenge exam for "Survey of Math I."
14. Credit from challenge examinations counts toward the academic load of the semester the test is taken.
15. Application for the challenge credit will not be allowed if the student has previously received a grade other than "W" in the course
16. The dean and the appropriate chairperson make the final decision on the eligibility to challenge a course

### Test Guidelines

1. For purposes of ensuring adequate proficiency in every area covered by a course, challenge examinations will *comprehensively* test course content.
2. Credit may only be earned by *demonstrations* of knowledge or skills, not by previous training/experiences alone.
3. Test performance will be evaluated by the chairperson of the department and one person who regularly teaches the course.
4. A minimum score of 75% on a challenge exam is required for course credit; however, departments and/or colleges may set higher requirements at their sole discretion.

## **Procedures**

1. Application for challenge credit is made on forms available in the Dean's Office in the College of the student's major. Use one form for each course challenged, unless multiple courses are in the same department.
2. A Request for Credit Form must be completed before the third week of the semester. This form should be submitted to the department which houses the course being challenged. The form will include:
  - a. Name and course number of the course being challenged
  - b. A brief description of where and how knowledge of the course was obtained.
  - c. Signatures from the student, the academic advisor, the chair and dean of the student's major and the chair and dean of the course being challenged.
  - d. A copy of the student's most recent transcript
3. Students will pay for challenge examination credits at the same rate as other course credits. An additional fee of \$50 per credit will be charged and must be paid prior to taking the challenge exam.
4. Students will need to take the receipt from Student Accounts to the test administrator prior to taking the examination. A copy of the receipt will also be forwarded to the Office of the Registrar.
5. The test examiner grades the challenge exam and complete a challenge grade form which then is forward to the department chair, the dean and then to the Office of the Registrar. Once all the above information is received in the Office of the Registrar, the credits will be recorded on the student's transcript.
6. All challenge examinations for a given semester will be administered on reading day, before final examinations.

## **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 following semester (i.e., for fall, the following semester is spring; for spring, the following semester is fall) unless prior arrangements are made in writing with the instructor, with a copy sent to the Office of Records and Registration. 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.

## **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 offices of the provost and of the vice-president for Academic Affairs issue 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 during the first week of classes in order to verify participation in the class. Failure to verify participation in a class before the end of the first week of classes will result in the student being classified as a "no show" for the course. All tuition and fees for the course will be refunded and no grade will be issued.

## **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.my.desu.edu](http://www.my.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 (Add Slip) from their academic department.
2. Complete the student and class information portions 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 add is the date the slip is processed in the Office of Records & Registration.

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 processed in the Office of Records & Registration. Courses dropped prior to the end of the Late Registration Period will not appear on the student's academic 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 processed in the Office of Records & Registration. The dropped course will appear on the academic transcript with a grade of "W" for "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(s) will appear on academic transcript with a grade of "WA" for "Administrative Withdrawal."

## Withdrawal from the University

A withdrawal from the university is the process which includes the removal from all classes within a specific semester. 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.
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 to [registrar@desu.edu](mailto:registrar@desu.edu).
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. After the 5-day grace period, if the student has not requested to stop the withdrawal process, the registrar will remove all classes effective the date the withdrawal paperwork was submitted.

### 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 beyond the official withdrawal deadline for a given 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 professional advisor in their college and 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.

### **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. A student on probation will be allowed to take no more than thirteen (13) credit 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. 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 Office of Admissions 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.

### **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 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**

An official copy of a student's academic record is released to a third party upon the written and signed consent 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 for each transcript requested except if you are a matriculating student you are entitled to five (5) free transcripts. A request for a transcript will normally be processed within 3-5 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.

**Please Note: Unofficial transcripts are not printed in Office of Records & Registration. Please view and or print your unofficial transcript through the [Banner Self-Service portal](#).**

## 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 an "I" grade, "Q" grade 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 participate in Commencement exercises in **DECEMBER OR MAY** should file an application and audit for graduation in the Office of Records and Registration or online by **September 30**. Students who intend to graduate in the **SUMMER ONLY** should file an application and audit for graduation in the Office of Records and Registration or online by **July 15**. 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 conferral date: December 15 for fall, May 15 for spring, and August 15 for summer.

The University's annual Commencement exercises are held in December and May. All summer and December graduates are eligible to participate in the graduation exercises in December and all others in May; students can only participate in one commencement.

Diplomas and a complimentary transcript will be mailed 2-4 weeks with the conferral date. Any student who fails to graduate for the applied semester of graduation 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 Commencement exercises **only** if they satisfy the following conditions:

1. File the application and audit for graduation by the application deadline (see application calendar).
2. Enroll in and successfully complete all academic requirements for graduation prior to Commencement.
3. Satisfy all financial obligations to the University.
4. Complete the Office of Financial Aid Exit Counseling.
5. Resolve all "I" and "Q" grades and "in progress" from transcript.

# STUDENT ACCOUNTS

## Student Expenses

All of the fees and charges shown in this section are for **2017-2018** 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.

## SUMMARY OF UNDERGRADUATE FEES

### Full Time Summary of Fees

	Fall	Spring	Academic Year
<b>In-State Commuter</b>	\$3,519.00	\$3519.00	\$7,038.00
<b>Out-of-State Commuter</b>	\$8,037.00	\$8,037.00	\$16,074.00
<b>Student Health Insurance Fee Waiver Request Online <a href="http://www.firststudent.com/school_page/delaware-state-university/home-delaware-state-university/">http://www.firststudent.com/school_page/delaware-state-university/home-delaware-state-university/</a></b>	\$377.00	\$377.00	\$754.00
<b>Mandatory Fees Will be Added to Tuition Per Semester: Student Complex Fee, Student Activity Fee and Technology Fees:</b>	\$415.00 Student Complex \$225.00 Student Activity \$135.00 Technology Fee \$55.00	\$415.00 Student Complex \$225.00 Student Activity \$135.00 Technology Fee \$55.00	\$830.00
DSU Living Learning Commons	\$3,995.00	\$3,995.00	\$7,990.00
Tubman/Laws	\$3,488.00	\$3,488.00	\$6,976.00
Evers/Jenkins	\$3,488.00	\$3,488.00	\$6,976.00
Warren Franklin/Wynder	\$3,745.00	\$3,745.00	\$7,490.00

## BOARDER MEAL PLAN OPTIONS

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

	Fall Semester	Spring Semester	School Year
7 – Day All Access Plus \$150 Flex	\$2,118.00	\$2,118.00	\$4,236.00
5 – Day All Access Plus \$150 Flex	\$2,040.00	\$2,040.00	\$4,080.00
Traditional 19 PLUS \$100 Flex Dollars	\$2,039.00	\$2,039.00	\$4,078.00
Traditional 15 PLUS \$100 Flex Dollars	\$1,971.00	\$1,971.00	\$3,942.00
Traditional 10 PLUS \$150 Flex Dollars	\$1,808.00	\$1,808.00	\$3,616.00

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

	<b>In-State Student</b>	<b>Out-of-State Student</b>
Per Credit Hour	\$280.00	\$638.00
Technology Fee	\$55.00	\$55.00
Registration Fee	50.00	\$50.00
Student Center Complex Fee	\$225.00 (Pro-rated credit hours)	\$225.00 (Pro-rated based on total of 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 Semester</u></b>	<b><u>Per Year</u></b>
One Bedroom/One Bath	\$6,384.00	\$12,768.00
Two Bedroom/Two Baths	\$5,244.00	\$10,488.00
Two Bedrooms/One Bath	\$4,722.00	\$9,444.00
Four Bedrooms/Two Baths	\$4,542.00	\$9,084.00
Two Bedrooms/One Bath	\$4,320.00	\$8,640.00

**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	\$2,039.00	\$4,078.00
Traditional 15 PLUS \$100 Flex Dollars	\$1,971.00	\$3,942.00
Traditional 10 PLUS \$150 Flex Dollars	\$1,808.00	\$3,616.00

**UNIVERSITY COURTYARD APARTMENTS - 12 MONTH LEASE**

	<b><u>Per Semester</u></b>	<b><u>Per Year</u></b>
Four Bedrooms/Two Baths	\$4,500.00	\$9,000.00
Two Bedrooms/Two Baths	\$5,244.00	\$10,488.00

## Estimated Fees

Advance Room Deposit	\$200.00	Tuition Payment Plan Enrollment Fee Per Semester	\$35.00
		Tuition Payment Plan Late Fee	\$35.00
		Tuition Payment Plan Return Payment Fee	\$30.00
Application Fee	\$35.00		
Course Overload Fee (over 19 credit hours) Per credit hour In-state	\$280.00	University Courtyard & University Village Non-Refundable Application Fee (\$100.00) and Deposit (\$300.00)	\$400.00
Per credit hour Out-of-state	\$638.00		
Distance Education Fee (per course)	\$35.00	Vehicle Registration Fee (per year)	\$70.00
Drop Fee (per drop slip)	\$10.00	SMARTCARD ID Damage FEE	\$25.00
Failure to Pre-register Fee	\$50.00	SMARTCARD ID Replacement FEE	\$50.00
Undergraduate Graduation Fee	\$175.00	Student Activity Fee (Full-Time, pro-rated based on credit hours)	\$135.00
Late Registration Fee	\$50.00	Student Center Complex Fee (pro-rated based on total credit hours)	\$225.00
Non-Payment Fee	\$150.00	Student Teaching Fee	\$150.00
Overdue Library Fees (per day)	\$1.00	Technology Fee (per semester)	\$55.00
Returned Check Fee	\$35.00	Transcript Fee	Varies
Reinstatement Fee	\$150.00	Tuition ONLY (per semester) In-State	\$3,519.00
Senior Citizens Registration Registration Fee	\$50.00	Out-of-State	\$8,037.00
Technology Fee	\$55.00		
Wellness Center Fee (pro-rated)	\$225.00		

## 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 5 for the fall semester, December 5 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 made by Visa, MasterCard, debit card (including MAC) and check should be submitted online through QuikPAY. Payments in cash, certified/cashier's check or Discover card 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.

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

- Go to: my.desu.edu
- Select: "QuikPAY" icon
- In the "Login as Student Box"
- Enter: Student ID & PIN Number
- Click: Login
- Click: "Yes, Continue to NelNet *QuikPAY*"
- Select: Make a payment
- Click: "Pay" for the account you are making a payment for
- Select: Term from the drop down box
- Enter Payment Amount
- Select: Payment Method from the drop down box
- Click: Continue
- Provide Information: Complete your credit card, bank information or both (must use the option you choose above)
- Click: Confirm to submit your payment
- You will receive an email confirmation for your payment.

All authorized third-party documentation such as Military Tuition Assistance, Vocational Rehabilitation, Veterans 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 financial 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.

### **Non-payment 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.

### **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 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 Fee**

All full-time registered students are automatically enrolled in a health insurance plan that covers sickness and injury. If the student would like for the fee to be removed from his or her student account, the student must waive the insurance by visiting [http://www.firststudent.com/school\\_page/delaware-state-university/home-delaware-state-university/](http://www.firststudent.com/school_page/delaware-state-university/home-delaware-state-university/).

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 **\$9,586.00**. 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 \$3,255.00 - \$9,586.00 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 is pleased to offer you the Tuition Payment Plan, administered by NelNet Business Solutions®. The Tuition Payment plan is an interest-free alternative to paying each semester's (Fall, Spring, Summer I or Summer II) tuition and expenses in full prior to the fall term (payment due July 5), the spring term (payment due December 5) or summer sessions (Payment due upon enrollment).

### **Enroll in the Tuition Payment plan for each semester and get these great benefits:**

- Manageable Payments – Spread your payments over 6,5,4,3, or 2 months beginning May 23 for the fall semester and October 23 for the spring semester.
- No Interest Payments – The Tuition Payment plan is interest free. It can be used on its own or in conjunction with loans, grants and/or scholarships.
- MyFacts – 24-hour access to manage your account via Web.
- Convenient Online Statements – You will receive your statements via email each month.
- Automatic reoccurring monthly payments via ACH or credit card (includes debit cards) processed on the 5th of every month.
- 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 pre-registration 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, one of 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 students' Delaware State University-issued email address who 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 25<sup>th</sup> 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](#).

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. Students are encouraged to monitor their student account regularly to view changes in charges and payments made to the student account.

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 8:30 a.m. to 4:00 p.m. Monday through Friday.

The following services are available to students currently enrolled at Delaware State University:

1. Payment can be made on a student's account by cash, certified/cashier's check or Discover card.
2. All student paychecks can be obtained from the Cashier's Office between the hours of 10:00 a.m. and 3:00 p.m. on payday.
3. All payments, except for cash, cashier's/certified checking and Discover card payments, must be made online at [my.desu.edu](http://my.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 Martin Luther King Jr. Student Center and the William C. Jason Library 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 & Security 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:

DSU Living and Learning Commons	\$200.00
Traditional Halls	\$200.00
University Village and Courtyard Apartments – Security deposit	\$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 stand-by 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** during the spring semester of the academic year. **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 5 for the fall semester and December 5 for the spring semester or must have made satisfactory financial arrangements with the Office of Student Accounts (by enrolling in the Tuition Pay Plan).

Students who do not submit payments by the due date must satisfy their financial obligation with the Office of Student Accounts for clearance to obtain their 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 hall 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. 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 request a meal plan through the commuter meal plan website via [my.desu.edu](http://my.desu.edu). Commuter meal plans are available at current costs. Please refer to the Summary of Undergraduate Fees for an updated commuter fee schedule. Fees are subject to change.

- Go to: [my.desu.edu](http://my.desu.edu)
- Click: "Commuter Meal Plan"
- Click: "Request"
- Select: Correct Term
- Enter ID & PIN Number (Uppercase "D")
- Select the appropriate meal plan
- Click Login

### **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 (for freshmen), or within fourteen (14) days after the credit balance appears on the student account during the semester. Credit balances that are the result of a credit card payment may be transferred back to credit card if the credit appears within 90 days of the payment. 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. Student refunds will be sent as direct deposit once the student successfully enrolls in Direct Deposit by following the steps below:

- Go to: [my.desu.edu](http://my.desu.edu)
- Click: "QuikPAY"
- Enter: Student ID & PIN Number
- Click: Login

- Click: "Yes, Continue to NelNet QuikPAY"
- Click: Direct Deposit
- Enter your banking information
- Click: Add

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:

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

1. All withdrawals from the University are initiated in the Office of Records and Registration.
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. After the 5-day grace period, if the student has not requested to stop the withdrawal process, the registrar will remove all classes effective that date the withdrawal paperwork was submitted.

### **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 beyond the official withdrawal deadline for a given 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:

- 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.
- The dean submits his or her recommendation to the provost and vice president for Academic Affairs.
- 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.

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:

**Please see the withdrawal refund schedules below.**

**Period from the First Day of Instruction for fall/spring semester(s)**

Period from the First Day of Instruction	Refundable Tuition	Percentage Fees
Pre-registration to Last Day to Add Classes	100%	100%
Second Week	80%	0%
Third Week	60%	0%
After Three Weeks	0%	0%

**Period from the First Day of Instruction for summer session(s)**

Period from the First Day of Instruction	Refundable Tuition	Percentage Fees
Pre-registration to Last Day to Add Classes	100%	100%
Six Days or less	80%	0%
Nine Days or less	60%	0%
After Nine Days	0%	0%

**Withdrawal Refunds**

Students should secure a Withdrawal Form from the Office of Records and Registration located on the first floor in the Administration building. Recipients of Title IV funds must complete an exit interview.

\*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, Direct Subsidized Stafford Loan, or a Direct 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**

Students' housing/meal assignments and registration 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 "Nonpayment Fee" of \$150.00 and a "Reinstatement Fee" of \$150.00 for each semester in which the registration housing/meal assignments are removed. Failure to pay the non-payment fee & reinstatement fee will prevent you from receiving all University services. Students will have to follow the reinstatement procedures provided by the Office of Student Accounts for registration, room and board.

# 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) beginning October 1 for the following academic year. The FAFSA priority filing deadline is on March 15 of each year. Applicants must include Delaware State University's school code 001428 when completing the FAFSA

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, grant, loan and employment, in various combinations.

For an in-depth explanation of financial aid awards and the financial aid process, please read the "Financial Aid Award Guide" on Delaware State University's web site at [www.desu.edu/financialaid](http://www.desu.edu/financialaid). The guide can be found under the "Financial Assistance" section on the "Financial Aid Forms and Publications" page.

## Satisfactory Academic Progress

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**

<u>Hours Attempted</u>	<u>Cumulative Grade Point Average</u>
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 120 credit hours, the limit for maximum attempted hours would be 180. 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 and have a cumulative GPA of at least 2.0 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 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 while the borrower is enrolled at least half time as a matriculated student 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.

Stafford Loan Annual Maximums			
Year in School	Dependent Undergraduate	Independent Undergraduate*	Graduate or Professional Student**
Freshman (0-29 earned credit hours)	\$5,500 <i>(maximum of \$3,500 can be subsidized)</i>	\$9,500 <i>(maximum of \$3,500 can be subsidized)</i>	\$20,500 <i>(unsubsidized only)</i>
Sophomore (30-59 earned credit hours)	\$6,500 <i>(maximum of \$4,500 can be subsidized)</i>	\$10,500 <i>(maximum of \$4,500 can be subsidized)</i>	\$20,500 <i>(unsubsidized only)</i>
Junior & Senior (60+ earned credit hours)	\$7,500 <i>(maximum of \$5,500 can be subsidized)</i>	\$12,500 <i>(maximum of \$5,500 can be subsidized)</i>	\$20,500 <i>(unsubsidized only)</i>

Maximum loan debt from Stafford loans at graduation	\$31,000 <i>(no more than \$23,000 may be in subsidized loans)</i>	\$57,500 <i>(no more than \$23,000 may be in subsidized loans)</i>	\$138,500 <i>(no more than \$65,000 may be in subsidized loans disbursed prior to July 1, 2012)</i> **Graduate debt includes loans received as an undergraduate.
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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) by March 15 for the fall semester and by 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 \$5,500 per year, but may not borrow at the next level (\$6,500 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. Students must complete the Free Application for Federal Student Aid to determine Pell Grant eligibility. 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 the highest financial need as determined by the FAFSA. 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.

### **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: Aid for Needy Students is a grant for state residents enrolled full-time in a degree program at a Delaware college or university. Variable awards will not exceed tuition, fees and books. 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.

## **Inspire Scholarship**

The Inspire Scholarship is available to Delaware high school graduates with excellent credentials to attend Delaware State University. The intent of this program is to offset the cost of tuition, thereby increasing the number of Delawareans who attend college and complete degree programs. The scholarship program is subject to available funds appropriated by the Delaware General Assembly. Inspire scholarship recipients must continue to make excellent academic progress toward a degree and must complete at least ten hours of community service per semester.

The Inspire scholarship can be renewed for two years if students maintain continuous full-time enrollment, maintain a cumulative GPA of 2.75 or higher, complete 20 hours of community service per year, and have no felony convictions. Inspire awards are \$3,000 per academic year.

### **Eligibility requirements:**

- Be regularly admitted and enroll in the fall semester immediately following graduation from a Delaware public or non-public high school
- Earn a minimum cumulative GPA of 2.75 or higher on a 4.0 scale, as indicated on the student's official high school transcript
- Complete the FAFSA and accept all forms of financial aid for which the student is eligible, except for loans
- Have no felony convictions
- Complete 10 hours of community service, as defined by the institution, each semester at DSU

## **Returning and Transfer Student Scholarships**

The application for the Returning and Transfer Student Scholarships is on the DSU website available beginning early January. 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 complete the scholarship application by publicized priority date, and complete the Free Application for Federal Student Aid.

## **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.

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

FAFSAs are transmitted electronically from the Department of Education to the Office of Financial Aid. 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 (CARS) was established July 1, 2000. CARS promotes and sustains Delaware State University's land-grant mission of excellence in teaching, research and extension by emphasizing faculty professional development and scholarly work, and student training for high-tech STEM careers, and graduate and professional studies.

## DEPARTMENT OF AGRICULTURE & NATURAL RESOURCES

**Chair:** Dr. Richard Barczewski

**Professors:** Barczewski, Broderick, Fox, Guo, Marsh, McIntosh, Ozbay, Tucker (Emeritus), Vulinec, Kalavacharla.

**Associate Professor:** Elavarthi, Heckscher

**Assistant Professors:** Matthews, Melmaiee, Smith

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, Agriscience Education, 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-101	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
	<b>Total Credits</b>	<b>16</b>		<b>Total Credits</b>	<b>15</b>
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
	<b>Total Credits</b>	<b>17</b>		<b>Total Credits</b>	<b>15</b>
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-409	Weed Science	3			
NTRS-321	Biometrics	3			
	<b>Total Credits</b>	<b>15</b>		<b>Total Credits</b>	<b>15</b>
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
**_***	Social Science Elective	3	**_***	Electives	6
**_***	Electives	6			
	<b>Total Credits</b>	<b>15</b>		<b>Total Credits</b>	<b>12</b>

\*\* Senior Capstone

\*Writing Intensive Course(s)

<b>Total Credits: 120</b>
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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-101	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
	<b>Total Credits</b>	<b>16</b>		<b>Total Credits</b>	<b>16</b>
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-***	Literature Elective	3	**-***	Elective	3
BIOL-or NTRS- 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-202	Accounting II	3
	<b>Total Credits</b>	<b>17</b>		<b>Total Credits</b>	<b>16</b>
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	MKT-300	Marketing	3
ECON -201	Macroeconomics	3			
	<b>Total Credits</b>	<b>18</b>		<b>Total Credits</b>	<b>15</b>
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	Business Law	3	MKT-303	Selling and Sales Management	3
	<b>Total Credits</b>	<b>12</b>		<b>Total Credits</b>	<b>12</b>

\*\* Senior Capstone

\*Writing Intensive Course(s)

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



**B.S. DEGREE IN AGRICULTURE – AGRISCIENCE EDUCATION**  
**Effective Fall 2015**

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-101	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-1XX	Intro to Ag. Education	3
HIST-***	History Elective	3	**_***	Humanities Elective	3
	<b>Total Credits</b>	<b>16</b>		<b>Total Credits</b>	<b>17</b>
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-***	Literature Elective	3	EDUC-204	Philosophical Foundations of Ed	3
BIOL- or NTRS- 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	PSYC-201	Intro to General Psychology	3
	<b>Total Credits</b>	<b>17</b>		<b>Total Credits</b>	<b>15</b>
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
EDUC-357	Effective Teaching Stat/Classroom Mgt.	3	EDUC-208	The Middle Years	3
AGRI-305	Ag Mechanics or Intro to Environmental Science	3	EDUC 318 GLOB-395	Global Societies/Multicultural Ed (crosslisted)	3
AGRI-317	Fund. Of Crop Production	3	EDUC-313	Intro to the Ed.of Children w/Exceptional Needs	3
EDUC-344	Instructional Technology	3	AGRI-407	Meth. Of Teaching Agriscience	3
NTRS-321	Biometrics	3	AGRI -419	Plant Prop/Greenhouse Mgt.	3
	<b>Total Credits</b>	<b>15</b>		<b>Total Credits</b>	<b>15</b>
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
EDUC-302	Reading in the Content Area	3	EDUC-400	Student Teaching	3
EDUC-423	Assessment Strategies	3			
EDUC-322	Curric. And Instruction Strat. For Middle Level Ed	3			
AGRI-3** Or NTRS 103	Ag Mechanics or Intro to Environmental Science	3			
***_**	Humanities Elective	3			
	<b>Total Credits</b>	<b>15</b>		<b>Total Credits</b>	<b>12</b>

\*\* Senior Capstone

\*Writing Intensive Course(s)

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

Intro to Ag. Education AGRI 1\*\* has 10 hours early field experience in Ag Ed required

Philosophical Foundations of Ed EDUC 204 has 10 hours early field experience in Ag Ed required

Effective Teaching Strat./Classroom Mgt. EDUC 357 has 20 hours of Field Exp. in Ag Ed required

Methods of Teaching Agriscience AGRI 407 has 20 hours of Field Exp. in Ag Ed required

Curriculum and Instruction Stat. for Middle Level Ed. Ag Ed major will spend 2 days/wk for 6 hrs./day in a middle school Agriscience program (6-8)

Student Teaching EDUC-400 Ag Ed major will spend 5 days/week for an entire semester in a high school Agriscience program (9-12)

Students must pass Praxis I and apply for the Teacher Education Program prior to the end of the Freshman Spring Semester

Students must pass Praxis II prior to the end of their Junior Spring Semester. Passing Score of 530

**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-101	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
<b>Total Credits</b>		<b>16</b>	<b>Total Credits</b>		<b>15</b>
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-***	Literature Elective	3	**_***	Elective	3
BIOL- or NTRS- 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
<b>Total Credits</b>		<b>17</b>	<b>Total Credits</b>		<b>16</b>
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
<b>Total Credits</b>		<b>15</b>	<b>Total Credits</b>		<b>16</b>
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
<b>Total Credits</b>		<b>12</b>	<b>Total Credits</b>		<b>15</b>

\*\* Senior Capstone

\*Writing Intensive Course(s)

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

**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-101	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
		<b>Total Credits</b>			<b>Total Credits</b>
		<b>16</b>			<b>15</b>
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
		<b>Total Credits</b>			<b>Total Credits</b>
		<b>17</b>			<b>16</b>
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
BIOL -302	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-211 PHYS-201	Fundamentals of Physics I or General Physics I	4	PHYS 212 or PHYS - 202	Fundamentals of Physics II or General Physics II	4
NTRS-321	Biometrics	3	AGRI -208	Soil Science	3
**_***	Approved Elective*	3			
		<b>Total Credits</b>			<b>Total Credits</b>
		<b>18</b>			<b>15</b>
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
		<b>Total Credits</b>			<b>Total Credits</b>
		<b>13</b>			<b>13</b>

\*\* 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-101	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
	<b>Total Credits</b>	<b>16</b>		<b>Total Credits</b>	<b>15</b>
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-***	Literature Elective	3	**_***	Elective	3
BIOL-or NTRS-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
	<b>Total Credits</b>	<b>17</b>		<b>Total Credits</b>	<b>16</b>
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
**_***	Arts/Humanities Elective	3	**_***	Arts/Humanities Elective	3
BIOL -302	Comp. Anatomy or (BIOL 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
	<b>Total Credits</b>	<b>16</b>		<b>Total Credits</b>	<b>16</b>
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 -309	Farm Management *	3	AGRI -404	Sustainable Ag **	3
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
	<b>Total Credits</b>	<b>12</b>		<b>Total Credits</b>	<b>13</b>

\*\* Senior Capstone

\*Writing Intensive Course(s)

<b>Total Credits: 121</b>
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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-101	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
	<b>Total Credits</b>	<b>16</b>		<b>Total Credits</b>	<b>16</b>
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-***	Literature Elective	3	**_***	Elective	3
BIOL- or NTRS 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-202	Accounting II	3
	<b>Total Credits</b>	<b>17</b>		<b>Total Credits</b>	<b>16</b>
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
**_***	Arts/Humanities Elective	3	**_***	Arts/Humanities Elective	3
AGRI -318	Intro to Horse Science	3	ENGL -200	Speech	3
AGRI-463	Forage Crop Prod. & Mgt.	3	AGRI-330	Equine Management	3
AGRI-465	Weed Science	3	ECON -202	Microeconomics	3
NTRS-321	Biometrics	3	MKT-300	Marketing	3
ECON -201	Macroeconomics	3			
	<b>Total Credits</b>	<b>18</b>		<b>Total Credits</b>	<b>15</b>
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	Business Law	3	MKT-303	Selling and Sales Management	3
	<b>Total Credits</b>	<b>12</b>		<b>Total Credits</b>	<b>12</b>

\*\* Senior Capstone

Writing Intensive Course(s)

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

**A concentration is required for this major and may include:**

Agribusiness, General Agriculture, Plant Science Horticulture, Plant Science Agronomy, Animal and Poultry Science, Pre-Veterinary Science, Equine Business Management.

**Major courses:** See curriculum sheet for each concentration

**Major Electives:** See curriculum sheet for each concentration

**General Education Breadth courses:**

Breadth Area	Any Approved Course or list course/courses
Literature (three credits)	ENGL 201,202,205 or 206
History (three credits)	HIST 101,102, 201,202,
Mathematics (three or four credits)	MTSC 122 or 251
Natural Science with Laboratory (three or four credits)	BIOL 102
Social Science (three credits)	ECON 201
Arts/Humanities (two three-credit courses)	Any approved humanities course

**Across-the-Curriculum (A-t-C)**

Across-the-Curriculum (A-t-C) Outcomes List		
Department		Agriculture and Natural Resources
Program/Major		Agriculture
Concentration (if applicable)		Exceptions as noted for Plant Science Conc)
Effective Date		
A-t-C Outcome	Course(s)	Course Name(s)
Reading	AGRI 206 AGRI 219	Intro to Animal Science General Horticulture (for Plant Science concentration)
Writing Intensive or Writing in Major (outside capstone)	AGRI 309	Farm Management
Speaking – Oral Communication – Presentation	AGRI 206 AGRI 219	Intro to Animal Science General Horticulture (for Plant Science concentration)
Speaking – Oral Communication – Discussion	AGRI 206 AGRI 219	Intro to Animal Science General Horticulture (for Plant Science concentration)
Listening	AGRI 206 AGRI 219	Intro to Animal Science General Horticulture (for Plant Science concentration)
Computer Competency	AGRI 309	Farm Management
Information Literacy	AGRI 309	Farm Management
Critical Thinking/Problem Solving	NTRS 321 AGRI 207	Biometrics Introduction to Animal Nutrition
Quantitative Reasoning	NTRS 321	Biometrics
Multicultural 6 credits (choose two)	SCCJ 101 Any Foreign Language ENGL 201 or 202 PHIL 201	Introduction to Sociology Foreign Language World Literature Introduction to Philosophy

	HIST 101 or 102	World History
<b>African-American Experience</b>	HIST 203 or 204 ENGL 205 or 206 MUSC 100	African American Experiences African American Literature African American Music
<b>Self-Evaluation</b>	AGRI 102	Agriculture and Natural Resources
<b>Wellness</b>	AGRI 102	Agriculture and Natural Resources
<b>Global Issues</b>	AGRI 206 AGRI 317	Introduction to Animal Science Principles of Crop Production

**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-101	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			
	<b>Total Credits</b>	<b>16</b>		<b>Total Credits</b>	<b>14</b>
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
BIOL- or NTRS 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
	<b>Total Credits</b>	<b>17</b>		<b>Total Credits</b>	<b>17</b>
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
	<b>Total Credits</b>	<b>15</b>		<b>Total Credits</b>	<b>15</b>
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
	<b>Total Credits</b>	<b>12</b>		<b>Total Credits</b>	<b>15</b>

\*\* Senior Capstone

\*Writing Intensive Course(s)

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

**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-101	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
	<b>Total Credits</b>	<b>16</b>		<b>Total Credits</b>	<b>17</b>
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
BIOL or NTRS-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
	<b>Total Credits</b>	<b>17</b>		<b>Total Credits</b>	<b>17</b>
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
	<b>Total Credits</b>	<b>15</b>		<b>Total Credits</b>	<b>15</b>
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
	<b>Total Credits</b>	<b>12</b>		<b>Total Credits</b>	<b>12</b>

\*\* Senior Capstone

\*Writing Intensive Course(s)

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

**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-101	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			
	<b>Total Credits</b>	<b>16</b>		<b>Total Credits</b>	<b>14</b>
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-200	Speech	3	PHIL-202	Ethics or (PHIL-105)	3
BIOL- or NTRS 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
	<b>Total Credits</b>	<b>18</b>		<b>Total Credits</b>	<b>17</b>
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 (NTRS-266)	3-4	BIOL -209	General Botany or Dendrology -NTRS-111	3
PHYS-121	Physics I or Hydrology (NTRS-302)	3	AGRI -208	Soil Science	3
NTRS -202	Microclimatology	3	NTRS -313	Limnology	3
NTRS -321	Biometrics	3	GLOB-395	Global Societies	3
	<b>Total Credits</b>	<b>15</b>		<b>Total Credits</b>	<b>15</b>
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			
	<b>Total Credits</b>	<b>15</b>		<b>Total Credits</b>	<b>12</b>

\*\* Senior Capstone

\*Writing Intensive Course(s)

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

**Environmental Science 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 Science 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*.

**A concentration is required for this major and may include:**

Wildlife Management, Fisheries Management, Environmental Science

**Major courses:** See curriculum sheet for each concentration

**Major Electives:** See curriculum sheet for each concentration

**General Education Breadth courses:**

Breadth Area	Any Approved Course or list course/courses
Literature (three credits)	ENGL 201,202,205 or 206
History (three credits)	HIST 101,102, 201,202,
Mathematics (three or four credits)	MTSC 122 or 251
Natural Science with Laboratory (three or four credits)	BIOL 102
Social Science (three credits)	ECON 201
Arts/Humanities (two three-credit courses)	Any approved humanities course

**Across-the-Curriculum (A-t-C)**

Across-the-Curriculum (A-t-C) Outcomes List		
Department		Agriculture and Natural Resources
Program/Major		Natural Resources
Concentration (if applicable)		All
Effective Date		
A-t-C Outcome	Course(s)	Course Name(s)
Reading	NTRS 475	Environmental and Wildlife Law
Writing Intensive or Writing in Major (outside capstone)	NTRS 456	Wetlands Biology
Speaking – Oral Communication – Presentation	NTRS 475	Environmental and Wildlife Law
Speaking – Oral Communication –	NTRS 475	Environmental and Wildlife Law

<b>Discussion</b>		
<b>Listening</b>	NTRS 475	Environmental and Wildlife Law
<b>Computer Competency</b>	NTRS 321	Biometrics
<b>Information Literacy</b>	NTRS 475	Environmental and Wildlife Law
<b>Critical Thinking/Problem Solving</b>	NTRS 321	Biometrics
<b>Quantitative Reasoning</b>	NTRS 321	Biometrics
<b>Multicultural</b> 6 credits (choose two)	SCCJ 101 Any Foreign Language ENGL 201 or 202 PHIL 201 HIST 101 or 102	Introduction to Sociology Foreign Language World Literature Introduction to Philosophy World History
<b>African-American Experience</b>	HIST 203 or 204 ENGL 205 or 206 MUSC 100	African American Experiences African American Literature African American Music
<b>Self-Evaluation</b>	AGRI 350	Problems in Agriculture and Natural Resources
<b>Wellness</b>	AGRI 350	Problems in Agriculture and Natural Resources
<b>Global Issues</b>	NTRS 103	Introduction to Environmental Science

## **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 Delmarva 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-318. INTRO TO HORSE SCIENCE****3:2:2**

An introductory course covering the science and husbandry of the equine species. General anatomy, physiology nutrition, genetics, reproduction and behavior will be covered along with basic housing care and management. This course is designed to provide an understanding of the equine industry with special emphasis on basic daily care.

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 -330. EQUINE MANAGEMENT****3:3:0**

Equine management focuses on the practices leading to a profitable equine enterprise. The course covers risk management and legal issues as related to the equine industry. Credit Hours: 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 -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. MAMMALOLOGY****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

**Professor:** Besong

**Associate Professors:** Oh, Lee

**Assistant Professor:** Taylor, Aryee, Lim

**Coordinated Program in Dietetics:** Taylor

**Instructors:** Jasmine Chandler

### 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 or 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 programs that meet societal needs of diverse populations.
- 2.1: Increase faculty participation and provide research opportunities in which students may 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 the use of technology to enhance and expand course delivery.
- 3.3: Strengthen the tripartite 1890 Land-Grant mission.

### Vision

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

### Programs

The **Department of Human Ecology**, a unit in the [College of Agriculture and Related Sciences](#), embraces and promotes the land-grant mission of the University, which is excellence in teaching, research and outreach. The Department offers two undergraduate programs in: [Food & Nutritional Sciences](#) and [Textiles & Apparel Studies](#); and one graduate program (Master of Science in Food Science and Biotechnology). The Department promotes diversity by recruiting students from under-represented groups and internationally to meet its global commitment. Undergraduate and graduate course delivery methods incorporate emerging technologies and advanced teaching tools to enhance graduates' reading, writing, speaking, computer competency, critical thinking and problem solving skills. A **Baccalaureate degree** is conferred upon completion of **a minimum of 125 hours of course work**, whereas **Master of Science degrees** are conferred upon completion of **a minimum of 24 credit hours of graduate level coursework and 6 credits of thesis work**.

## FOOD AND NUTRITIONAL SCIENCES (FNS) Program

The Food and Nutritional Science (FNS) program is housed in the Department of Human Ecology at Delaware State University. Currently, the department offers **six (6) areas of concentration** within the Food and Nutritional Sciences program: (1) Coordinated Program in Dietetics (CPD); (2) Nutritional Science, (3) Food Science, (4) Pre-Allied Health Sciences, (5) Pre-Medicine, and (6) Pre-Physician Assistant. A baccalaureate degree in Food and Nutritional Science is conferred upon completion of a minimum of 125 hours of course work.

### ***Concentration: Coordinated Program in Dietetics (CPD)***

The Coordinated Program in Dietetics (CPD) at Delaware State University is a limited enrollment program for students who wish to graduate with a Bachelor of Science degree in Food and Nutritional Science with a concentration in Dietetics. The CPD provides students with the opportunity to complete both the didactic portion and the supervised practice portion while completing their bachelor's degree. Admission to the program is competitive and requires a separate application when the student enters his/her junior year. The Coordinated Program (CPD) is designed for students who wish to graduate "job ready" and eligible to take the Registration Examination for Dietitians. The program provides instruction in the three broad areas of dietetic practice: Clinical Nutrition, Community Nutrition, and Food Service Management, and prepares entry-level dietitians for careers in health care, community/public health, government, business, education, research, and private practice. The program offers a concentration in culturally competent food and nutrition services. The supervised practice portion requires a minimum of 1,200 hours of supervised practice during the student's junior and senior year. To be able to complete the required hours, the student will need to spend one summer at DSU.

The CPD curriculum provides a thorough foundation in biomedical, nutritional, behavioral, managerial and clinical sciences to prepare graduates with the competencies needed to enter and contribute to the profession of dietetics. The Coordinated Program in Dietetics fulfills both the academic and supervised practice requirement set forth by the Accreditation Council for Education in Nutrition and Dietetics for students pursuing the Registered Dietitian (RD) credential. Delaware State University's Coordinated Program in Dietetics has been granted candidate status by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics. For application and admission details, please visit the DSU Admissions page.

To become a Registered Dietitian, the graduate must pass the National Registration Examination administered by the [Commission on Dietetic Registration \(CDR\)](#). Once credentialed, the dietitian must complete continuing professional education to maintain registration status. The Commission on Dietetic Registration provides information on registration eligibility, career opportunities, and the registration examination.

### ***Concentration: Nutritional Science***

The Nutritional Science Option is designed for students pursuing careers in community nutrition, sports nutrition, food service and allied health professions. This program option also provides a comprehensive undergraduate experience to prepare students for careers in the health sciences, including medicine, pharmacy, and dentistry. Students will be mentored by faculty advisors to fulfill all the requirements for admission into medical, dental, pharmacy and allied health schools while learning the critical role that diet plays in preventing and treating disease. The program provides a solid foundation in the basic sciences including biochemistry, physiology and genetics coupled with specialized courses related to how nutritional status is impacted by life cycle stage, exercise, drugs, and behavior. This program also provides an ideal foundation for graduate programs leading to advanced degrees required for careers in academics.

### ***Concentration: Food Science***

The Food Science Option prepares students to apply the principles of science and engineering to better understand the complex and heterogeneous compounds in food. There is a great demand in the global food industry and government for highly knowledgeable and competent food scientists. Opportunities for food scientists include food safety, food quality control, food product development, production management, technical sales and service, ingredient management, research, and teaching. The Food Science curriculum meets the required core courses set by the [Institute of Food Technologists](#). Food Science applies the knowledge of chemistry, engineering,

microbiology, biochemistry, other basic and applied sciences, toxicology, and management as well as industrial and practical aspects to the production, development, processing, preservation, evaluation, distribution, storage, sanitation, and marketing of nutritious and safe food products.

***Concentration: Pre-Allied Health Sciences, Pre-Medicine, and Pre-Physician Assistant***

This program fulfills requirements for Pre-Allied Health Sciences/Pre-Accelerated Nursing, Pre-Medicine, and Pre-Physician Assistant. Over the past number of years some of our students have expressed interest in pursuing careers in a medical/allied health field. While studying how nutrition enhances health and quality of life through promotion of wellness, disease prevention or delay, and/or medical nutrition therapy, the concentrations will help students fulfill their premed or pre-physician's assistant or pre-allied health sciences requirements.

There is an increasing recognition of the effect of nutrition and diet on health and longevity in the health care community. Medical schools across the United States have recognized that practical nutrition education must be incorporated into their curricula to address the startling increase in chronic diseases in the Western world. For example, Harvard Medical School has decided to provide its students with nutrition education during all four years of their medical education (<http://nutrition.med.harvard.edu/education.html>).

According to medical programs such as Duke's Integrative Medicine, effective interventions should be natural and less invasive whenever possible. These interventions are frequently at least partially based in nutrition and seek to address the cause of the illness rather than eliminate its symptoms. This makes a nutritional science degree an excellent preparation for many allied health care professionals.

**PROGRAM: FOOD AND NUTRITIONAL SCIENCES**  
**CONCENTRATION: Coordinated Program in Dietetics**

Freshman Fall Semester				Freshman Spring Semester			
Course #	Course Name	CR	Grade	Course #	Course Name	CR	Grade
ENGL-101	English Composition I	3		ENGL-102	English Composition II*	3	
BIOL-101	General Biology I**	4		BIOL-102	General Biology II**	4	
HMEC-191	University Seminar *	1		HMEC-192	University Seminar II*	1	
HMEC-215	Intro. to Nutrition	3		HMEC-105	Principles & Analysis of Food Prep	4	
MTSC-121	College Algebra**	3		xxxx-XXX	Art/Humanities course	3	
MVSC-101	Lifetime Fitness & Wellness *	2		PSYC-201	Introduction to Psychology*	3	
	Total Credits	<b>16</b>			Total Credits	<b>17</b>	
Sophomore Fall Semester				Sophomore Spring Semester			
Course #	Course Name	CR	Grade	Course #	Course Name	CR	Grade
CHEM-101	General Chemistry I	4		CHEM-102	General Chemistry II	4	
NTRS-321	Biometrics or Statistics	3		HMEC-250	Introduction to Food Science	3	
BIOL-208	Anatomy & Physiology II	4		HIST-xxx	History (A-T-C)	4	
HMEC-335	Nutr. Through Lifecycle	3		BIOL-221	Microbiology	3	
				ENGL-200	Speech	3	
	Total Credits	<b>16</b>			Total Credits	<b>17</b>	
Junior Fall Semester				Junior Spring Semester			
Course #	Course Name	CR	Grade	Course #	Course Name	CR	Grade
CHEM-301	Organic Chemistry	4		GLOB-395	Global Societies	3	
ECON-201	Macroeconomics	3		HMEC-308	Advanced Nutrition	3	
HMEC-310	Intro to Professional Practice	2		HMEC-425	Med. Nutrition Therapy I	3	
HTM-311	Food Production Mgmt	3		HMEC-432	Community Nutrition	3	
HMEC-427	Nutr. Edu & Counseling	2		HMEC-490	Community Practicum	4	
HMEC-325	Human Nutr. Assessment	2					
	Total Credits	<b>16</b>			Total Credits	<b>16</b>	
Junior Summer Semester							
Course #	Course Name	CR	Grade				
HMEC-491	Clinical Practicum I	4					
	Total credits	<b>4</b>					
Senior Fall Semester				Senior Spring Semester			
Course #	Course Name	CR	Grade	Course #	Course Name	CR	Grade
HMEC-421	Institutional Food Service	3		HMEC-455	Nutritional Biochemistry	3	
HMEC-428	**Research Methods	2		HMEC-450	Senior Seminar	1	
HMEC-426	Med. Nutrition Therapy II	3		xxxx-xxx	Art & Humanities**	3	
HMEC-492	Clinical Practicum II	6		HMEC-493	Food Service Management Pract	4	
				HMEC-494	Enrichment Practicum	2	
	Total Credits	<b>14</b>			Total Credits	<b>13</b>	

Core Requirements: \*

Breadth Requirements: \*\*

Include one African American Experience

Name: \_\_\_\_\_

ID#: \_\_\_\_\_

Advisor: \_\_\_\_\_

**PROGRAM: FOOD AND NUTRITIONAL SCIENCES**  
**CONCENTRATION: Nutritional Sciences**

Freshman Fall Semester				Freshman Spring Semester			
Course #	Course Name	CR	Grade	Course #	Course Name	CR	Grade
ENGL-101	English Composition I	3		ENGL-102	English Composition II*	3	
BIOL-101	General Biology I**	4		BIOL-101	General Biology II**	4	
HMEC-191	University Seminar *	1		HMEC-192	University Seminar II*	1	
HMEC-102	Concepts in Nutrition	3		HMEC-105	Principles & Analysis of Food Prep	4	
MTSC-121	College Algebra	3		SCCJ-101 PSYC-201	Introduction to Sociology OR Introduction to Psychology	3	
HMEC-100	Intro to Human Sciences	2		MVSC-101	Lifetime Fitness & Wellness *	2	
	Total Credits	16			Total Credits	16	
Sophomore Fall Semester				Sophomore Spring Semester			
Course #	Course Name	CR	Grade	Course #	Course Name	CR	Grade
CHEM-101	General Chemistry I	4		CHEM-102	General Chemistry II	4	
HMEC-250	Intro to Food Science	3		ENGL-200	Speech*	3	
HMEC-215	Introduction to Nutrition	3		HIST-xxx	History (A-T-C) **	3	
ENGL-xxx	Literature**	3		BIOL-307	Physiology	3	
xxxx-xxx	Art/Humanities	3		xxxx-xxx	Science Electives	3	
	Total Credits	16			Total Credits	16	
Junior Fall Semester				Junior Spring Semester			
Course #	Course Name	CR	Grade	Course #	Course Name	CR	Grade
CHEM-301 CHEM-207	Organic Chemistry OR Chem. For Health Sciences	4		HMEC-317	Nutr. In Pub Hlth & Epidemiology	3	
HEPR-205	Fundamentals of Pub Hlth	3		HMEC-308	Advanced Nutrition	3	
HMEC-335	Nutrition Thro Lifecycle	3		HMEC-425	Med. Nutrition Therapy I	3	
BIOL-221	Microbiology	4		HMEC-432	Community Nutrition	3	
xxxx-xxx	Science Elective	3		ECON-201	Macroeconomics	3	
	Total Credits	17			Total Credits	15	
Senior Fall Semester				Senior Spring Semester			
Course #	Course Name	CR	Grade	Course #	Course Name	CR	Grade
HMEC-xxx	Nutrition Elective	3		HMEC-455	Nutritional Biochemistry	3	
HMEC-428	**Research Methods	2		HMEC-450	Senior Seminar	1	
HMEC-426	Med. Nutrition Therapy II	3		GLOB-395	Global Societies	3	
NTRS-321	Biometrics	3		xxxx-xxx	Science Electives	4	
xxxx-xxx	Art/Humanities	3		HMEC-xxx	Free Electives	2	
	Total Credits	14			Total Credits	13	

Core Requirements: \*

Breadth Requirements: \*\*

Include one African American Experience

Name: \_\_\_\_\_

ID#: \_\_\_\_\_

Advisor: \_\_\_\_\_

**PROGRAM: FOOD AND NUTRITIONAL SCIENCES**

**CONCENTRATION: Food Science**

Freshman Fall Semester				Freshman Spring Semester			
Course #	Course Name	CR	Grade	Course #	Course Name	CR	Grade
ENGL-101	English Composition I	3		ENGL-102	English Composition II*	3	
BIOL-101	General Biology I**	4		BIOL-101	General Biology II**	4	
HMEC-191	University Seminar *	1		HMEC-192	University Seminar II*	1	
HMEC-215	Intro. to Animal Science	3		HMEC-105	Principles & Analysis of Food Prep	4	
MTSC-121	College Algebra**	3		MTSC-122	Trigonometry	3	
xxxx-xxx	Art/Humanities	3		PSYC-201	Introduction to Psychology OR	3	
				SSCI-100	Introduction to Sociology		
	Total Credits	16			Total Credits	17	
Sophomore Fall Semester				Sophomore Spring Semester			
Course #	Course Name	CR	Grade	Course #	Course Name	CR	Grade
CHEM-101	General Chemistry I	4		CHEM-102	General Chemistry II	4	
HMEC-215	Introduction to Nutrition	3		ENGL-200	Speech	3	
HMEC-260	Food Microbiology	3		HMEC-250	Introduction to Food Science	3	
ADRI-305	Intro to Poultry Science	3		MVSC-100	Life =time Fitness & Wellness	2	
HMEC-331	Quant. FD Sys. MGMT	3		HMEC-308	Advanced Nutrition	3	
	Total Credits	16			Total Credits	15	
Junior Fall Semester				Junior Spring Semester			
Course #	Course Name	CR	Grade	Course #	Course Name	CR	Grade
CHEM-301	Organic Chemistry I	4		CHEM-302	Organic Chemistry II	4	
ENGL-xxx	Literature	3		HMEC-455	Nutritional Biochemistry	3	
NTRS-321	Biometrics	3		ECON-201	Macroeconomics	3	
xxxx-xxx	Science Electives	3		HMEC-375	Food Processing	3	
				xxxx-xxx	Science Elective	3	
	Total Credits	15			Total Credits	17	
Senior Fall Semester				Senior Spring Semester			
Course #	Course Name	CR	Grade	Course #	Course Name	CR	Grade
HIST-xxx	History (A-T-C) **	3		HMEC-465	Food Safety	3	
HMEC-428	**Research Methods	2		HMEC-450	Senior Seminar	1	
CHEM-403	Biochemistry	4		GLOB-395	Global Societies	3	
HMEC440	Food Analysis	3		HMEC-457	Food Chemistry	3	
HMEC474	Food Biotech & Genomics	4		HMEC-467	Fundamentals of Food policy	3	
	Total Credits	16			Total Credits	13	

Core Requirements: \*

Breadth Requirements: \*\*

Include one African American Experience

Name: \_\_\_\_\_

ID#: \_\_\_\_\_

Advisor: \_\_\_\_\_

**PROGRAM: FOOD AND NUTRITIONAL SCIENCES  
CONCENTRATION: PRE-Allied Health Sciences**

Freshman Fall Semester				Freshman Spring Semester			
Course #	Course Name	CR	Grade	Course #	Course Name	CR	Grade
ENGL-101	English Composition I	3		ENGL-102	English Composition II*	3	
BIOL-101	General Biology I**	4		BIOL-101	General Biology III**	4	
HMEC-191	University Seminar *	1		HMEC-192	University Seminar II*	1	
HMEC-215	Intro. to Nutrition	3		HMEC-105	Principles & Analysis of Food Prep	4	
MTSC-121	College Algebra**	3		HIST-XXX	History (A-T-C)**	3	
MVSC-101	Lifetime Fitness & Wellness *	2		PSYC-201	Introduction to Psychology*	3	
	Total Credits	16			Total Credits	17	
Sophomore Fall Semester				Sophomore Spring Semester			
Course #	Course Name	CR	Grade	Course #	Course Name	CR	Grade
CHEM-101	General Chemistry I	4		CHEM-102	General Chemistry II	4	
HMEC-335	Nutrition Thro. Lifecycle	3		ENGL-200	Speech	3	
MVSC-202	Anatomy & Physiology I	4		MVSC-202	Anatomy & Physiology II	4	
ENGL-xxx	Literature**	3		xxxx-xxx	Art & Humanities **	3	
	Total Credits	14			Total Credits	14	
Junior Fall Semester				Junior Spring Semester			
Course #	Course Name	CR	Grade	Course #	Course Name	CR	Grade
CHEM-301	Organic Chemistry	4		HMEC-xxx	Nutrition Elective	2	
BIOL-221	Microbiology	4		HMEC-308	Advanced Nutrition	3	
HMEC-310	Intro to Professional Practice	2		<b>HMEC-425</b>	Med. Nutrition Therapy I	3	
MVSC-212	Medical Terminology	3		<b>HMEC-432</b>	Community Nutrition	3	
HMEC-325	Human Nutrition Assessment	2		<b>GLOB-395</b>	Global Societies*	3	
	Total Credits	15			Total Credits	16	
Senior Fall Semester				Senior Spring Semester			
Course #	Course Name	CR	Grade	Course #	Course Name	CR	Grade
HMEC-xxx	Nutrition Elective	3		HMEC-455	Nutritional Biochemistry	3	
HMEC-428	**Research Methods	2		HMEC-450	Senior Seminar	1	
HMEC-426	Med. Nutrition Therapy II	3		xxxx-xxx	Art & Humanities**	3	
PSYC-316	Developmental Psychology	3		PSYC-320	Psychology of Adulthood & Aging	3	
HMEC401	Field Experience	3		HMEC-427	*Nutrition Education & Counseling	2	
				NTRS-321	Biometrics	3	
	Total Credits	14			Total Credits	15	

Core Requirements: \*  
Breadth Requirements: \*\*  
Include one African American Experience

Name: \_\_\_\_\_  
ID#: \_\_\_\_\_  
Advisor: \_\_\_\_\_

**PROGRAM: FOOD AND NUTRITIONAL SCIENCES  
CONCENTRATION: PRE-Medicine**

Freshman Fall Semester				Freshman Spring Semester			
Course #	Course Name	CR	Grade	Course #	Course Name	CR	Grade
ENGL-101	English Composition I	3		ENGL-102	English Composition II*	3	
BIOL-101	General Biology I**	4		BIOL-101	General Biology III**	4	
HMEC-191	University Seminar *	1		HMEC-192	University Seminar II*	1	
HMEC-215	Intro. to Nutrition	3		HMEC-105	Principles & Analysis of Food Prep	4	
MTSC-121	Calculus I**	3		SCCJ-101	Introduction to Sociology	3	
MVSC-101	Lifetime Fitness & Wellness *	2		PSYC-201	Introduction to Psychology**	3	
	Total Credits	16			Total Credits	17	
Sophomore Fall Semester				Sophomore Spring Semester			
Course #	Course Name	CR	Grade	Course #	Course Name	CR	Grade
CHEM-101	General Chemistry I	4		CHEM-102	General Chemistry II	4	
HMEC-335	Nutrition Thro. Lifecycle	3		ENGL-200	Speech*	3	
MVSC-202	Anatomy & Physiology II	4		BIOL-210	Genetics	3	
ENGL-xxx	Literature**	3		HIST-xxx	History (A-T-C) **	3	
NTRS-321	Biometrics or	3		BIOL-221	Microbiology	4	
MGMT-208	Intro. to Statistics						
	Total Credits	17			Total Credits	17	
Junior Fall Semester				Junior Spring Semester			
Course #	Course Name	CR	Grade	Course #	Course Name	CR	Grade
CHEM-301	Organic Chemistry	4		CHEM-301	Organic Chemistry	4	
XXXX-XXX	Art/Humanities**	4		HMEC-308	Advanced Nutrition	3	
HMEC-310	Intro to Professional Practice	2		HMEC-425	Med. Nutrition Therapy I	3	
MVSC-212	Medical Terminology	3		HMEC-432	Community Nutrition	3	
HMEC-325	Human Nutrition Assessment	2		GLOB-395	Global Societies*	3	
	Total Credits	15			Total Credits	16	
Senior Fall Semester				Senior Spring Semester			
Course #	Course Name	CR	Grade	Course #	Course Name	CR	Grade
HMEC-xxx	Nutrition Elective	3		HMEC-455	Nutritional Biochemistry	3	
HMEC-428	**Research Methods	2		HMEC-450	Senior Seminar	1	
HMEC-426	Med. Nutrition Therapy II	3		xxxx-xxx	Art & Humanities**	3	
PHYS-201	General Physics I	4		PHYS-201	General Physics II	4	
HMEC401	Field Experience	3		HMEC-427	*Nutrition Education & Counseling	2	
	Total Credits	15			Total Credits	13	

Core Requirements: \*  
Breadth Requirements: \*\*  
Include one African American Experience

Name: \_\_\_\_\_  
ID#: \_\_\_\_\_  
Advisor: \_\_\_\_\_

**PROGRAM: FOOD AND NUTRITIONAL SCIENCES  
CONCENTRATION: PRE-Physician Assistant**

Freshman Fall Semester				Freshman Spring Semester			
Course #	Course Name	CR	Grade	Course #	Course Name	CR	Grade
ENGL-101	English Composition I	3		ENGL-102	English Composition II*	3	
BIOL-101	General Biology I**	4		BIOL-101	General Biology III**	4	
HMEC-191	University Seminar *	1		HMEC-192	University Seminar II*	1	
HMEC-215	Intro. to Nutrition	3		HMEC-105	Principles & Analysis of Food Prep	4	
MTSC-121	College Algebra**	3		HIST-XXX	History (A-T-C)**	3	
MVSC-101	Lifetime Fitness & Wellness *	2		PSYC-201	Introduction to Psychology*	3	
	Total Credits	16			Total Credits	17	
Sophomore Fall Semester				Sophomore Spring Semester			
Course #	Course Name	CR	Grade	Course #	Course Name	CR	Grade
CHEM-101	General Chemistry I	4		CHEM-102	General Chemistry II	4	
HMEC-335	Nutrition Thro. Lifecycle	3		ENGL-200	Speech	3	
MVSC-202	Anatomy & Physiology I	4		MVSC-202	Anatomy & Physiology II	4	
ENGL-xxx	Literature**	3		xxxx-xxx	Art & Humanities **	3	
	Total Credits	14			Total Credits	14	
Junior Fall Semester				Junior Spring Semester			
Course #	Course Name	CR	Grade	Course #	Course Name	CR	Grade
CHEM-301	Organic Chemistry	4		HMEC-xxx	Nutrition Elective	2	
BIOL-221	Microbiology	4		HMEC-308	Advanced Nutrition	3	
HMEC-310	Intro to Professional Practice	2		HMEC-425	Med. Nutrition Therapy I	3	
MVSC-212	Medical Terminology	3		HMEC-432	Community Nutrition	3	
HMEC-325	Human Nutrition Assessment	2		GLOB-395	Global Societies*	3	
	Total Credits	15			Total Credits	16	
Senior Fall Semester				Senior Spring Semester			
Course #	Course Name	CR	Grade	Course #	Course Name	CR	Grade
HMEC-xxx	Nutrition Elective	3		HMEC-455	Nutritional Biochemistry	3	
HMEC-428	**Research Methods	2		HMEC-450	Senior Seminar	1	
HMEC-426	Med. Nutrition Therapy II	3		xxxx-xxx	Art & Humanities**	3	
PSYC-316	Developmental Psychology	3		BIOL-320	Genetics	3	
PSYC-402	Abnormal Psychology						
HMEC401	Field Experience	3		HMEC-427	*Nutrition Education & Counseling	2	
				NTRS-321	Biometrics or	3	
				MGMT-208	Intro. to Statistics		
	Total Credits	14			Total Credits	15	

Core Requirements: \*  
Breadth Requirements: \*\*  
Include one African American Experience

Name: \_\_\_\_\_  
ID#: \_\_\_\_\_  
Advisor: \_\_\_\_\_

## Course Descriptions for Food and Nutritional Science Programs

### **HMEC 102 Concepts of Nutrition – 3 credits**

Basic principles of nutrition and metabolism are applied to health promotion and disease prevention with consideration of nutritional needs throughout the lifecycle. Emphasis is placed on dietary analysis and evaluation in the context of culture and ethnicity. The course includes a weekly lab.

### **HMEC 105 Principles and Analysis of Food Preparation – 3 credits**

Study of food composition and preparation of culturally diverse foods. Analysis of how physical and chemical changes occurring during food preparation and storage affect sensory characteristics, palatability, shelf life, and nutrient composition of foods. The course includes a weekly lab.

### **HMEC 215 Introduction to Nutrition – 3 credits**

General understanding of the role of the gastrointestinal tract in digestion and absorption of nutrients. Emphasis is placed on nutrient functions, nutritional requirements, food sources, and the role of nutrition in health maintenance and disease prevention.

### **HMEC 250 Introduction to Food Science – 3 credits**

Introduction to the composition, chemical and physical properties of foods. Effect of formulation, processing, and preservation on food quality and interactions of food components. Discussion of evaluation criteria and methodology.

**Prerequisites:** HMEC 105

### **HMEC 260 Food Microbiology – 4 credits**

The course emphasizes practical applications in Food Science through methodological approaches used in current research sectors. It covers 1) introduction of general microbiology; 2) introduction of pathogenic bacteria, fungi/yeast, and probiotics in various foods; 3) pathogen isolation and detection derived from various foods for food safety along with analytical methods; and 4) controlling microbes using thermal/non-thermal processing. Emerging issues related to food safety will be discussed. This course includes a weekly lab.

**Prerequisites:** HMEC 105, BIOL 101

### **HMEC 308 Advanced Nutrition – 3 credits**

Study of the cell and organ systems involved in nutrient digestion, absorption and metabolism with emphasis on the metabolic pathways of macronutrients. Discussion of macro- and micronutrient functions and the role of nutrition in genetic, metabolic, and diet related diseases.

**Prerequisites to Class:** HMEC 215

### **HMEC 310 Introduction to Professional Practice – 2 credits**

Introduction to Professional Practice course: Discussion of professional development, professionalism and the team approach to problem solving with special emphasis on cultural diversity as it relates to interpersonal communication. **Prerequisites:** HMEC 215 and Junior Standing

### **HMEC 325 Human Nutrition Assessment – 3 credits**

Review of methods and techniques used to assess the nutritional status of individuals, groups and populations as the first step of nutrition care process. Practice in collecting, interpreting and evaluating data from dietary, clinical, anthropometric and biochemical measurements to assess nutritional status. Development of analytical skills to critically evaluate nutritional assessment research published in professional journals.

**Prerequisites:** HMEC 215, HMEC 308, MTSC 121; **Co-requisite:** MVSC 202

**HMEC 335 Nutrition through the Life Cycle – 3 credits**

This course is designed to provide a detailed view of the nutritional foundations necessary for human growth, development and reproduction, including normal functioning of individuals in each stage of the life cycle, from preconception to the final stages of life. Normal nutrition for each stage of life is covered followed by some clinical aspects of nutritional interventions in each case of the cycle.

**Prerequisites to Class: HMEC 215**

**HMEC 425 Medical Nutrition Therapy I – 3 credits**

This course examines the pathophysiology, biochemical and behavioral abnormalities, medical management, nutrition care process, and medical nutrition therapy as they relate to the various diseases providing a theoretical and practical base for diet modification and nutritional therapy.

**Prerequisites: HMEC 215, HMEC 325, HMEC 335**

**HMEC 426 Medical Nutrition Therapy II – 3 credits**

This course examines advanced medical nutrition therapy for complex medical problems emphasizing each aspect of the nutritional care process. Application of pathophysiological and metabolic background to justify dietary intervention and nutrition therapy. This course will also cover the basic aspect of the coding and billing for medical nutrition therapy and its application.

**Prerequisites: HMEC 425**

**HMEC 336 Institutional Food Service – 3 credits**

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.

**Prerequisites: HTM 311**

**HMEC 427 Nutrition Education and Counseling – 2 credits**

Study of instructional methods to nutrition education with utilization of theories and principles of learning. Discussion of the interdisciplinary team approach to individual and group centered nutrition counseling. Application of skills and techniques of nutrition education and counseling based on current theories of behavior change and communicating nutrition information the public.

**HMEC 215, HMEC 335**

**HMEC 428 Research Methods – 2 credits**

Discussion of different methods of nutrition research with emphasis on research planning, experimental design, implementation, application of statistical tools, and preparing research for publication.

**HMEC 434 Community Nutrition – 3 credits**

This course examines community food and nutrition programs. Nutrition program planning and evaluation, policy and legislation are discussed in community nutrition assessment. Social, cultural, political, economic, and environmental factors affecting the demand and delivery of nutrition services are explored.

**Prerequisites: HMEC 215, HMEC 335**

**HMEC 450 Senior Seminar – 1 credit**

Critical thinking, reading, analysis, and discussion of pertinent journal publications on current issues affecting the profession. Development and execution of a small research project culminating in a term paper and oral presentation. **Prerequisite: Senior Standing in Human Ecology**

**HMEC 455 Nutritional Biochemistry – 3 credits**

This course focuses on the fundamental understanding of biochemical, physiological, cellular, and molecular processes in nutrition as they apply to the experimentation of human and animal subjects.

**Prerequisites: HMEC 308, CHEM 301**

**HMEC 490 Community Nutrition Practicum – 4 credit hours**

Supervised practice in community nutrition programs.

**Prerequisites: HMEC 335, HMEC 427, HMEC 432**

**HMEC 491 Clinical Nutrition Practicum I – 6 credits**

Supervised practice in clinical nutrition.

**Prerequisites: HMEC 425, HMEC 426**

**HMEC 492 Clinical Nutrition Practicum II – 4 credits**

Supervised practice in clinical nutrition.

**Prerequisites: HMEC 425, HMEC 426**

**HMEC 493 Food Service Management Practicum – 4 credits**

Supervised practice in food service management.

**Prerequisites: HTM 311, HMEC 336, HMEC 425**

**HMEC 494 Enrichment Practicum – 2 credits**

Supervised practice in approved, student-chosen facility of dietetic practice.

**Prerequisite: HMEC 490, HMEC 491, or HMEC 492**

## TEXTILES AND APPAREL STUDIES PROGRAM

**Textiles and Apparel Studies Program at DSU** provides students opportunity to develop professional skills in communication, analytical thinking, teamwork, and ethical behavior that sustain graduates as they apply management and marketing theory, and business principles to the global fashion industry. The Textile and Apparel Studies (TAS) program is designed to provide students with knowledge and skills in textiles, fashion design, merchandising and product development. Students in the TAS program have opportunities to develop knowledge of retail functions, merchandising principles, forecasting trends, and textile selection and evaluation. Majors are required to complete an approved internship after completion of all junior level fashion merchandising courses. TAS graduates are prepared to address the production, distribution and consumption of textile and apparel products from a variety of perspectives: global, economic, social, political, technological and marketing. Students have the opportunity to participate in summer internships within the textiles industry and earn variable credit hours. Summer internships with industries provide students hands-on experience in design, and fashion merchandising, and exposure to new products. A Baccalaureate degree is conferred upon completion of 122 credit hours. The program plans to offer **two areas of concentration** within the Textiles and Apparel Studies program:

1. Fashion Merchandising
2. Fashion Design

### **Concentration: Fashion Design**

The Fashion Design program prepares students for the world of fashion design and its related industries. Students focus on the design and construction of garments, design's expression and how it moves and fits the body. The curriculum stimulates creative expression in all aspects of Fashion Design, including fashion sketching, creative design, computer applications, draping, and pattern drafting. Graduates often have employment opportunities in many different facets of the industry relating to design, styling, forecasting, marketing, manufacturing, and merchandising. Fashion designers communicate ideas by fashion sketching, fashion illustration, and through the creation of three-dimensional finished garments that may appear on the runways or in retail stores.

### **Concentration: Fashion Merchandising**

It is an interdisciplinary program that requires knowledge of both fashion and business, and knowledge in apparel and business to give students an understanding of the design, manufacture, buying, selling and distribution of goods with knowledge about the target consumer. The curriculum is designed to help students understand how to conduct business across the entire breadth of the textiles and apparel industry. Students will understand the ways apparels are created, marketed, sold, and bought. This means not just knowing what's popular now, but staying ahead of the fashion curve and correctly predicting what will sell well in the near future. Students will learn the latest trends in marketing and business and will put those skills to work during internship activities. The career options range from Public Relations to Fashion Advertising. This entails analyzing trends and being educated in textiles, fabrics and colors, as well as production processes and market demands. Fashion and apparel merchandising is the promotion and sale of clothing and accessories, especially those articles of wear that are the prevailing trend. There are several job opportunities in the fashion and apparel merchandising field.

### **Textiles & Apparel Studies Requirements**

HMEC 103: Apparel Construction

HMEC 107: Intro to product Development\*

HMEC 191: University Seminar I

HMEC 192: University Seminar II

HMEC 202: Historic Costume & Design

HMEC 207: Intro to the Fashion Industry  
HMEC 209: Social Psychology of Clothing  
HMEC 210: Introduction to Textiles  
HMEC 307: Quantitative Merchandising Inventory Analysis  
HMEC 320: Quality Assurance in Textiles & Apparel  
HMEC 332: Visual Merchandising  
HMEC 402: Field Experience  
HMEC 415: Consumer Behavior in Fashion  
HMEC 428: Research Method  
HMEC 450: Senior Seminar  
HMEC 470: Textiles & Apparel in the Global Economy  
CHEM 100: Introduction to Chemistry  
MGMT 100: Intro to Business  
ECON 201: Macroeconomics  
ECON 202: Microeconomics

**Fashion Design Concentration Requirements**

HMEC 201: Fashion Illustration\*  
HMEC 204: Apparel production & Evaluation  
HMEC 205: Flat Pattern Design  
HMEC 311: Computer Application in Apparel Design  
HMEC 312: Design by Draping  
HMEC 404: Fashion Product Design\*  
HMEC 429: Portfolio Development\*  
Electives (12 credits): Students may choose 6 credits from ART courses and 6 credits from HMEC courses from any courses that the university offers.

**Fashion Merchandising Concentration Requirements**

HMEC 423: Merchandising Assortment Planning & Buying  
HMEC 465: Fashion Brand Management & marketing\*  
ACCT 204: Principles of Accounting 1  
MKT 300: Principles of Marketing  
Electives (15 credits): Fifteen credits from HMEC courses or from any courses that the university offers.

**PROGRAM: TEXTILES & APPAREL STUDIES**  
**CONCENTRATION: Fashion Design**

Freshman Fall Semester				Freshman Spring Semester			
Course #	Course Name	CR	Grade	Course #	Course Name	CR	Grade
ENGL-101	English Composition I	3		ENGL-102	English Composition II*	3	
<b>HMEC-107</b>	Intro to Product Development	3		<b>CHEM-100</b>	Intro. to Chemistry	4	
HMEC-191	University Seminar I*	1		HMEC-192	University Seminar II*	1	
<b>HMEC-103</b>	Apparel Construction	3		<b>MGMT-100</b>	<b>Intro to Business</b>	3	
MTSC-121	College Algebra**	3		<b>HMEC-204</b>	Apparel Production & Evaluation	3	
MVSC-101	Lifetime Fitness & Wellness *	2		<b>xxxx-xxx</b>	Elective	3	
	Total Credits	<b>15</b>			Total Credits	<b>17</b>	
<b>Sophomore Fall Semester</b>				<b>Sophomore Spring Semester</b>			
Course #	Course Name	CR	Grade	Course #	Course Name	CR	Grade
<b>HMEC-210</b>	Introduction to Textiles	3		<b>HMEC-209</b>	Social Psy of Clothing	3	
<b>HMEC-201</b>	Fashion Illustration	3		<b>ENGL-xxx</b>	Literature	3	
<b>HMEC-202</b>	Historic Costume & Design	3		<b>HMEC-205</b>	Flat Pattern Design	3	
<b>PSYC-201</b>	General Psychology	3		<b>ENGL-200</b>	Speech	3	
<b>HIST-xxx</b>	History	3		<b>HMEC-207</b>	Intro. to the Fashion Industry	3	
	Total Credits	<b>15</b>			Total Credits	<b>15</b>	
<b>Junior Fall Semester</b>				<b>Junior Spring Semester</b>			
Course #	Course Name	CR	Grade	Course #	Course Name	CR	Grade
<b>HMEC-311</b>	Comp Application in Apparel Design	3		<b>HMEC-307</b>	Quantitative Merchandising Inventory Analysis	3	
<b>HMEC-332</b>	Visual Merchandising	3		<b>HMEC-312</b>	Design By Draping	3	
<b>ECON-201</b>	Macroeconomics	3		<b>HMEC-402</b>	<b>Field Experience In TAS*</b>	3	
<b>XXXX-xxx</b>	Art & Humanities I	3		<b>HMEC-320</b>	Quality Assurance in Textiles & Apparel	3	
<b>XXXX-xxx</b>	Electives	3		<b>ECON-202</b>	Microeconomics	3	
	Total Credits	<b>15</b>		<b>XXXX-xxx</b>	Art & Humanities II	3	
					Total Credits	<b>18</b>	
<b>Senior Fall Semester</b>				<b>Senior Spring Semester</b>			
Course #	Course Name	CR	Grade	Course #	Course Name	CR	Grade
<b>HMEC-414</b>	Fashion Forecasting & Trend	3		<b>HMEC-429</b>	Portfolio Development**	3	
<b>HMEC-404</b>	Fashion Product Design	3		<b>HMEC-450</b>	Senior Seminar	1	
<b>HMEC-415</b>	Consumer Behavior in Fashion	3		<b>HMEC-470</b>	Textiles & Apparel in the Global Economy	3	
<b>HMCE-428</b>	Research Method	2		<b>XXXX-xxx</b>	Elective	3	
<b>GLST-395</b>	Global Society	3		<b>XXXX-xxx</b>	Elective	3	
	Total Credits	<b>14</b>			Total Credits	<b>13</b>	

Total Credit Hours: 122

Name: \_\_\_\_\_  
 ID#: \_\_\_\_\_  
 Advisor: \_\_\_\_\_

**PROGRAM: TEXTILES & APPAREL STUDIES**

**Concentration: Fashion Merchandising**

Freshman Fall Semester				Freshman Spring Semester			
Course #	Course Name	CR	Grade	Course #	Course Name	CR	Grade
ENGL-101	English Composition I	3		ENGL-102	English Composition II*	3	
HMEC-107	Intro to Product Development	3		CHEM-100	Intro. to Chemistry	4	
HMEC-191	University Seminar I*	1		HMEC-192	University Seminar II*	1	
xxxx-xxx	Art & Humanities I	3		MGMT-100	Intro to Business	3	
MTSC-121	College Algebra**	3		HMEC-207	Intro. to The Fashion Industry	3	
MVSC-101	Lifetime Fitness & Wellness *	2		xxxx-xxx	Art & Humanities II	3	
	Total Credits	<b>15</b>			Total Credits	<b>17</b>	
Sophomore Fall Semester				Sophomore Spring Semester			
Course #	Course Name	CR	Grade	Course #	Course Name	CR	Grade
HMEC-210	Introduction to Textiles	3		HMEC-209	Social Psy of Clothing	3	
HMEC-105	Micro Computer Application	3		ENGL-xxx	Literature	3	
MGMT-201	Managerial Communications	3		PSYC-201	General Psychology	3	
HIST-xxx	History	3		ENGL-200	Speech	3	
HMEC-202	Historic Costume & Design	3		xxxx-xxx	Elective	3	
						3	
	Total Credits	<b>15</b>			Total Credits	<b>15</b>	
Junior Fall Semester				Junior Spring Semester			
Course #	Course Name	CR	Grade	Course #	Course Name	CR	Grade
HMEC-332	Visual Merchandising	3		HMEC-320	Advanced Textiles	3	
HMEC-103	Apparel Construction	3		HMEC-307	Quantitative Merchandising Inventory Analysis	3	
ACCT204	Principles of Accounting I	3		HMEC-402	Field Experience In TAS*	3	
ECON-201	Macroeconomics	3		ECON-202	Microeconomics	3	
GLOB-395	Global Societies	3		MKT-300	Principles of Marketing	3	
				xxxx-xxx	Elective	3	
	Total Credits	<b>15</b>			Total Credits	<b>18</b>	
Senior Fall Semester				Senior Spring Semester			
Course #	Course Name	CR	Grade	Course #	Course Name	CR	Grade
HMEC-414	Fashion Forecasting & Trend	3		HMEC-465	Fashion Brand Management & Marketing**	3	
HMEC-423	Merchandising Assortment Planning & Buying	3		HMEC-470	Textiles & Apparel in the Global Economy	3	
HMEC-415	Consumer Behavior in Fashion	3		HMEC-450	Senior Seminar	1	
HMEC-428	Research method	2		xxxx-xxx	Elective	3	
xxxx-xxx	Elective	3		xxxx-xxx	Elective	3	
	Total Credits	<b>14</b>			Total Credits	<b>13</b>	

Total Credit Hours: 122

Name: \_\_\_\_\_

ID#: \_\_\_\_\_

Advisor: \_\_\_\_\_

## Course Descriptions for TEXTILES AND APPAREL STUDIES PROGRAM

### 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. 3.0 Credit hours; 1.0 Lecture hours; 3.0 Lab hours

### HMEC-107 INTRODUCTION TO PRODUCT DEVELOPMENT

3.1.2

This course focuses on the methods of research and development of concepts in the apparel product development for specific end use areas. The product development calendar, the components of apparel product and how the product is assembled, sizing, fit, costing, garment specifications, and the apparel production process.

3.0 Credit hours; 3.0 Lecture hours; 0.0 Lab hours

### HMEC-201 FASHION ILLUSTRATION

3.1.2

This course teaches students drawing techniques for the fashion designer using mixed media. Croqui figures are developed through model drawing. Vocabulary of various clothing styles, fabrications, and details is introduced. Course is designed to provide student the knowledge to develop technical drawing and flat sketching skills covering a range of garments and construction details used to communicate fashion designs for portfolio and production.

Credit, 3.0 Credit hours; 3.0 Lab hours

### 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: ART 101.

Credit, three hours. 3.0 Credit hours; 3.0 Lecture hours; 0.0 Lab 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.

3.0 Credit hours; 1.0 Lecture hours; 2.0 Lab 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. 3.0

Credit hours; 1.0 Lecture hours; 2.0 Lab hours

### 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. 3.0 Credit hours; 3.0 Lecture hours; 0.0 Lab 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. 3.0 Credit hours; 3.0 Lecture hours; 0.0 Lab 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. 3.0 Credit hours; 2.0 Lecture hours; 1.0 Lab hours

**HMEC 213 - AGRICULTURE AND THE FASHION INDUSTRY****4.4.0**

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. 4.0 Credit hours; 4.0 Lecture hours 1.0 Lab 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. Credit, three hours. 3.0 Credit hours; 3.0 Lecture hours; 0.0 Lab 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. Prerequisites: HMEC 103, HMEC 204, HMEC 205. Credit, three hours. 3.0 Credit hours; 1.0 Lecture hours; 2.0 Lab 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. 3.0 Credit hours; 1.0 Lecture hours; 2.0 Lab hours

**HMEC 320 - QUALITY ASSURANCE IN TEXTILES****3.1.2**

(TAS). Quality Assurance of Textiles and Apparel teaches principle of product and material evaluation and quality assurance. Develop specifications and utilizes industry's standard methods to assess materials, product characteristics, performance and quality. 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. 3.0 Credit hours; 1.0 Lecture hours; 2.0 Lab 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. 3.0 Credit hours; 3.0 Lecture hours 0.0 Lab hours

**HMEC-404 FASHION PRODUCT DESIGN****3.1.2**

This course is designed to facilitate the development of a realistic approach to garment design and problem solving in terms of industrial restrictions, and market segmentations. It requires development of original designs and execution by incorporating draping, drafting and flat-pattern techniques. This course provides an opportunity for the student to continue development of personal research methodologies, design philosophy, processes and innovative approaches to materiality. Students will examine more complex design concepts in order to demonstrate a breadth of understanding of brand identity and user contexts.

Prerequisites: HMEC 103, HMEC 201, HMEC 204, HMEC 205, HMEC 311, HMEC 312.

3.0 Credit hours; 3.0 Lab 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 201, HMEC 204, HMEC 205, HMEC 311, HMEC 312, HMEC 404

Credit, three hours. 3.0 Credit hours; 3.0 Lecture hours; 0.0 Lab hours

**HMEC 410 - PROBLEMS IN MERCHANDISING OF CLOTHING & 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. 3.0 Credit hours

3.0 Lecture hours; 0.0 Lab hours

**HMEC 414 - FASHION FORECASTING & 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. 3.0 Credit hours; 3.0 Lecture hours; 0.0 Lab 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. 3.0 Credit hours 3.0 Lecture hours; 0.0 Lab 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. 3.0 Credit hours; 3.0 Lecture hours

**HMEC-429 PORTFOLIO DEVELOPMENT****3.1.2**

This course is preparation and execution of a finished designer portfolio from couture to the marketplace. Included in the preparation is research of their chosen entry into the market via history, visuals and customer profile. This course provides the student with an opportunity to develop a personal design philosophy. The students learn to

evaluate their skills and identify their interests so that they can focus on building collections for their chosen target markets.

Prerequisites: HMEC 103, HMEC 201, HMEC 204, HMEC 205, HMEC 311, HMEC 312, HMEC 404.

Credit, three hours. 3.0 Lecture hours

### **HMEC-465 FASHION BRAND MANAGEMENT & MARKETING**

**3.1.2**

The course focuses on significance of brand management for fashion for fashion companies as a competitive strategy for building sales and customer base. It introduces to the essential elements branding and covers major activities of brand management and marketing with a focus on fashion firms. The course emphasizes the concept of integrated marketing communication, the effect of consumers' changing attitudes and how changes in technologies and distribution channels are driving communication and fashion promotion today. Prerequisites: HMEC 207, HMEC 307, HMEC 423

3.0 Credit hours; 3.0 Lecture 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.

Prerequisites: HMEC 207, HMEC 307.

Credit, three hours. 3.0 Lecture hours

# COLLEGE OF EDUCATION, HEALTH AND PUBLIC POLICY

**Dean:** Dr. Marshá T. Horton

**Associate Dean:** Dr. Jacqueline A. Washington

**Director of CEHPP Student Services Center:** Michele Rush

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 academic departments are Education, Nursing, Public and Allied Health Sciences and Social Work, and include graduate and undergraduate programs in Education and Social Work, and undergraduate programs in Nursing, Public Health and Kinesiology.

The strategic vision of the college is:

- To excel in delivering state-of-the-art educational programs that develop caring professionals who will be competent, serve the global community and be guided by 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 integrates theory with practice and engages the local and global community.

In addition to the academic programs in the College of Education, Health and Public Policy, there are two centers: The Student Services Center and the Delaware Center for Health Promotion. The Student Services Center has as its mission to mentor and assist students in goal-setting and establishing strategies to progress to advanced levels of education in the College of Education, Health and Public Policy and beyond. The mission of the Delaware Center for Health Promotion is to encourage DSU students, as well as the local community, to adopt healthier lifestyle habits in an effort to increase their quality of life and reduce the incidence of preventable illness.

## EDUCATION DEPARTMENT

**Education Department Chair:** Dr. Robert Martin

Senior Secretary: Ms. Brandi Besecker

**Director, Division of Graduate Studies:** Dr. Nirmaljit Rathee

Senior Secretary: Ms. Danielle Hicks

**Clinical and Field Experiences Director:** TBD

**Clinical and Field Experiences Coordinator:** Dr. Yvette Pierre

Senior Secretary: Ms. Sue Kelly

**Professors:** Dr. Kent Chrisman, Dr. Faith Newton

**Associate Professors:** Dr. Chandra Aleong, Dr. Joseph Falodun, Dr. Chet Gautam, Dr. Janet Hill, Dr. Keun Kim, Dr. Elaine Marker, Dr. Robert Martin, Richard. Phillips, Dr. Nirmaljit K. Rathee.

**Assistant Professors:** Dr. Donald Kern, Dr. Yvette Pierre, Dr. SaeYeol Yoon.

**Instructor:** Ms. Sabrina Bailey.

### **Content Area Coordinators:**

Early Childhood Education – Dr. Janet Hill

Elementary Education – Dr. Elaine Marker

Middle Level Education – Dr. Faith Newton

Physical Education – Dr. Robert Martin

**MAT** – Dr. Yvette Pierre

Educational Leadership (Ed. D & Masters) – TBD

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 and the Office of Graduate Programs.

Consistent with the University's Mission Statement, 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 of 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 Education, Middle Level Education, and Physical Education. Curricula are also provided for Educational Leadership (Masters and Doctoral). The Education Department is part of the Professional Education Unit (PEU), which serves as the administrative body for all teacher education programs at Delaware State University.

The Professional Education Unit has the following guiding principles that give focus to the total Teacher Education Program:

1. Every candidate should be proficient in the content area in which she/he elects to specialize.
2. Every candidate should have a professional disposition and a broad spectrum of instructional knowledge, skills, and dispositions to teach effectively within a diverse society.

3. Every candidate should embrace teaching as a dynamic process which is knowledge-based, comprehensive and continuous.
4. Every candidate should possess a wide range of communication skills.

The undergraduate and advanced programs are accredited by the Council for the Accreditation of Educator Preparation (CAEP).

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**

<b>D</b>	=	<b><u>Diversity</u></b>
<b>I</b>	=	<b><u>Interpersonal communication</u></b>
<b>R</b>	=	<b><u>Reflection</u></b>
<b>E</b>	=	<b><u>Effective Teaching and Assessment Strategies</u></b>
<b>C</b>	=	<b><u>Content and Pedagogical Knowledge</u></b>
<b>T</b>	=	<b><u>Technology</u></b>

#### **FIELD EXPERIENCES**

Early Field Experiences (EFE) are designed to assist students with linking pedagogical theories to practice in P-12 schools. There are three (3) phases of field experiences designed to give students a range of experiences with diverse populations, diverse age groups, and in diverse settings. The four phases are (1) Early Field Experiences; (2) Practicum Experiences; (3) Student Teaching I; and (4) Student Teaching II. Early field experiences provide teacher candidates with opportunities to observe students and teachers in classroom settings. Student Teaching I provides teacher candidates an opportunity to practice their teaching and classroom management strategies. Student Teaching II provides teacher candidates with an opportunity 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 result in a grade no higher than a D and the course must be repeated. Transportation to field placements is the responsibility of the student. Specification of numbers of hours for field placement are listed within the course descriptions and within the specific academic departments.

#### **EARLY CHILDHOOD LABORATORY SCHOOL**

Delaware State University operates an early childhood lab school that is housed in the College of Agriculture, Department of Family and Consumer Science. Education students perform early field experience hours by observing the children in the lab school.

## 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 Office of Student Services, located in the Price Building, Room 111 (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 (GPA) of 2.5 or higher on a 4.0 scale as of fall 2016.
3. Each applicant will present their introductory portfolio to a panel of faculty members for review.
4. The Chair of the Education Department together 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 for Professional Education.
5. Students admitted to the Teacher Education Program shall receive an approval letter, which must be presented to the Instructor for each 300-400 level methods course.
6. All declared Education majors will have an assigned Student Services Academic Advisor as well as a Faculty Advisor in their respective Programs.
7. Students who do not meet the admission requirements (1 through 7) must:
  - a. Meet with his/her Student Services Academic Advisor to develop a TEP Success Plan.
  - b. Sign a contract that specifies the Plan. Both the Student Services Academic 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.
8. 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 by student stating why he/she should be re-admitted.
9. Applicants meeting the Specific Admissions Criteria will be approved for admission to the Teacher Education Program.
10. 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 University 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 206) or (202 and 205), 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 II Requirement**

The 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 methods courses in their respective Departments.

## **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 Chairs 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.

### **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 attempt may apply the following semester if all requirements have been met.

## **POLICIES AND PROCEDURES: ADMISSION TO STUDENT TEACHING**

### **General Admission Criteria**

1. Student teaching I and II occurs during the last full year of enrollment prior to graduation and is considered the capstone experience for students in Teacher Education.
2. Student teaching I consists of two days per week for one (1) semester of an assigned, on-site practice. Student teaching II consists of five days per week for one semester of an assigned on site practice.
3. 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. Applications for student teaching are available online or in the Office of Clinical and Field Experiences in the Education and Humanities Building, Room 110.
4. Admission to the Teacher Education Program and satisfactory PRAXIS II scores are prerequisites for student teaching placement.
5. 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.
6. 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 senior status.

#### **Criteria 2: Grade Point Average**

Students must have a cumulative minimum grade point average (GPA) 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 “B” 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 passing scores, in the appropriate content area, must be attained and documented. Praxis II scores must be provided to the Office of Student Services and to the Office of Clinical and Field Experiences

#### **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 successfully complete student teaching should apply for a Delaware Initial Teaching Certificate through the DEEDS website.

#### **Waiver of Student Teaching (applicable to MAT students only)**

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, the 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 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 the Clinical and Field Experiences Director, or a designee by the Department Chair to evaluate the student's performance in an actual classroom setting.

### **Requirements for Teacher Education Majors**

#### **Health and Background Checks**

1. All students must have a T.B. test on record. T.B. tests are valid for 12 months and this documentation should be submitted to the Clinical and Field Experiences office prior to any school visit.
2. Delaware State law requires that individuals who are student teaching must have certification from a physician stating that they are in good health and free of any disease that would compromise or jeopardize others.
3. A state and federal criminal background check is to be completed, within 12 months, of the student teaching experience.

#### **Insurance**

1. Students should show evidence of health insurance coverage.
2. Students are responsible for liability insurance.

#### **Placement**

1. Students' geographic preferences are taken into consideration when making student teaching II placements; however, the final determination of placements is at the discretion of the Clinical and Field Experience Director and/or Chair of the Education Department.
2. Students are not allowed to make their own preparations for placement for student teaching or other field experiences and are prohibited from contacting any schools without permission from Clinical and Field Experience Director
3. Each academic program will provide supervision for its student teachers.

#### **Transportation**

1. 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 October 1 for the fall semester and March 1 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 EDUC-204 Philosophical Foundations of Education unless otherwise designated by the program coordinator.
5. Students are expected to obtain additional 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)**

There are four phases to field experiences at Delaware State University:

- Phase 1 - Early Field Experiences
- Phase 2 – Practicum Experiences
- Phase 3 - Student Teaching I
- Phase 4 - Student Teaching II

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.

**Performance Assessment (PPAT)**

Beginning July 1, 2016, candidates seeking an initial Delaware teaching license will have to demonstrate pedagogical skills and readiness by passing a performance assessment. Delaware Department of Education regulations require that all candidates graduating from teacher preparation programs must meet this expectation as an exit requirement. Student interns must post a passing score on the ETS PPAT (Praxis Performance Assessment for Teachers) in order to pass DSU course EDUC-400/500. The Delaware PPAT cut score will be 38 points (Max 60 points). Students receiving scores of 38 and above will receive 35% toward the final grade. Students scoring below the cut score of 38 receive 0% toward the final grade and therefore will not receive a passing grade for the course. Please refer to the website below for the ETS-PPAT information.

<https://www.ets.org/ppa/test-takers/teachers/prepare/>

**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, who serves as the CPE Chair, the Dean of the College of Education, Health and Public Policy, the Director, Clinical & Field Experience, the Director, Office of Graduate Programs, the Elementary Education Program Coordinator, the Middle Level Program Coordinator, the Early Childhood Education Coordinator, the Physical Education Program Coordinator, the Special Education Program Coordinator, 3 teacher candidates in educational programs, 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. To the Chair of the Education Department.
2. To the Council for Professional Education.
3. To the Dean of the College of Education, Health and Public Policy.

**B.S. DEGREE IN EARLY CHILDHOOD EDUCATION  
(Birth through Grade 2)  
Effective Fall 2014**

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-101	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
EDUC-204	Philo Foundations of Education*	3	GEOG-201	World Regional Geography	3
	Total Credits	18		Total Credits	18
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
EDUC-257	Motor Dev./Movmt. Educ. for Children	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/ GLOB-395	Multicultural Educ. /Global Societies	3	EDUC-335	Developmental Reading in Elementary Schools	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 Chhd & Primary Grades	3	EDUC-337	Curr. Intgrtn. In ECE Pract II	4
	Total Credits	16		Total Credits	16
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 Primary and Practicum III	4			
	Total Credits	14		Total Credits	12

Students must take ENGL-201 and ENGL-206 OR ENGL 202 and ENGL-205 to fulfill the Literature and African American Experience requirements for General Education. Students 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.

**There is no concentration for this major.**

Non-courses requirements for the major: Minimum GPA 2.5, Praxis I/Core scores: Reading – 156, Writing – 162, Mathematics – 150.

**Major courses:**

Subject Code	Course Number	Course Name	Number of Credits
EDUC	191	University Seminar I for Education Majors	1
EDUC	192	University Seminar II for Education Majors	1
EDUC	204	Philosophical Foundations of Education	3
EDUC	205	Child Growth & Development	3
EDUC	206	Introduction to Early Childhood Education	3
EDUC	207	Life Span Development	3
EDUC	257	Motor Development/Movement Education Children	3
EDUC	313	Intro to Education of Children w/ Exceptional Needs	3
EDUC	315	Parents, Families, & Community Partnerships	3
EDUC	318	Multicultural Education	3
EDUC	319	Math Curriculum in Early Childhood/Primary Grades	3
EDUC	325	Language & Literature Development	3
EDUC	329	Curriculum for Infant/Toddler Care – ECE Practicum I	4
EDUC	333	Methods of Teaching Students w/ Exceptional Learning Needs	3
EDUC	335	Developmental Reading in Elementary Schools	3
EDUC	337	Curriculum Integration in ECE – Practicum II	4
EDUC	338	Curriculum Integration Practicum III	4
EDUC	344	Instructional Technology in Education	3
EDUC	345	Administration of Early Childhood Education	3
EDUC	400	Student Teaching	12
EDUC	401	Assessment of Young Children	3
EDUC	416	Analysis of Student Teaching	1
PSED	201	Physical Science Survey	3

**General Education Breadth courses:**

Breadth Area	Any Approved Course or list course/courses
Literature (three credits)	ENGL 201, ENGL 202, ENGL 205, ENGL 206
History (three credits)	HIST 201
Mathematics (three or four credits)	MTSC 105, MTSC 106, MTSC 205
Natural Science with Laboratory (three or four credits)	PSED 207, BIOL 110
Social Science (three credits)	GEOG 201, PSYC 201
Arts/Humanities (two three-credit courses)	ART 101, MUSC 101

**Across-the-Curriculum (A-t-C)**

<b>Program/Major</b>		Early Childhood Education
<b>Concentration (if applicable)</b>		
<b>Effective Date</b>		Spring 2014
<b>A-t-C Outcome</b>	<b>Course(s)</b>	<b>Course Name(s)</b>
Reading	EDUC 204	Philosophical Foundations of Education

<b>Writing Intensive or Writing in Major (outside capstone)</b>	EDUC 345	Administration of Early Childhood Education
	EDUC 401	Assessment of Young Children
<b>Speaking – Oral Communication – Presentation</b>	EDUC 204	Philosophical Foundations of Education
<b>Speaking – Oral Communication – Discussion</b>	EDUC 204	Philosophical Foundations of Education
<b>Listening</b>	EDUC 204	Philosophical Foundations of Education
<b>Computer Competency</b>	EDUC 344	Instructional Technology in Education
<b>Information Literacy</b>	EDUC 204	Philosophical Foundations of Education
<b>Critical Thinking/Problem Solving</b>	EDUC 357	Effective Teaching Strategies & Classroom Management
<b>Quantitative Reasoning</b>	MTSC 106, 205 EDUC 319	Math II, III for Teachers Math Curriculum in Early Childhood & Primary Grades
<b>Multicultural</b> 6 credits (choose two)	Foreign Language I AND Foreign Language II	Foreign Language I AND Foreign Language II
<b>African-American Experience</b>	ENGL 205 or ENGL 206	African American Literature I or African American Literature II
<b>Self-Evaluation</b>	EDUC 204	Philosophical Foundations of Education
<b>Wellness</b>	EDUC 257	Motor Development/Movement Education for Children
<b>Global Issues</b>	GEOG 201	World Regional Geography

## ELEMENTARY EDUCATION

### Grades K- 6

**Effective: Fall 2017**

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 (Required to <i>take</i> /PRAXIS I)				
Course	Course Name	Sem	Cr	Gr	Course	Course Name	Sem	Cr	Gr
EDUC 191	University Seminar I		1		EDUC 192	University Seminar II		1	
ENGL101	English Composition I		3		ENGL 102	English Composition II		3	
MVSC 101	Fitness and Wellness		2		MTSC 202	Math for Teachers II		3	
EDUC101 or EDUC 105 or BIOL110 (spring only)	General Biology or Basic Ecology Essential Topics in Biology		4		EDUC 205	Child Growth & Development		3	
MTSC 201	Math for Teachers I		3		ART 101 OR	Introduction to Art			
XXXX101	Foreign Language I		3		MUSC 101	Introduction to Music		3	
					PSYC 201	General Psychology		3	
<b>Total Credits</b>			<b>16</b>		<b>Total Credits</b>			<b>16</b>	
Sophomore Fall Semester					Sophomore Spring Semester (MUST PASS PRAXIS I by now)				
Course	Course Name	Sem	Cr	Gr	Course	Course Name	Sem	Cr	Gr
ENGL 205	African American Literature I		3		PSED 207	Earth/Space Science		3	
EDUC 204	Philosophical Foundations of Ed.		3		GEOG 201	World Regional Geography		3	
MTSC 205	Math for Teachers III		3		HIST 202	American History from 1865		3	
HIST 201	American History to1865		3		EDUC 313	Intro to Educ of Children w/Except Needs		3	
EDUC 315	Parents, Families, & Community Partnership		3		EDUC 344	Instructional Technology		3	
					ENGL 200	Speech		3	
<b>Total Credits</b>			<b>15</b>		<b>Total Credits</b>			<b>18</b>	
Junior Fall Semester					Junior Spring Semester				
Course	Course Name	Sem	Cr	Gr	Course	Course Name	Sem	Cr	Gr
PSED 201	Physical Science Survey		3		EDUC 303	Methods of Teaching Soc. Studies Elem/MS		3	
EDUC 318/ GLOB 395	Multicultural Educ/Global Societies		3		EDUC 335	Developing Reading in Elem School (K-6)		3	
EDUC 321	Diagnostic Assessment & IEP Development		3		EDUC 340	Integrating Children's Lit. Through Lang. Arts		3	
EDUC 306	Methods of Teaching Math Elementary/ML (Fall Only)		3		EDUC 346	Behavioral Analysis and Modification		3	
EDUC 325	Language and Literacy Development		3		EDUC 311	Curriculum and Instructional Methods of Teaching Children with Exceptional Needs, K-12		3	
					EDUC 257	Motor Development/ Movement Education for Young Children		3	
<b>Total Credits</b>			<b>15</b>		<b>Total Credits</b>			<b>18</b>	

Senior Fall Semester					Senior Spring Semester				
Course	Course Name	Sem	Cr	Gr	Course	Course Name	Sem	Cr	Gr
EDUC 416	Analysis of Student Teaching		1		EDUC 400	Student Teaching**		12	
EDUC 324	Integrating the Diagnostic Teaching of Literacy into Classroom Instruction, K-12		3						
EDUC 423	Assessment Strategies Fall Only		3						
EDUC 331A	Methods of Teaching Science in Elementary and Middle Level Fall Only		3						
+EDUC 357	Effective Teaching Strategies Classroom Management (with Student Teaching I only)		4						
			<b>Total Credits</b>	<b>14</b>				<b>Total Credits</b>	<b>12</b>

+EDUC 357 must be taken with EDUC 416 during Student Teaching I

Students must take ENGL-201 and ENGL-206 OR ENGL-202 and ENGL-205 to fulfill the Literature and African American Experience requirements for General Education. Students must pass Praxis I and apply for the Teacher Education Program by the end of the sophomore year and pass Praxis II before student teaching.

**Credits < 124>**

**\*\* Senior Capstone**  
**\* Writing Intensive**

**There is no concentration for this major.**

Non-courses requirements for the major: Minimum GPA 2.5, Praxis I/Core scores: Reading – 156, Writing – 162, Mathematics – 150.

**Major courses:**

Subject Code	Course Number	Course Name	Number of Credits
EDUC	191	University Seminar I for Education Majors	1
EDUC	192	University Seminar II for Education Majors	1
EDUC	204	Philosophical Foundations of Education	3
EDUC	205	Child Growth & Development	3
EDUC	303	Methods of Teaching Social Studies Elementary/Middle School	3
EDUC	306	Methods of Teaching Mathematics Elementary/Middle School	3
EDUC	313	Intro to Education of Children w/ Exceptional Needs	3
EDUC	315	Parents, Families, & Community Partnerships	3
EDUC	318	Multicultural Education	3
EDUC	321	Diagnostic Assessment & IEP Development	3
EDUC	324	Integrating Diagnostic Teaching of Literacy into K-12 Classroom Instruction	3
EDUC	325	Language & Literacy Development	3
EDUC	331A	Methods of Teaching Science Elementary/Middle School	3
EDUC	335	Developing Reading in Elementary Schools (K-6)	3
EDUC	340	Integrating Children’s Literature Through Language Arts	3
EDUC	344	Instructional Technology in Education	3
EDUC	346	Behavioral Analysis & Modification	3
EDUC	357	Effective Teaching Strategies/ Classroom Management	4
EDUC	400	Student Teaching	12
EDUC	416	Analysis of Student Teaching	1
EDUC	423	Assessment Strategies	3
PSED	201	Physical Science Survey	3
PSED	207	Earth/Space Science	3

**General Education Breadth courses:**

Breadth Area	Any Approved Course or list course/courses
Literature (three credits)	ENGL 201, ENGL 202, ENGL 205
History (three credits)	HIST 202
Mathematics (three or four credits)	MTSC 201, MTSC 202, MTSC 205
Natural Science with Laboratory (three or four credits)	PSED 207, BIOL 101, BIOL 105, BIOL 110
Social Science (three credits)	GEOG 201, PSYC 201
Arts/Humanities (two three-credit courses)	ART 101, MUSC 101

**Across-the-Curriculum (A-t-C)**

<b>Program/Major</b>		Elementary Education
<b>Concentration (if applicable)</b>		
<b>Effective Date</b>		Fall 2017
<b>A-t-C Outcome</b>	<b>Course(s)</b>	<b>Course Name(s)</b>
<b>Reading</b>	EDUC 204 EDUC 335	Philosophical Foundations of Education Dev’tl Reading Practicum Elem Schools (K-8)
<b>Writing Intensive or Writing in</b>	EDUC 423	Assessment Strategies

<b>Major (outside capstone)</b>		
<b>Speaking – Oral Communication – Presentation</b>	EDUC 204 EDUC 335	Philosophical Foundations of Education Dev'tl Reading Practicum Elem Schools (K-8)
<b>Speaking – Oral Communication – Discussion</b>	EDUC 204 EDUC 335	Philosophical Foundations of Education Dev'tl Reading Practicum Elem Schools (K-8)
<b>Listening</b>	EDUC 204 EDUC 335	Philosophical Foundations of Education Dev'tl Reading Practicum Elem Schools (K-8)
<b>Computer Competency</b>	EDUC 344	Instructional Technology in Education
<b>Information Literacy</b>	EDUC 204	Philosophical Foundations of Education
<b>Critical Thinking/Problem Solving</b>	EDUC 357	Effective Teaching Strategies & Classroom Management
<b>Quantitative Reasoning</b>	MTSC 202, 205 EDUC 306	Math II, III for Teachers Methods of Teaching Math Elementary/Mid Level
<b>Multicultural</b> 6 credits (choose two)	Foreign Language I AND Foreign Language II	Foreign Language I AND Foreign Language II
<b>African-American Experience</b>	ENGL 205	African American Literature I
<b>Self-Evaluation</b>	EDUC 204	Philosophical Foundations of Education
<b>Wellness</b>	PSYC 201	Introduction to Psychology
<b>Global Issues</b>	GEOG 201	World Regional Geography

**B.S. DEGREE IN MIDDLE LEVEL EDUCATION (6-8)**  
**Effective Fall 2017**

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 ( <i>College Algebra A &amp; B may be sub only for non-Math concentration majors</i> )	3	MTSC 241	Elementary Statistics	3
_____ 101	Foreign Language I	3	EDUC 204	Philo. Found. of Education* (10 hrs)	3
MVSC 101	Lifetime Fitness & Wellness	2	_____ 102	Foreign Language II	3
PSYC 201	Intro to Gen Psychology	3	PSED 207	Earth/Space Science	3
		Total Credits	15		
				Total Credits	16
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
EDUC 208	The Middle School Years (10 hrs) – (Taught Every Other Year)	3	HIST 101	World History to the 16 <sup>th</sup> Century <b>OR</b>	3
ENGL 200	Speech	3	HIST 102	World History from the 16 <sup>th</sup> Century	3
_____	Content Area Elective	3	ENGL 205	African American Lit I <b>OR</b>	
_____	Content Area Elective	3	ENGL 206	African American Lit II	3
_____	Content Area Elective	3	EDUC 313	Intro to the Education of Children w/ Exceptional Needs	3
			_____	Content Area Elective	3
			_____	Content Area Elective	3
		Total Credits	15		
				Total Credits	15
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
EDUC 348	Introduction to Teaching, Learning, and Family Involvement in Middle Schools (Taught Every Other Year)	3	_____	Content Area Elective	3
_____	Content Area Elective	3	_____	Content Area Elective	3
_____	Content Area Elective	3	_____	Content Area Elective	3
_____	Content Area Elective	3	EDUC 332	Curr/Instr in Middle Level Education/Practicum (20 hrs)	3
EDUC 306	Meth of Tchg Math (20 hrs) <b>OR</b>	3			
HIST 445	Meth of Tchg Soc Std (20 hrs) <b>OR</b>	3	EDUC 210	Meth of Tchg Science (20 hrs) <b>OR</b>	3
ENGL	Meth of Tchg Engl (20 hrs)	3	EDUC 311	Curriculum and Instructional Meth of Tchg	3

404				Students with Exceptional Learning Needs, K-12	
	Total Credits	15		Total Credits	15
<b>Senior Fall 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>
---	Content/Education Area Elective	3	EDUC 400	Student Teaching**	12
EDUC 344	Instructional Technology	3			
EDUC 357	Effective Tchg Strt/Clrm/Mgt (2 days a week in the classroom)	4			
EDUC 416	Analysis of Student Teaching	1			
EDUC 423	Assessment Strategies	3			
EDUC 318/ GLOB 395	Multicultural Education / Glob Societies	3			
	Total Credits	17		Total Credits	12

Students must take ENL-201 and ENGL-206 OR ENGL 202 and ENGL 205 to fulfill the Literature and possible African American Experience requirement for General Education. Students must pass Praxis II before student teaching.

The content is reflective of a four-credit course and is writing intensive.

\* Multicultural Ed satisfies Global Societies, General Ed requirement; however, GLOB-395 cannot replace EDUC-318

\*\* Senior Capstone

\*Writing Intensive Course(s)

Credits <120>

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

All Middle Level Education majors are required by the University to have two content area concentrations for certification. The following specialty programs have identified minimum requirements for obtaining concentration status. Middle Level students must take 21 hours in one concentration area and 24 hours in the second concentration area. Courses with an asterisk (\*) are required in the concentration.

Non-courses requirements for the major: Minimum GPA 2.5, Praxis I/Core scores: Reading – 156, Writing – 162, Mathematics – 150.

**Major courses:**

Subject Code	Course Number	Course Name	Number of Credits
EDUC	191	University Seminar I for Education Majors	1
EDUC	192	University Seminar II for Education Majors	1
EDUC	204	Philosophical Foundations of Education	3
EDUC	208	The Middle School Years	3
EDUC	313	Intro to Education of Children w/ Exceptional Needs	3
EDUC	318	Multicultural Education	3
EDUC	332	Curriculum & Instruction in Middle School	3
EDUC	344	Instructional Technology in Education	3
EDUC	348	Intro to Teaching, and Family Involvement in Middle Schools	3
EDUC	357	Effective Teaching Strategies/ Classroom Management	4
EDUC	400	Student Teaching	12
EDUC	416	Analysis of Student Teaching	1
EDUC	423	Assessment Strategies	3
PSED	207	Earth/Space Science	3

**Concentration Name: Mathematics**

Subject Code	Course Number	Course Name	Number of Credits
MTSC*	201*	MTSC 201 Math for Teachers I	3
MTSC*	202*	MTSC 202 Math for Teachers II	3
MTSC*	122*	MTSC 122 Trigonometry	3
MTSC*	121*	MTSC 121 College Algebra	3
MTSC*	203*	MTSC 203 College Geometry	3
MTSC*	241*	MTSC 241 Elementary Statistics	3
MTSC	125	MTSC 125 Finite Math (optional)	3
MTSC	213	MTSC 213 Discrete Math (optional)	3
MTSC	251	Calculus 1 (optional)	3

**Concentration Name: Science**

Subject Code	Course Number	Course Name	Number of Credits
CHEM*	101*	General and Elem. Analytical Chemistry I	4
CHEM*	102*	General and Elem. Analytical Chemistry II	4
BIOL*	110*	Essential Topics in Biology	4
PHYS*	121*	Concepts of Physics I	3
PHYS*	122*	Concepts of Physics II	3

PSED*	207*	Earth/Space Science	3
PHYS	133/533	Energy (optional)	3
AVIA	211	Meteorology (optional)	3
BIOL	105	Basic Ecology (optional)	3

**Concentration Name: English Language Arts**

Subject Code	Course Number	Course Name	Number of Credits
ENGL*	105*	Basic Study of Literature	3
ENGL*	205/206*	African American Literature I <b>OR</b> African American Literature II	3
ENGL*	204/410*	Linguistics <b>OR</b> Structure of Modern English	3
ENGL*	305*	American Literature I	3
ENGL*	311*	Advanced Composition	3
ENGL*	329*	Adolescent Literature	3
ENGL	201	World Literature I (optional)	3
ENGL	202	World Literature II (optional)	3
ENGL	301	English Literature I (optional)	3
ENGL	302	English Literature II (optional)	3
ENGL	306	American Literature II (optional)	3
ENGL	400	Teaching Grammar and Composition (optional)	3

**Concentration Name: Social Studies**

Subject Code	Course Number	Course Name	Number of Credits
HIST*	101	World History to the 16th Century <b>OR</b>	3
HIST*	102*	World History from the 16th Century	3
POLS*	200*	American Government	3
GEOG*	201*	World Regional Geography ( <b>required for Social Studies Concentration</b> )	3
HIST*	201*	American History to 1865 (Note: HIST 290, 303 – 307 may be substituted)	3
HIST*	202*	American History since 1865 (Note: HIST 290, 303 – 307 may be substituted)	3
ECON*	201*	Macroeconomics	3
ECON	202	Microeconomics (optional)	3
HIST	290	Intro to Historical Methods (optional)	3
HIST	303	Colonial & Revolutionary America 1492 - 1789 (optional)	3
HIST	304	Growth of the American Republic (optional)	3
HIST	305	American Rise to Power (optional)	3
HIST	306	Modern America, 1919 to Present (optional)	3
HIST	307	Progressive and Modern Era 1896 to 1945 (optional)	3
HIST	322	Modern Europe (optional)	3

**Concentration Name: Special Education**

Subject Code	Course Number	Course Name	Number of Credits
EDUC*	311*	Curriculum and Instructional Methods for Children with Exceptional Needs (Spring)	3
EDUC*	313*	Introduction to Education of Exceptional Children (Spring)	3
EDUC*	321*	Diagnostic Assessment and IEP Development (Fall)	3
EDUC*	324*	Diag & Remediation of Reading Instruction (Fall)	3
EDUC*	346*	Behavior Analysis and Modification for Children with Exceptional Needs (Spring)	3
EDUC		Open Education Elective	3
EDUC		Open Education Elective	3

**General Education Breadth courses:**

Breadth Area	Any Approved Course or list course/courses
Literature (three credits)	ENGL 201, ENGL 202, ENGL 205, ENGL 206
History (three credits)	HIST 201
Mathematics (three or four credits)	MTSC 121, MTSC 241
Natural Science with Laboratory (three or four credits)	BIOL 110
Social Science (three credits)	PSYC 201
Arts/Humanities (two three-credit courses)	ART 101, MUSC 101

**Across-the-Curriculum (A-t-C)**

Program/Major		Middle Level Education
Concentration (if applicable)		
Effective Date		Fall 2017
A-t-C Outcome	Course(s)	Course Name(s)
Reading	EDUC 204	Philosophical Foundations of Education
Writing Intensive or Writing in Major (outside capstone)	EDUC 204 EDUC 423	Philosophical Foundations of Education Assessment Strategies
Speaking – Oral Communication – Presentation	EDUC 204	Philosophical Foundations of Education
Speaking – Oral Communication – Discussion	EDUC 204	Philosophical Foundations of Education
Listening	EDUC 204	Philosophical Foundations of Education
Computer Competency	EDUC 344	Instructional Technology in Education
Information Literacy	EDUC 204	Philosophical Foundations of Education
Critical Thinking/Problem Solving	EDUC 357	Effective Teaching Strategies & Classroom Management
Quantitative Reasoning	MTSC 241	Elementary Statistics

<b>Multicultural</b> 6 credits (choose two)	Foreign Language I AND Foreign Language II	Foreign Language I AND Foreign Language II
<b>African-American Experience</b>	ENGL 205 or ENGL 206	African American Literature I or African American Literature II
<b>Self-Evaluation</b>	EDUC 204	Philosophical Foundations of Education
<b>Wellness</b>	PSYC 201	Introduction to General Psychology
<b>Global Issues</b>		

**B.S. DEGREE IN PHYSICAL EDUCATION (K-12)**  
**Effective Fall 2009**

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-101	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: ART-101, MUSC-100, MUSC-101, ENGL-113, PHIL-201, PHIL-202, PHIL-105)"			Select one of the following courses: HIST-201, HIST-202, HIST-203, HIST-204)		
Total Credits		16	Total Credits		15
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-200	Speech	3	MVSC-202	Human Anatomy & Physiology w/Lab	4
MVSC-201	Human Anatomy & 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 courses: ENGL-201 and ENGL-206 OR ENGL-202 and ENGL-205)		
Total Credits		16	Total Credits		16
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PSYC-201	Intro to Psychology	3	EDUC-318/ GLOB-395	Multi Ed with Glob Soc	3

EDUC-344	Instr Tech in Education	3	EDUC-257	Motor Dev/Mvmnt Ed	3
MVSC-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 and ENGL-206 OR ENGL-205 & ENGL-202)			MVSC-361	Sport Biomechanics	3
Total Credits				Total Credits	15

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

Students must take ENGL-201 and ENGL-206 OR ENGL-202 and ENGL-205 to fulfill the Literature and African American Experience requirements for General Education. Students must pass Praxis II before student teaching.

\*\* Senior Capstone

\* Writing Intensive Course(s)

Credits < 122 >

**There is no concentration for this major.**

Non-courses requirements for the major: Minimum GPA 2.5, Praxis I/Core scores: Reading – 156, Writing – 162, Mathematics – 150.

**Major courses:**

Subject Code	Course Number	Course Name	Number of Credits
EDUC	191	University Seminar I for Education Majors	1
EDUC	192	University Seminar II for Education Majors	1
EDUC	124	Teaching Fitness/Physical Activity Concepts	3
EDUC	204	Philosophical Foundations of Education	3
EDUC	221	Movement Education: Skill Theme Approach	3
EDUC	223	Teaching Territorial Games	3
EDUC	231	Teaching Net & Wall Games	3
EDUC	236	Teaching Target & Field Games	3
EDUC	241	Instructional Strategies	3
EDUC	253	History & Principles of Physical Education	3
EDUC	257	Motor Development/Movement Education Children	3
EDUC	318	Multicultural Education	3
EDUC	344	Instructional Technology in Education	3
EDUC	357	Effective Teaching Strategies/ Classroom Management	4
EDUC	358	Adapted Physical Education	3
EDUC	363	Adventure-Based Education	3
EDUC	368	Analysis/Assessment of Teaching Physical Education	3
EDUC	371	Contemporary Curriculum Models	3
EDUC	400	Student Teaching	12
EDUC	416	Analysis of Student Teaching	1
EDUC	449	Methods of Teaching Elementary Physical Education	3
EDUC	453	Methods of Teaching Secondary Physical Education	3

**Other required courses for the major:**

Subject Code	Course Number	Course Name	Number of Credits
MVSC	201	Anatomy/Physiology I w/ Lab	4
MVSC	202	Anatomy/Physiology II w/ Lab	4
MVSC	355	Physiology of Exercise	3
MVSC	361	Sport Biomechanics	3

**General Education Breadth courses:**

Breadth Area	Any Approved Course or list course/courses
Literature (three credits)	ENGL 201, ENGL 202, ENGL 205, ENGL 206
History (three credits)	HIST 201/ HIST 202/ HIST 203/ HIST 204
Mathematics (three or four credits)	MTSC 101, MTSC 102
Natural Science with Laboratory (three or four credits)	MVSC 201, MVSC 202
Social Science (three credits)	PSYC 201
Arts/Humanities (two three-credit courses)	ART 101/ MUSC 100/ MUSC 101/ ENGL 113/ PHIL 201/ PHIL 202/ PHIL 105

**Across-the-Curriculum (A-t-C)**

<b>Program/Major</b>		Physical Education
<b>Concentration (if applicable)</b>		
<b>Effective Date</b>		Spring 2014
<b>A-t-C Outcome</b>	<b>Course(s)</b>	<b>Course Name(s)</b>
<b>Reading</b>	EDUC 204 HIST 201	Philosophical Foundations of Education American History to 1865
<b>Writing Intensive or Writing in Major (outside capstone)</b>	EDUC 204 EDUC 357 EDUC 416	Philosophical Foundations of Education Effective Teaching Strategies/Classroom Mgmt Analysis of Student Teaching
<b>Speaking – Oral Communication – Presentation</b>	EDUC 204	Philosophical Foundations of Education
<b>Speaking – Oral Communication – Discussion</b>	EDUC 204	Philosophical Foundations of Education
<b>Listening</b>	EDUC 204	Philosophical Foundations of Education
<b>Computer Competency</b>	EDUC 344	Instructional Technology in Education
<b>Information Literacy</b>	EDUC 204	Philosophical Foundations of Education
<b>Critical Thinking/Problem Solving</b>	EDUC 357	Effective Teaching Strategies & Classroom Management
<b>Quantitative Reasoning</b>	MTSC 102	Survey of Math II
<b>Multicultural</b> 6 credits (choose two)	Foreign Language I AND Foreign Language II	Foreign Language I AND Foreign Language II
<b>African-American Experience</b>	ENGL 205 or ENGL 206	African American Literature I or African American Literature II
<b>Self-Evaluation</b>	EDUC 204	Philosophical Foundations of Education
<b>Wellness</b>	EDUC 124	Teaching Fitness and Physical Activity Concepts
<b>Global Issues</b>	EDUC 253	History & Principles of Physical Education

## **PRE-EDUCATION AND EDUCATION (EDUC)**

### **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. Pre-Physical Education majors only  
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. Pre-Physical Education majors only.  
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. Pre-Physical Education majors only.  
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, and volleyball. Pre-Physical Education majors only.  
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. Pre-Physical Education majors only  
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. Pre-Physical Education majors only.

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. Pre-Physical Education majors only.

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-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 GLOB-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-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-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-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-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-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. Pre-Physical Education majors only.

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. Pre-Physical Education majors only.

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. Pre-Physical Education majors only.

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-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-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-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. Physical Education majors only.

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. Physical Education majors only.

Prerequisites: Admission to TEP.

Credit, three hours.

**PHYSICAL SCIENCES (PSED)**

**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.

## DEPARTMENT OF NURSING

Chair: Dr. A. Richardson

Associate Professor: Dr. Akey, Dr. Danz, Dr. Grant, Dr. Richardson, Dr. Sando

Assistant Professor: Dr. Bell-Rogers

Computer Lab Coordinator: Mrs. Barksdale

Clinical Skills Lab Coordinator: Mrs. Lord

Office Staff: Miss Cookie Shockley

The Nursing Program prepares students to become 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 undergraduate nursing program is grounded in academic excellence, and students who are qualified and seeking preparation for professional nursing practice are admitted competitively into the program.

Preparation for professional nursing practice demands dedication and commitment to scholarly activities 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 provide exceptional educational opportunities for students of diverse backgrounds to prepare entry level nurses to practice competently and safely in a variety of health care settings, including preparation for future specialization and/or graduate study.

The nursing curriculum consists of four (4) academic years. The student will take two (2) years of pre-professional courses and apply for the professional phase of the nursing major during their sophomore year. Professional phase nursing courses include both nursing theory and related laboratory and clinical study. A variety of health care agencies including hospitals, long term care facilities, clinics, and community health settings, provide opportunities for clinical. Clinical laboratory practice is also provided in a state-of-the-art simulation laboratory.

Following the successful completion of the program, graduates will receive a Bachelor of Science degree, with a major in Nursing, and will be eligible to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN) administered by the National Council of State Boards of Nursing.

Each applicant must follow the general admission procedures of the University, and the Department of Nursing has a separate process for admission to the Nursing major. In addition, prospective students should have taken high school Chemistry, Biology, and Mathematics.

The Nursing Program has full approval status from the Delaware Board of Nursing.

861 Silver Lake Blvd, Ste. 203

Dover, DE 19904

302-744-4500

The Nursing Program is fully accredited by the Accreditation Commission for Education in Nursing.

3343 Peachtree Road NE, Suite 850

Atlanta, GA 30326

Phone: 404-975-5000

**Special Nursing Policies:**

A nursing student must maintain a minimum grade of 80% which is a "B" or higher in all junior and senior nursing courses, and the student MUST earn a 90% or higher on the ATI comprehensive predictor exam (two (2) attempts) taken in the senior spring semester. Students must also maintain an overall grade point average of 3.0 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. Students are allowed to transfer to the University two (2) of their required science courses.

**Dismissal Policy:**

A student enrolled in the nursing program who 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. Other reasons for dismissal are located in the current Nursing Student Handbook.

Please Note: A nursing course once failed still counts as one failure even after the course has been successfully repeated.

Additional information can be found on the Department of Nursing's website:

<https://cehpp.desu.edu/departments/nursing>

**NURSING**  
**Program of Study, Effective Fall 2015**

Freshman Fall Semester					Freshman Spring Semester				
Course	Course Name	Sem	Cr	Gr	Course	Course Name	Sem	Cr	Gr
NURS-191	University Seminar I	GE	1		NURS-192	University Seminar II	GE	1	
BIOL-207	Anatomy & Physiology I		4		BIOL -208	Anatomy & Physiology II		4	
MTSC-121	College Algebra	GE	3		MTSC-241	Statistics		3	
ENGL-101	English Comp. I	GE	3		ENGL-102	English Comp. II	GE	3	
HIST-xxx	History♦■	GE	3		SCCJ-101	Intro. to Sociology ♦	GE	3	
PSYC- 201	Intro to Psychology	GE	3		****	Arts/Humanities ■ ♦	GE	3	
	<b>Total Credits</b>		<b>17</b>			<b>Total Credits</b>		<b>17</b>	
Sophomore Fall Semester					Sophomore Spring Semester				
Course	Course Name	Sem	Cr	Gr	Course	Course Name	Sem	Cr	Gr
MVSC-101	Fitness and Wellness	GE	2		GLOB-395	Global Societies	GE	3	
ENGL-200	Speech	GE	3		NURS-204	Pathophysiology in Nursing	SO	3	
BIOL -221	Fund. of Microbiology	FO	4		ENGL-xxx	Literature ♦■	GE	3	
NURS-300 or PSYC-316	Growth and Development Across the Lifespan or Developmental Psych		3		NURS-207	Pharmacology in Nursing		3	
MVSC-212	Medical Terminology		3		****	Arts/Humanities ■ ♦	GE	3	
NURS-210 or PHL-101	Clinical Reasoning or Critical Thinking		2 3						
	<b>Total Credits</b>		<b>17/ 18</b>			<b>Total Credits</b>		<b>15</b>	
Junior Fall Semester					Junior Spring Semester				
Course	Course Name	Sem	Cr	Gr	Course	Course Name	Sem	Cr	Gr
NURS-307	Intro to Nursing Practice		5		NURS-310	Nursing Research*		3	
NURS-308	Health Assessment		3		NURS-311	Child & Family Nursing		5	
NURS-309	Mental Health Nursing		5		NURS-316	Adult Health Nursing I		5	
					NURS_***	NURS Elective (314 or 420)		3or 2	
	<b>Total Credits</b>		<b>13</b>			<b>Total Credits</b>		<b>16</b>	
Senior Fall Semester					Senior Spring Semester				
Course	Course Name	Sem	Cr	Gr	Course	Course Name	Sem	Cr	Gr
NURS-400	Adult Health Nursing II		5		NURS-409	Community Health Nursing		5	
NURS-405	Nursing Leadership*		3		NURS-417	Contemporary Issues in Nursing		3	
NURS-408	Maternal Newborn Nursing		5		NURS-419	Transition to Professional Nursing**		5	
	<b>Total Credits</b>		<b>13</b>			<b>Total Credits</b>		<b>13</b>	

\*\* Senior Capstone  
 \*Writing Intensive  
 SO – Spring Only  
 FO – Fall Only  
 B – Both Sem.  
 V – Variable

Credits 120/ 122  
 67/69 Nursing  
 53 Gen Ed and Sciences

♦ Satisfies the Multicultural across-the-curriculum  
 Requirement (two courses required)  
 ■ Must take at least one African American course in  
 one of the designated areas

\*\*\* Elective to be determined by NURSING DEPARTMENT

**Department of Nursing**  
**Major Name: NURSING**

**Student Learning Outcomes:**

- Plan, provide, and delegate patient-centered care and coordinated care that promotes safe and high quality outcomes.
- Develop the ability to use interdisciplinary communication effectively and employ patient care technologies, information systems, and communication devices that support safe nursing practice.
- Synthesize leadership concepts, principles, and ethical reasoning in decision making to ensure quality outcomes in providing client care in a variety of settings.
- Integrate professional standards in the practice of nursing with integrity, caring, accountability, respect, and excellence in nursing practice.
- Collaborate with clients and healthcare professionals to provide safe, effective, and culturally competent nursing care through the integration of knowledge and skills.
- Synthesize knowledge, skills, and professional attitudes through the demonstration of clinical reasoning.

**Faculty who currently teach in this major:**

Chair: Dr. A. Richardson

Associate Professor: Dr. Akey, Dr. Danz, Dr. Grant, Dr. Richardson, Dr. Sando

Assistant Professor: Dr. Bell-Rogers

**A concentration is not required for this major.**

**Non-course requirements for the major:**

A minimal Grade Point Average (GPA) for admission is 3.0.

All pre-requisite courses must be completed in the spring of applying semester.

Students will be allowed to repeat one identified Science course (A&P I, A&P II, Microbiology, Pathophysiology).

Students will be allowed to transfer in two of the four identified Science courses.

Two (2) science courses must be completed at Delaware State University.

Science courses that are 5 years or older will not be transferrable.

A pre-admission exam is required.

**Major courses:**

Subject Code	Course Number	Course Name	Number of Credits
NURS	307	Introduction to Nursing Practice	5
NURS	308	Health Assessment	3
NURS	309	Mental Health Nursing	5
NURS	310	Nursing Research	3
NURS	311	Child and Family Nursing	5
NURS	316	Adult Health Nursing I	5
NURS	400	Adult Health II	5
NURS	408	Maternal Newborn Nursing	5
NURS	405	Nursing Leadership	3
NURS	409	Community Health Nursing	5
NURS	417	Contemporary Issues in Nursing	3
NURS	419	Transition to Professional Nursing	5

**Major Electives:**

Subject Code	Course Number	Course Name	Number of Credits
NURS	314	Nursing Informatics and Technology	3
NURS	420	Social, Political Issues and Trends in Nursing	2

**Other required courses for the major:**

Subject Code	Course Number	Course Name	Number of Credits
NURS	300	Growth and Development or	3
PSYC	316	Developmental Psychology	3
MVSC	212	Medical Terminology	3
NURS	210	Clinical Reasoning or	2
PHIL	101	Critical Thinking	3
NURS	204	Pathophysiology in Nursing	3
NURS	207	Pharmacology in Nursing	3

**General Education Breadth courses:**

Breadth Area	Any approved course or list course/courses
Literature (three credits)	Any approved course
History (three credits)	Any approved course
Mathematics (three credits)	MTSC121 College Algebra, MTSC241 Statistics
Natural Science with Laboratory (three or four credits)	BIOL207 Anatomy & Physiology I, BIOL208 Anatomy & Physiology II, BIOL221 Fundamentals of Microbiology
Social Science (three credits)	PSYC201 Introduction to Psychology, SCCJ101 Introduction to Sociology GLOB395 Global Societies for non-majors
Arts/Humanities (two three-credit courses)	Any approved two courses

**Across-the-Curriculum (A-t-C)**

Program/Major	Nursing	
Concentration (if applicable)	None Required	
Effective Date	Fall 2017	
A-t-C Outcome	Course(s)	Course Name(s)
Reading	ENGL xxx	Literature
Writing Intensive or Writing in Major (outside capstone)	NURS310 NURS405	Nursing Research Nursing Leadership
Speaking – Oral Communication – Presentation	NURS408	Maternal Newborn Nursing
Speaking – Oral Communication – Discussion	NURS309 NURS405	Mental Health Nursing Nursing Leadership
Listening	NURS308	Health Assessment
Computer Competency	all NURS courses	
Information Literacy	NURS307	Introduction to Nursing Practice

Critical Thinking/Problem Solving	NURS210 or PHIL101 NURS417	Clinical Reasoning or Critical Thinking Contemporary Issues in Nursing
Quantitative Reasoning	MTSC225	Statistics
Multicultural 6 credits (choose two)	SCCJ101  any second approved course	Introduction to Sociology
African-American Experience	any approved course	
Self-Evaluation	PSYC201	Introduction to Psychology
Wellness	NURS311 NURS409	Child and Family Nursing Community Health Nursing
Global Issues	GLOB395 UNIV402	Global Societies for non-majors Learning without Borders

## **NURSING (NURS)**

### **NURS-191. UNIVERSITY SEMINAR I – NURSING/PRE-NURSING.**

**1:2:1**

University Seminar is a two semester, general education comprehensive core course requirement that focuses on assisting first year students in a seamless transition from high school to college, and in becoming familiar with Delaware State University. University Seminar is specifically designed to develop academic skills including critical reading, thinking, listening, writing and speaking, as well as using the academic library and pertinent technology. As a result of this course, each student should come to realize that the university is a unique culture grounded in tradition and history and guided by shared assumptions and expectations of students, professors, and administrators. The strands and goals of the General Education Program are embedded in the class activities, providing each student the opportunity to cultivate the critical thinking skills and knowledge necessary to become globally competitive. Credit, one hour.

### **NURS-192. UNIVERSITY SEMINAR II – NURSING/PRE-NURSING.**

**1:1:1**

University Seminar is a two-semester, General Education comprehensive core course requirement that focuses on assisting first year students in a seamless transition from high school to college, and in becoming familiar with Delaware State University. University Seminar is specifically designed to develop academic skills including critical reading, thinking, listening, writing and speaking, as well as using the academic library and pertinent technology. As a result of this course, each student should come to realize that the university is a unique culture grounded in tradition and guided by shared assumptions and expectations of students, professors and administrators. The strands and goals of the General Education Program are embedded in the class activities, providing each student the opportunity to cultivate the critical thinking skills and knowledge necessary to become globally competitive. Credit, one hour.

### **NURS-204. PATHOPHYSIOLOGY IN NURSING.**

**3:3:0**

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 mal-adaptations 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 and BIOL 221

Credit, three hours.

### **NURS 207. PHARMACOLOGY IN NURSING.**

**3:3:0**

This course gives an overview of drug classifications, uses of drugs by systems, and disease. It incorporates core drug knowledge related to therapeutic uses, pharmacokinetics, pharmacodynamics, contraindications and precautions, adverse effects, and drug interactions. Each unit will relate drug use with other drugs, food, and varied use across the lifespan. Dosage calculations, conversions and certain chemical formulations will be included.

Emphasis is given to the importance of patient safety, culture, and the nursing process.

Prerequisites: BIOL 207, BIOL 208

Credit, three hours.

### **NURS 210. CLINICAL REASONING.**

**2:2:0**

The purpose of this course is to assist the nursing students to develop comprehensive and focused nursing assessment skills and clinical reasoning and judgment in clinical nursing practice. This course examines the collaborative role of the nurse and the use of critical thinking to assess, analyze, and recognize clients at risk for adverse health outcomes. This course uses the nursing process as a framework to guide assessments, analysis, evidence-based interventions, and to maximize safe outcomes for clients. The implementations of evidence-based strategies to promote safety and prevent critical incidents are discussed. The legal and ethical implications of nurses' failure to intervene early with at-risk patients are examined.

Prerequisites: BIOL 207, BIOL 208, BIOL 221

Credit, two hours.

**NURS-300. GROWTH AND DEVELOPMENT ACROSS LIFE SPAN.****3:3:0**

This 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, three 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: Formal admission to the Nursing major.

Co-requisites: NURS 308, NURS 309

Credit, five hours.

**NURS-308. HEALTH ASSESSMENT.****3:2:3**

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 use a systems approach as assessment devices and procedures are introduced in the application of data collection related to human body structure and functioning. Physical examination techniques are evaluated using simulation scenarios.

Prerequisites: Formal admission to the Nursing major.

Co-requisites: NURS 307, NURS 309

Credit, three hours.

**NURS-309. MENTAL HEALTH NURSING.****5:3:6**

This course provides students with didactic and clinical learning experiences which incorporates basic psychopathology, theories, principles, and contemporary issues related to mental health illness. The nursing process is also used as a means of providing health care to individuals, families, and groups experiencing alterations in mental health. Student development in the roles of caregiver, communicator, and advocate for client rights are emphasized. This course also prepares students to incorporate therapeutic communication skills within all aspects of the health care environment and exposes students to maladaptive behaviors as they relate to safety and culturally competent nursing care.

Prerequisites: Formal admission to the Nursing major.

Co-requisites: NURS 307, NURS 308

Credit, five hours.

**NURS-310. 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 related to the evidence-based nursing practice (EBP).

Prerequisites: NURS 307, NURS 308, NURS 309

Co-requisites: NURS 311, NURS 316

Credit, three hours.

**NURS-311. CHILD AND FAMILY NURSING.****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: NURS 307, NURS 308, NURS 309

Co-requisites: NURS 310, NURS 316

Credit, five hours.

**NURS-314. ELECTIVE NURSING INFORMATICS AND TECHNOLOGY.**

**3:3:0**

This course will explore the impact of technology on health care, medical record keeping, the influence of the Health Insurance Portability and Accountability Act (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.

Pre-requisites: NURS 307, NURS 308, NURS 309

Co-requisites: NURS 310, NURS 311, NURS316

Credit, three hours.

**NURS-316. ADULT HEALTH NURSING I.**

**5:3:6**

This course provides students with both didactic and clinical learning experiences designed to provide nursing care to adult clients who are experiencing selected communicable, acute, and chronic health problems in medical-surgical and simulated clinical settings. Students utilize the nursing process to provide evidence-based health care to individuals. The course also focuses on individual and family responses to illness experiences. Emphasis is placed on multiple roles of nurses: care giver, critical thinker, and health care team member.

Pre-requisites: NURS 307, NURS 308, NURS 309

Co-requisites: NURS 310, NURS 311

Credit, five hours.

**NURS-400. ADULT HEALTH NURSING II.**

**5:3:6**

This course provides students with both didactic and clinical learning experiences designed to provide nursing care to adult clients who are experiencing acute and complex medical-surgical health problems in acute care clinical settings. This course focuses on utilization of the nursing process as a means of providing evidence based health care to the study of individuals with complex health problems. The cultural, ethical, psychosocial, and legal aspects of these complex health problems as they affect individuals, families, and the health care team are emphasized. Clinical simulation activities, observation, and acute care learning experiences with the client are provided.

Pre-requisites: All junior level courses

Co-requisites: NURS 405, NURS 408

Credit, five hours.

**NURS-405. NURSING LEADERSHIP.**

**3:3:0**

This course explores concepts of leadership and management. Emphasis is on the application of communication, delegation, and culture with a focus on legal and ethical aspects of decision making. The course will emphasize the use of critical thinking in the leadership and management roles in the delivery of health care in diverse multicultural settings. The role of the professional nurse is discussed in a variety of contexts.

Pre-requisites: All junior level courses

Co-requisites: NURS 400, NURS 408

Credit, three 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 and disease prevention to fulfill client needs in childbearing and childrearing families is

emphasized. The integration of basic genetic concepts and principles develops an understanding of the importance of genetics in nursing theory and clinical practice.

Prerequisites: Successful completion of all junior level nursing courses.

Co-requisites: NURS 407 and NURS 411

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: NURS 400, NURS 405, NURS 408

Co-requisites: NURS 417, NURS 419

Credit, five hours.

**NURS-417. CONTEMPORARY ISSUES IN NURSING.**

**3:3:0**

This course uses a conceptual approach to explore dimensions of practice and client care issues that are directly related to the professional practice of nursing. Students are assisted in analyzing major issues and trends influencing professional nursing practice and current health care trends used to influence decisions. Policies related to social, ethical, legal, and economic environments are examined.

Prerequisites: NURS 400, NURS 405, NURS 408

Co-requisites: NURS 409, NURS 419

Credit, three hours.

**NURS-419. TRANSITION TO PROFESSIONAL NURSING.**

**5:2:9**

This course provides an opportunity to synthesize and integrate all nursing courses into professional practice. This course will provide an integrative experience applying dimensions of professional nursing in the care of diverse client populations across a variety of healthcare settings. All major concepts of the nursing program are addressed including the role of the professional nurse as a member of the multidisciplinary team, provider of patient-centered care, patient advocate, and professional practice within the legal and ethical framework. Leadership and prioritization will be addressed with the management of multiple clients in a variety of settings. Application of knowledge and skills occurs in the clinical setting to facilitate an effective transition from student to registered professional nurse.

Prerequisites: NURS 400, NURS 405, NURS 408, NURS Elective

Co-requisites: NURS 409, NURS 417

Credits, five hours.

**NURS- 420. ELECTIVE SOCIAL POLITICAL ISSUES TRENDS IN NURSING.**

**2:2:0**

This course introduces the social, political issues and trends that influence contemporary nursing practice and health care system changes that affect the role of the professional nurse. The student will conduct an in-depth study of a select social, political issue or trend of interest.

Pre-requisites: NURS 307, NURS 308, NURS 309

Co-requisites: NURS 411, NURS 408, NURS 412

Credit, two hours.

## DEPARTMENT OF SOCIAL WORK

**Chair:** Dr. Eleanor Kiesel

**Professor** Dr. John Austin

**Associate Professors:** Dr. Ezekiel Ette, Dr. Anthony Hill, Dr. Sheridan Quarless Kingsberry, and Dr. Dolores Finger Wright

**Assistant Professors:** Dr. Fran Franklin (BSW Program Director) and Dr. Eleanor Kiesel

**Staff:** Dr. Chavon Dottin (Field Director)

The primary objective of the Baccalaureate Social Work Program is to prepare students for generalist social work practice with individuals, families, groups, organizations and communities in diverse settings. Students are introduced to generalist social work practice while using the strengths perspective, the rural perspective, the global perspective, empowerment, and a Black perspective for social work practice as core concepts for providing services to clients. The curriculum follows a competency model based on the Educational and Policy Standards issued by the Council on Social Work Education. The social work courses are designed to instill professionalism, critical thinking, an understanding and respect of and for diversity, multiple ways of comprehending people and the world in which they live, a commitment to ethical standards and the integration of art and science in practice on behalf of clients.

All students complete a year-long, 400 hour field practicum assignment in an agency-based setting providing services to individuals, families, communities, groups and organizations.

In addition to completing social work courses, the Field Practicum placement enables students to demonstrate 9 core competencies that comprise the knowledge, values and skills that undergird social work practice. Course work includes general education courses that provide a well-integrated program that includes arts, socio-behavioral sciences and scientific-analytical study.

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. Admissions criteria for the Baccalaureate Social Work Program includes: successful completion of two (2) years of undergraduate study with a GPA of 2.50 or higher on a 4.00 scale; and completion of the application package at the end of the sophomore year or the beginning of the junior year.

The Baccalaureate Social Work Program was granted full accreditation status by the national professional accrediting agency for social work education, the Council on Social Work Education (CSWE), in 1982 with Reaffirmation of Accredited Status in 1990, 1998, 2004 and 2013.

### **Mission of the Social Work Department**

The Department of Social Work has two major programs—the BSW Program and the MSW Program. As such, 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. This mission is inclusive across both the BSW and the MSW Programs. As a consequence of this dynamic, department goals (discussed below) encompass both programs.

**The Goals of the Department of Social Work are to:**

- To prepare students for generalist social work practice in order to assist individuals, families, groups, organizations, and communities with problems that impact their well-being and/ or functioning.
- To graduate students who employ empowerment oriented and strengths based frameworks for social work practice within the context of a Black perspective for social work practice.
- To provide the profession with social workers who employ evidence-based practices and engage in research to generate data that are useful in measuring the effectiveness of interventions with clients.
- To prepare students who understand the unique needs of Delaware's rural populations and who possess the level of awareness and sensitivity that will enable them to practice with culturally diverse populations.
- To graduate students with a commitment to social justice and who engage in activities that ensure that the basic needs of all people are met, nationally and globally.
- To graduate students who demonstrate the ability to employ empowerment oriented approaches to practice; that is, engagement, assessment, and implementation of evidence-based interventions that are identified to help clients achieve service goals.
- 

These goals are operationalized through nine (9) core competencies:

- Demonstrate Ethical and Professional Behavior
- Engage Diversity and Difference in Practice
- Advance Human Rights and Social, Economic, and Environmental Justice
- Engage in Practice-informed Research and Research-informed Practice
- Engage in Policy Practice
- Engage with Individuals, Families, Groups, Organizations, and Communities
- Assess Individuals, Families, Groups, Organizations, and Communities
- Intervene with Individuals, Families, Groups, Organizations, and Communities
- Evaluate Practice with Individuals, Families, Groups, Organizations, and Communities

Students are provided individual advisement by the Student Services Center during their freshman and sophomore years and with individual program specific advisement from the social work faculty during their junior and senior years. All care is taken to ensure that student's career goals and objectives are in congruence with the competencies of the social work program and the profession. **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.**

**COLLEGE OF EDUCATION, HEALTH, AND PUBLIC POLICY  
DEPARTMENT OF SOCIAL WORK  
BACCALAUREATE PROGRAM**

Student Name:					Student ID:				
<b>Freshman Fall Semester</b>					<b>Freshman Spring Semester</b>				
Course	Course Name	Cr	Sem	Gr	Course	Course Name	Cr	Sem	Gr
ENGL 101	English Comp I	03			ENGL 102	English Composition II	03		
SCWK-191	University Seminar I	01			SCWK 192	University Seminar II	01		
MTSC 101	Survey of Math I	03				Arts/Humanities	03		
BIOL-100	Intro to Biology	03/04				Natural Science	03		
<b>SCCJ-201</b>	<b>*Intro to Sociology</b>	03			HIST		03		
SCWK-101	Intro to Social Work	03			SCWK 201	Econ Politics & Social Welfare	03		
	<b>Total Credits</b>	<b>16</b>				<b>Total Credits</b>	<b>16</b>		
<b>Sophomore Fall Semester</b>					<b>Sophomore Spring Semester</b>				
Course	Course Name	Cr			Course	Course Name	Cr		
	Literature I	03			ENGL	Literature II	03		
	Foreign Language	03				Foreign Language	03		
SCWK 315	Social Welfare P&P I	03			SCWK 316	Social Welfare P&P II	03		
<b>PSYC 201</b>	<b>*Intro to Gen Psychology</b>	03			<b>MIS 105</b>	<b>*Microcomputer Application</b>	03		
ENGL 200	Speech	03			SCWK 341	Seminar in Helping	03		
	<b>Total Credits</b>	<b>15</b>				<b>Total Credits</b>	<b>15</b>		
<b>Junior Fall Semester</b>					<b>Junior Spring Semester</b>				
Course	Course Name	Cr			Course	Course Name	Cr		
SCWK 342	Social Work Practice I	03			SCWK 441	Social Work Practice II	03		
SCWK 302	HBSE I	03			SCWK 303	HBSE II	03		
<b>MVSC 101</b>	<b>Fitness &amp; Wellness</b>	02			<b>GLOB 395</b>	<b>Global Societies</b>	03		
SCWK 310	Elementary Statistics	03			SCWK	Social Work Elective	03		
SCWK 413	Methods Research I	03			SCWK 414	Methods Research II	03		
	<b>Total Credits</b>	<b>14</b>				<b>Total Credits</b>	<b>15</b>		
<b>Senior Fall Semester</b>					<b>Senior Spring Semester</b>				
Course	Course Name	Cr			Course	Course Name	Cr		
SCWK 421	Issues in Soc Srv Delivery	03			SCWK 460	<b>**Senior Seminar</b>	03		
SCWK 450	Field Instruction I	06			SCWK 451	Field Instruction II	06		
SCWK	Social Work Elective	03			SCWK	Social Work Elective	03		
	General Elective	03				General Elective	03		
	<b>Total Credits</b>	<b>15</b>				<b>Total Credits</b>	<b>15</b>		

Corrected number of credits to reflect Natural Science and Lab to four credits – June, 2012

**Total Credits: 122**

Students must earn a "C" or above in all social work courses, **and** those which are bolded.

(\*) - Co-requisites –they are required in addition to major courses; students must earn a "C" or above.

\*\* Capstone Course

The course, "Cultural Anthropology," is recommended for one of the general electives.

Social Work electives may also act as general electives.

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

**A concentration is or is not required for this major.**

None

**Non-courses requirements for the major:**

**Major courses**

Subject Code	Course Number	Course Name	Number of Credits
SCWK	101	Introduction to Social Work	3
SCWK	201	Econ Politics & Social Welfare	3
SCWK	302	HBSE I	3
SCWK	303	HBSE II	3
SCWK	310	Elementary Statistics	3
SCWK	315	Social Work Program and Policies I	3
SCWK	316	Social Work Program and Policies II	3
SCWK	341	Seminar In Helping	3
SCWK	342	Social Work Practice I	3
SCWK	413	Methods and Research I	3
SCWK	414	Methods and Research II	3
SCWK	441	Social Work Practice II	3
SCWK	421	Issues In Social Service Delivery Systems	3
SCWK	450	Field Instruction I	6
SCWK	451	Field Instruction II	6
SCWK	460	Senior Seminar	3

**Major Electives:**

SCWK 409 Introduction to Trauma and Social Work Practice

SCWK 311 Introduction to Group Dynamics

SCWK 440 Child Welfare 3 credits

SCWK 460 Ethics 3 credits

SCWK 423 Alcoholism and Other Addictions 3 Credits

**Other required courses for the major:**

Subject Code	Course Number	Course Name	Number of Credits
SCWK	191	University Seminar I	3
SCWK	192	University Seminar II	3
ENGL	101	English Composition I	3
ENGL	102	English Composition II	3
MTSC	Varies	Mathematics I	3
ART	Varies	Varies (Art, Music, Drawing, Theatre)	3
BIO	Varies	Biology	3
BIO	Varies	Natural Science (Heredity, Disease, Ecology)	3
SCCJ	201	Introduction to Sociology	3
HIST	Varies	Varies (American, African, Civil)	3
ENGL	Varies	Varies (World Literature I or African Am I)	3
ENGL	Varies	Varies (World Literature I or African Am II)	3
FOR LANG	Varies	Varies (Spanish, French)	3
PSYC	201	Introduction to General Psychology	3

MIS	105	Microcomputer Application	3
ENGL	200	Speech	3
MVSC	101	Fitness & Wellness	3
GLOB	395	Global Societies	3
GEN ELEC	Varies	General Elective	3
GEN ELEC	Varies	General Elective	3

**Concentration Name:** None

Subject Code	Course Number	Course Name	Number of Credits
n/a	n/a	n/a	n/a

**General Education Breadth courses:**

Breadth Area	Any Approved Course or list course/courses
Literature (three credits)	World Literature or African American Literature
History (three credits)	Civil, American, African
Mathematics (three or four credits)	Survey, General, College Algebra
Natural Science with Laboratory (three or four credits)	General Biology, Human Biology, Basic Ecology, Human Heredity, Human Disease
Social Science (three credits)	
Arts/Humanities (two three-credit courses)	Art, Music, Drawing, Painting,

**Across-the-Curriculum (A-t-C)**

<b>Program/Major</b>		SOCIAL WORK
<b>Concentration (if applicable)</b>		NONE
<b>Effective Date</b>		Fall 2016
<b>A-t-C Outcome</b>	<b>Course(s)</b>	<b>Course Name(s)</b>
<b>Reading</b>	SCWK 302 SCWK 303 SCWK 101	Human Behavior & SE I Human Behavior & SE II Introduction to Social Work
<b>Writing Intensive or Writing in Major (outside capstone)</b>	SCWK 413 SCWK 414 SCWK 315	Methods and Research I Methods and Research II Social Welfare P & P I
<b>Speaking – Oral Communication – Presentation</b>	SCWK 101 SCWK 413	Introduction to Social Work Methods and Research I
<b>Speaking – Oral Communication – Discussion</b>	SCWK 201 SCWK 341	Econ Politics & Social Welfare Seminar In Helping
<b>Listening</b>	SCWK 341 SCWK 342	Seminar In Helping Social Work Practice I
<b>Computer Competency</b>	MIS 105	Microcomputer Applications
<b>Information Literacy</b>	SCWK 413 SCWK 460	Methods & Research I Senior Seminar
<b>Critical Thinking/Problem Solving</b>	SCWK 421 SCWK 342 SCWK 441	Issues in Social Service Delivery Social Work Practice I Social Work Practice II
<b>Quantitative Reasoning</b>	SCWK 413	Methods and Research I

	SCWK 414 SCWK 310	Methods and Research II Elementary Statistics
<b>Multicultural</b> 6 credits (choose two)	SCCJ 101 ENGL 201 ENGL 202	Introduction to Sociology World Literature I World Literature II
<b>African-American Experience</b>	ENG 205 ART 316 MUSC 100 HIST 203	African American Literature I African American Art History African American Music African American History
<b>Self-Evaluation</b>	SCWK 460 SCWK 450 SCWK 451	Senior Seminar Field Instruction I Field Instruction II
<b>Wellness</b>	MVSC 101 PSYC 201	Fitness & Wellness Introduction to General Psychology
<b>Global Issues</b>	GLOB 395	Global Societies

## **SOCIAL WORK (SCWK) (39)**

### **SCWK-101. INTRODUCTION TO SOCIAL WORK**

**3:3:0**

The course is an introduction to the field of social work 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, the rural perspective and a Black perspective for social work practice, 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**

**1:2:0**

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 pressure, 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 interrelationship 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?

Social Work Prerequisites: SCWK-101, SCWK-191 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.

Social Work Prerequisites: Junior status, fully admitted to the BSW Program; SCWK 101, SCWK 191 & 192, SCWK 315, SCWK 316, SCWK 341 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.

Social Work Prerequisites: Fully admitted to the BSW Program; SCWK-101, SCWK 191, SCWK 192, SCWK 201, SCWK 302, SCWK 310, SCWK 315, SCWK 316, SCWK 341 or consent of the instructor.

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.

Social Work Prerequisites: For non-majors, completion of Math General Education Requirements; for social work majors, completion of General Education Social Work Requirements; fully admitted to the BSW Program; SCWK 101, SCWK 191, SCWK 201, SCWK 192, SCWK 302, SCWK 310, SCWK 315, SCWK 316, SCWK 341 or consent of the instructor.

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.

Social Work Prerequisites: All freshman and sophomore General Education Requirements. Junior status. Fully admitted to the BSW Program; SCWK 101, SCWK 191, SCWK 192, SCWK 201, SCWK 302, SCWK 303, SCWK 310, SCWK 315, SCWK 316, SCWK 413 or permission of instructor.

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.

Social Work Prerequisites: Junior status, SCWK 101, SCWK 191, SCWK 192, 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.

Social Work Pre-requisites: Sophomore status. SCWK 101, SCWK 191, SCWK 192, 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.

Social Work Pre-requisites: Second semester sophomore status.

Pre-requisites: SCWK 191, SCWK 192, SCWK 315.

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.

Social Work Pre-requisites: Junior status with a declared Social Work major, SCWK 101, SCWK 191, SCWK 192, SCWK 201, SCWK 191, SCWK 192, SCWK 315, SCWK 316.

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.

Social Work Pre-requisites: Junior status, SCWK 191, SCWK 192, SCWK 310, SCWK 315, SCWK 316, SCWK 321, SCWK 342 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.

Social Work Prerequisites: Fully admitted to the BSW Program. Junior or senior status. SCWK-101, SCWK 191, SCWK 192, SCWK 302, SCWK 310, SCWK 315, SCWK 316, SCWK 413, SCWK 341, SCWK 342, PSYC-201, 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.

Social Work Prerequisites: Junior or senior status. Fully admitted to the BSW Program. SCWK 101, SCWK 191, SCWK 192, SCWK 201, SCWK 315, SCWK 316, SCWK 302, SCWK 341, SCWK 413, SCWK 342 or consent of the Instructor.

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.

Social Work 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.

Social Work Prerequisites: Fully admitted to the BSW Program Must have taken SCWK 310 or concurrently enrolled with SCWK 413; SCWK 101, SCWK 191, SCWK 192, SCWK 201, SCWK 315, SCWK 316, SCWK 341.

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.

Social Work 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.

Social Work 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.

Social Work 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.

Social Work 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.

Social Work 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.

Social Work Prerequisites: Senior status, all prior required Liberal Arts; co-requisites, 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.

Social Work Prerequisites: SCWK-450, senior status, all prior required General Education; co-requisites, 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.  
Social Work 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.

Social Work 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.

Social Work 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.

Social Work Prerequisites: Senior status, written consent of the instructor.

Credit, one to three hours.

**DEPARTMENT OF PUBLIC AND ALLIED HEALTH SCIENCES  
KINESIOLOGY MAJOR  
PUBLIC HEALTH MAJOR**

**Chair and Associate Professor:** Dr. Erica Taylor

**Associate Professor:** Dr. Sangeeta Gupta  
Dr. Adam Kuperavage

**Assistant Professors:** Dr. R. Chris Mason  
Dr. Cara Gomez  
Dr. Megan Rothermel

**Instructors:** Ms. Julia Olsen  
Ms. Amy Gootee-Ash

**Visiting Faculty:** Dr. Knolan Rawlins

**Professional Staff:** Ms. Angela Shorter

**Secretary:** Ms. Priscilla Caldwell

**ABOUT THE DEPARTMENT**

The Department of Public and Allied Health Sciences is an interdisciplinary department that prepares students for a wide variety of careers options and graduate education. The Department is composed of two unique, yet related majors: Kinesiology and Public Health. The Public Health major has the options of a traditional classroom instruction or a fully online instruction format through offered through DSU Online. Regardless of the major, students must complete the General Education Program as required of all University students (See General Education Requirements).

**KINESIOLOGY MAJOR**

The Kinesiology 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. It provides students with the undergraduate degree and courses required for admission to graduate health professional education programs including, but not limited to: physical therapy, occupational therapy, chiropractic medicine, biomechanics, exercise physiology, exercise science, strength & conditioning, kinesiology, motor behavior, human performance, and athletic training. 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" for evidence-based practice.

The Kinesiology major consists of a combination of classroom lectures, laboratory work, co-curricular activities, service-learning, and community outreach experiences. Students learn the most current technologies and techniques used in the profession and engage in 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 various ages and cultures, skill levels, fitness status, and physical capabilities. Elective coursework

provides the opportunity for students to prepare for certification exams of the American College of Sports Medicine and the National Strength and Conditioning Association (NSCA). The department collaborates with the Wellness Center to offer American Council on Exercise (ACE) personal training certification and students can work as laboratory assistants in the Exercise Physiology Lab to gain practical experience. Kinesiology students are also encouraged to participate in research through course work and assisting faculty. While on campus, students have access to the Exercise Physiology and Movement Analysis Research Laboratories, and the Recreation and Wellness Center.

### **PUBLIC HEALTH MAJOR**

The Public Health 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 Public Health 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. Public Health 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, Occupational Health, and Chronic Disease Prevention. The Bachelor of Science in Public Health provides a solid background in health science, including public health education and policy, public health informatics, community health promotion in the workplace, 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, as well as program assessment, advocacy, health education and health promotion service coordination, resource management policy, and research.

### **SENIOR CAPSTONE PROJECT**

Kinesiology and Public Health majors are required to complete a senior capstone project. The Kinesiology capstone project permits students to select a research project or internship enabling them to apply their knowledge in a practical real-world setting. The Kinesiology senior capstone is completed over two semesters. The Public Health 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. 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 is to provide all students, faculty, staff, and administrators with access to baseline health risk appraisals. All students are required to earn a grade of C or better.

## **LABORATORIES**

The Exercise Physiology and Movement Science Laboratories provide students with opportunities to enhance learning relative to applied aspects of exercise science. Each laboratory is equipped with industry standard testing and training instrumentation used in clinical fitness and wellness settings.

## **RESEARCH**

The faculty are engaged in a variety of research activities including: neuromechanical aspects of normal movement, injury prevention and rehabilitation, chronic disease prevention, physical activity intervention, 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, strength and conditioning workshops, aquatics programs, and in-depth health and fitness assessments. Community outreach and service learning activities 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 to become scholars, professionals, practitioners, researchers, and leaders who pursue excellence as Health and Fitness Professionals regionally, nationally, and globally. Our programs prepare students for careers and graduate education in 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 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 science, kinesiology, 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.

## **EXPECTED LEARNING OUTCOMES**

The faculty believes that every student in a major within the Department of Public and Allied Health Sciences should have access to a high quality program that prepares students for careers in the fitness and wellness industry and post graduate education in 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 major content area.
- 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 utilize “Best Practices” in its delivery of instruction and learning experiences to actively engage students in lecture, laboratory experiences, campus and community service activities, and faculty-directed student research, all of which embrace the concerns of a diverse, changing global society. Public Health classes actively engage students through program planning, implementation, 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. The Kinesiology major provides multiple courses with laboratory experience and experiential learning opportunities.

### **ACADEMIC MAJORS AND CONCENTRATIONS**

#### **Kinesiology**

The Kinesiology major prepares students for the job market and for a range of graduate and professional programs. Students are expected to work closely with their academic advisor to determine the best options for elective course work, research, internship and volunteer opportunities to prepare for specific individual post- graduation plans. The major provides students with an educational and experiential foundation that incorporates lecture, laboratory, practice, and service learning experiences to prepare them for certification exams administered by the American College of Sports Medicine and National Strength and Conditioning Association, and for a range of graduate and professional school options

Kinesiology major is designed to prepare graduates to meet requirements for admission to Allied Health Professional graduate programs\*, including, but not limited to:

- Physical Therapy
- Occupational Therapy
- Doctor of Osteopathy
- Doctor of Chiropractic Medicine and a variety of other allied health and exercise professions
- Exercise Physiology
- Biomechanics
- Kinesiology
- Exercise Science
- Health and Human Performance
- Exercise Psychology
- Therapeutic Recreation and a variety of other allied health and exercise professions

Graduates will also have the knowledge, skills, and abilities required for employment in fitness and wellness environments, strength and conditioning centers, and related career environments upon graduation. With this degree, graduates have the skills 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:

- Health & Fitness Specialist
- Inclusive Fitness Trainer
- Physical Activity in Public Health Specialist
- Exercise Test Technologist
- Strength and Conditioning Specialist/Coach
- Health and Fitness Director
- Laboratory Technician
- Research Assistant
- Movement Analyst

\* Kinesiology graduates who are interested in careers in Athletic Training, Occupational Therapy, Physical Therapy, Chiropractic 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. Applications for admission to physical therapy programs must be submitted using the Physical Therapy Centralized Applications Service. ([www.ptcas.org](http://www.ptcas.org)).

### **Public Health**

The Public Health graduate possesses a unique 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 Public Health have a variety of diverse employment opportunities. A few examples are:

- State Immunization Program Coordinator
- Community Outreach and Case Manager, Family Planning Agency
- 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
- Epidemiology

**DEPARTMENT OF PUBLIC AND ALLIED HEALTH SCIENCES**  
**MAJOR: KINESIOLOGY**  
 Fall 2017

S/Y	GR	COURSE NUMBER AND TITLE	CR	PREREQUISITES
<b>Freshman (Fall) Total</b>				
		KINE 191 University Seminar I	1	NONE
		KINE 101 Lifetime Fitness and Wellness	2	NONE
		MTSC 121 College Algebra or Equivalent	3	Placement Test scores OR MTSC 075
		ENGL 101 English Composition I	3	Placement test OR ENGL 097
		BIOL 101 Biology I	4	NONE
		___-___ Arts and Humanities Elective	3	NONE
			16	
<b>Freshman (Spring) Total</b>				
		KINE 192 University Seminar II	1	NONE
		PSYC 201 Intro to General Psychology (Social Science )	3	NONE
		KINE 110 Introduction to Kinesiology	3	
		ENGL 102 English Comp II	3	ENGL 101
		BIOL 102 Biology II	4	BIOL 101
		___-___ Arts and Humanities Elective	3	
			17	
<b>SOPHMORE (Fall) Total</b>				
		KINE 212 Medical Terminology	3	
		KINE 210 Psychology of Physical Activity	3	PSYC-201
		___-___ Statistics- <b>Choose one: MTSC 241, PSYC 322, OR SCWK 310</b>	3	MTSC 121
		ENGL 200 Speech	3	ENGL 101, 102
		BIOL 207 Human Anatomy & Physiology I	4	NONE
			16	
<b>SOPHMORE(Spring) Total</b>				
		KINE 255 Introduction to Motor Learning & Control with LAB	4	BIOL 207 BIOL 208 (co-requisite)
		*KINE-265 Research Design <sup>w</sup>	3	MTSC 241, PSYC 322, OR SCWK 310 & ENGL 101 & 102
		ENGL- ___ Literature (Choose One) <b>ENGL 201, 202, 205 <sup>A</sup> or 206<sup>A</sup></b>	3	NONE
		HIST-___ History (Choose One ) <b>HIST 101, 102, 201, 202, 203<sup>A</sup>, 204<sup>A</sup>, 205</b>	3	NONE
		BIOL 208 Human Anatomy & Physiology II	4	BIOL 207
			17	
<b>JUNIOR (Fall) Total</b>				
		KINE 300 Exercise Physiology with Lab	4	BIOL 207, BIOL 208
		CHEM 101 General and Analytic Chemistry I with Lab	4	
		GLOB 395 Global Societies	3	JUNIOR (60 CREDITS)
		KINE 302 Fundamentals of Kinesiology	3	BIOL 207, BIOL 208
		MTSC 122 Trigonometry	3	MTSC 111 or MTSC 121
			17	

		<b>JUNIOR (Spring) Total</b>		
		*KINE 319 Biomechanics with Lab <sup>W</sup>	4	KINE 300 Exercise Physiology with Lab KINE 302 Fundamentals of Kinesiology KINE 265 Research Design
		CHEM 102 General & Analytic Chemistry II with Lab	4	CHEM 101
		KINE 364 Exercise Testing and Prescription with Lab	4	KINE 300 Exercise Physiology KINE 302 Fundamentals of Kinesiology KINE 255 Motor Learning and Control
		KINE-369 Kinesiology Observation  Or  KINE-370 Research Experience in Kinesiology (Approval Only Course)	3  OR  3	KINE 110 Introduction to Kinesiology KINE 302 Fundamentals of Kinesiology KINE- 265 Research Design  KINE 110 Introduction to Kinesiology KINE 302 Fundamentals of Kinesiology KINE 265 Research Design
			15	
		<b>SENIOR (Fall) Total</b>		
		KINE 483 Kinesiology Senior Seminar Capstone Writing <sup>5</sup>  or  KINE 481 Senior Seminar Research Option I <sup>5</sup> (Approval Only Course)	3  OR  3	KINE 369 Kinesiology Observation Course or  KINE 370 Research Experience (KINE-370- Approval Only Course)
		PHYS 111 Introduction to Physics with Lab	4	MTSC 122
		KINE 470 Motor Development	3	KINE 255 Introduction to Motor Learning and Control with Lab
		KINE 465 Adapted Physical Activity	3	KINE 265 Research Design KINE 364 Exercise Testing and Prescription with Lab
			13	
		<b>SENIOR (Spring) Total</b>		
		KINE 484 Kinesiology Senior Seminar Capstone Internships (Sequel to KINE 483 Senior Seminar Capstone Writing)  Or  KINE 482 Senior Seminar Research Writing Option II <sup>5</sup> (Sequel to Senior Seminar Research Option I- Approval Only Course)	3  OR  3	KINE 483 Kinesiology Senior Seminar Capstone Writing  Or  KINE 481 Senior Seminar Research Option I
		___ - ___ KINE Elective	3	
		___ - ___ Upper Level Elective	3	
		___ - ___ Upper Level Elective	3	
			12	
<b>TOTAL Hours:</b>			<b>123</b>	

A= African American (AA) Experience: Students should enroll in one of the following courses to satisfy the DSU AA Experience requirement: HIST-203, HIST-204, ART-316, MUSC-100, ENGL-205, or ENGL-206

\*One course must be AA experience and 2 courses must be multicultural

P= Pre-Requisite Course(s)

S=Senior Capstone: Student must be certified in CPR and First Aid and must complete all pre-requisite course work prior to taking KINE 481, KINE 482, KINE 483, KINE 484

W-Writing Intensive

**Student Name:** \_\_\_\_\_

D# \_\_\_\_\_

Advisor: \_\_\_\_\_

Total Hours: 123 Credits

Note: Students must complete all curriculum requirements listed on this sheet with a grade of "C" or higher.

**Effective Date: Fall 2017**

## **Major Name: KINESIOLOGY**

### **Student Learning Outcomes:**

**1. Goal #1:** Demonstrate the DSU Core values of scholarship and diversity by educating the student on the impact of physical activity on health, wellness, and quality of life.

A Kinesiology graduate will be able to ...

- Design and evaluate physical activity programs that promote health and improve quality of life across various populations in accordance with ACSM guidelines and recommendations.
- Critically analyze research related to physical activity and its impact on health and chronic disease across various populations.

**Goal #2:** Demonstrate the DSU Core value of scholarship by providing the student with scientific foundations of physical activity.

A Kinesiology graduate will be able to ...

- Describe the physiological and psychological responses to acute and long-term physical activity.
- Apply physiological and kinematic concepts related to skillful movement patterns, motor development and biomechanics.

**Goal # 3:** Demonstrate the DSU Core values of integrity and diversity by teaching the cultural, historical and philosophical dimensions of physical activity.

A Kinesiology graduate will be able to ...

- Critically analyze scholarly work related to cultural, historical and philosophical dimensions of physical activity and health.
- Demonstrate effective professional communication, promote cultural awareness and demonstrate the ability to network within and outside Delaware State University.

**Goal # 4:** Provide opportunities to conduct research and service learning projects that promote health and physical activity, which will exemplify the DSU Core Values of community and outreach.

A Kinesiology graduate will be able to ...

- Design therapeutically appropriate activities for individuals across various populations.
- Apply current research and kinesiology concepts to design community based programs that benefit Delaware State Students and the surrounding community.

### **Faculty who currently teach in this major:**

Dr. Erica Taylor  
Dr. Adam Kuperavage  
Dr. R. Chris Mason  
Dr. Cara Gomez  
Dr. Knolan Rawlins  
Dr. Megan Rothermel  
Ms. Angela Shorter  
Ms. Julia Olsen

**No concentration is required for Kinesiology.**

**Non-courses requirements for the major:** Students must earn a minimum of a C in all courses.

**Major courses:**

Subject Code	Course Number	Course Name	Number of Credits
KINE	110	Introduction to Kinesiology	3
KINE	212	Medical Terminology	3
KINE	255	Introduction to Motor Learning and Control with Lab	4
KINE	265	Research Design	3
KINE	300	Exercise Physiology with Lab	4
KINE	302	Fundamentals of Kinesiology	3
KINE	319	Biomechanics with Lab	4
KINE	364	Exercise Testing and Prescription with Lab	4
KINE	369 or 370	Kinesiology Observation, or Research Experience in Kinesiology	3 3
KINE	483 or 481	Kinesiology Senior Seminar Capstone Writing, or Senior Seminar Research Option I	3 3
KINE	470	Motor Development	3
KINE	465	Adapted Physical Activity	3
KINE	484 or 482	Kinesiology Senior Seminar Capstone Internship, or Senior Seminar Research Writing Option II	3 3

**Major Electives:**

3 hours of KINE elective course work and 6 hours of open elective course work

Subject Code	Course Number	Course Name	Number of Credits
BIOL	101	General Biology I	4
BIOL	102	General Biology II	4
MTSC	121	College Algebra	3
PSYC	201	Introduction to General Psychology	3
BIOL	207	Anatomy & Physiology I	4
BIOL	208	Anatomy & Physiology II	4
MTSC	122	Trigonometry	3
CHEM	101	General and Analytical Chemistry I	4
CHEM	102	General and Analytical Chemistry II	4
PHYS	111	Introduction to Physics with Lab	4

**General Education Breadth courses**

Breadth Area	Any Approved Course or list course/courses
Literature (three credits)	Any DSU approved course
History (three credits)	Any DSU approved course
Mathematics (three or four credits)	MTSC 121 College Algebra
Natural Science with Laboratory (three or four credits)	BIOL 101 General Biology I; CHEM 101 General and Analytical Chemistry
Social Science (three credits)	PSYC 201 Introduction to General Psychology
Arts/Humanities (two three-credit courses)	Any DSU approved course

**Across-the-Curriculum (A-t-C)**

Program/Major		Kinesiology
Concentration (if applicable)		N/A
Effective Date		Fall 2017
A-t-C Outcome	Course(s)	Course Name(s)
Reading	KINE 110	Introduction to Kinesiology
Writing Intensive or Writing in Major (outside capstone)	KINE 265 KINE 319	Research Design Biomechanics with Lab
Speaking – Oral Communication – Presentation	KINE 369 KINE 370	Kinesiology Observation Research Experience in Kinesiology
Speaking – Oral Communication – Discussion	KINE 210 KINE 203	Psychology of Physical Activity Organization and Administration in Allied Health
Listening	KINE 481 KINE 482 KINE 483 KINE 484	Senior Seminar Research Option I Senior Seminar Research Writing Option II Kinesiology Senior Seminar Capstone Writing Kinesiology Senior Seminar Capstone Internship
Computer Competency	KINE 467 KINE 370 KINE 203	Introduction to Gait Analysis with Lab Research Experience in Kinesiology Organization and Administration in Allied Health
Information Literacy	KINE 265 KINE 481 KINE 482 KINE 483 KINE 484	Research Design Senior Seminar Research Option I Senior Seminar Research Writing Option II Kinesiology Senior Seminar Capstone Writing Kinesiology Senior Seminar Capstone Internship
Critical Thinking/Problem Solving	KINE 364 KINE 461	Exercise Testing and Prescription with Lab Introduction to Musculoskeletal Injuries and Rehabilitation
Quantitative Reasoning	KINE 265 KINE 363	Research Design Physical Activity of Epidemiology
Multicultural 6 credits (choose two)		Any two DSU approved general education courses
African-American Experience		Any DSU approved general education course
Self-Evaluation	KINE 481 KINE 482 KINE 483 KINE 484	Senior Seminar Research Option I Senior Seminar Research Writing Option II Kinesiology Senior Seminar Capstone Writing Kinesiology Senior Seminar Capstone Internship
Wellness	KINE 210 KINE 465	Psychology of Physical Activity Adapted Physical Activity
Global Issues	KINE 110	Introduction to Kinesiology

## **MOVEMENT SCIENCE (MVSC)**

### **MVSC-101. LIFETIME FITNESS AND WELLNESS (KINE-101)**

**2:3:1**

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. Students 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.

### **KINE-110. INTRODUCTION TO KINESIOLOGY**

**3:3:0**

This course is designed for entry level Kinesiology majors and students considering transferring into Kinesiology. Students will be introduced to the discipline of Kinesiology and multiple health/fitness professions while exploring the area of kinesiology with research and applied contexts. Theories, principles, and history of kinesiology with an introduction to the study of human movement will be covered in this course.

Credit: three hours

### **MVSC-124. EXERCISE LEADERSHIP**

**3:3:0**

Health and fitness professionals utilize a variety of methods to implement health and fitness related goals. This course provides a basic overview of current fitness concepts, activities, and assessments, including an introduction to exercise technique and group exercise. Students will be prepared to teach and demonstrate physical activities to individuals or groups and present health information and assessment results to clients.

Credit: three hours.

### **MVSC-191. UNIVERSITY SEMINAR I – PAHS (KINE-191)**

**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 lifelong learner. A global, multicultural 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 (KINE-192)**

**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 lifelong learner. A global, multicultural 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-200.CPR AND FIRST AID (KINE-200) 1:1:0**

This course provides students with the skills to recognize and respond to emergency situations and enables students to earn the American Red Cross Adult, Child and Infant CPR, AED and First Aid Certification.  
Credit: one credit hour.

**MVSC-201. HUMAN ANATOMY AND PHYSIOLOGY I 4:3:1**

This first course of a two-semester course sequence offers study of human anatomy and physiology at the cell, tissue, and organ system levels of organization. First semester topics include anatomical terminology, cells, cell metabolism, tissues, and the integumentary, skeletal, muscular, and nervous systems. Credit, four hours.  
Credit: four hours each semester.

**MVSC-202. HUMAN ANATOMY AND PHYSIOLOGY II 4:3:1**

This second course of the two-semester course sequence focuses on topics which include the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, reproductive systems, human immunity, electrolytes and water balance, and human growth and development. Pre-requisite: MVSC 201.  
Credit: four hours each semester.

**MVSC-203. FITNESS MANAGEMENT 3:3:0**

This course examines the health-fitness specialist's role in facility administration and program management. Review of assessment techniques, health promotion programming, evaluation and marketing strategies, equipment maintenance and legal implications of documented health screening and safety procedures.  
Credit: three hours

**KINE-203. ORGANIZATON AND ADMINISTRATION IN ALLIED HEALTH 3:3:0**

This course will challenge students to develop an understanding of the organizational and administrative side of health programs. Students will develop professional relationships with health programs within the Dover community. Students will be required to examine current trends in health programs and opportunities for employment. Additionally, this course will require students to assess their own skills, identify a professional interest and develop soft skills necessary for employment.  
Credit: three hours

**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.  
Credit: three hours.

**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.  
Prerequisite: PSYC- 201.  
Credit: three hours.

**MVSC-212. MEDICAL TERMINOLOGY (KINE-212) 3:3:0**

This course will introduce the root words that comprise the basic prefixes, roots, and suffixes for medical terminology relating to the anatomic, diagnostic, symptomatic, and procedural terms. Practice and interpret standard abbreviations and pharmacological terms used in medical fields.  
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 athletes' nutritional requirements for their given sports.

Prerequisites: MVSC 201, MVSC 202, MVSC 355.

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.

**KINE-255. INTRODUCTION TO MOTOR LEARNING & CONTROL WITH LAB****3:3:1**

This course examines the behavioral, physiological, and psychological principles underlying motor control and motor learning. Specific topics include classifications and measurement of motor performance; the role and function of sensory processes, perception, memory, and attention; and the delivery of feedback and structure of practice.

Prerequisite BIOL 207; Co-requisite BIOL208.

Credit: four hours

**MVSC-257. EXERCISE TESTING****3:3:1**

This course presents practical experiences and theoretical knowledge in the selection, administration, and interpretation of various health-related fitness tests. Emphasis is placed on proper technique and communication throughout the assessment process.

Prerequisites: MVSC 201, MVSC 202 and MVSC 355.

Credit, four hours.

**MVSC-265. RESEARCH DESIGN (KINE-265)****3:3:0**

The course examines and compares types of research. Students will write a literature review and construct a research design. Research protocol, statistical analysis as it relates to research design, reporting techniques, APA formatting, and reference styles are incorporated. This is a writing emphasis class.

Prerequisites: MTSC 241 or PSYC 322 or SCWK 310 and ENGL 101 and ENGL 102.

Credit: three hours.

**KINE-300. EXERCISE PHYSIOLOGY WITH LAB****4:3:1**

Exercise Physiology provides students with a comprehensive understanding of how the human body responds, adjusts, and adapts to exercise. This course will offer cultural, historical and philosophical perspectives of physiology. Social, cultural, and historical factors direct research that continues to develop the field of physiology. Additionally, this course will focus on energy transfer during aerobic and anaerobic activity as well as the pulmonary, cardiovascular and neurological adaptations that occur with training.

Prerequisites: BIOL 207 and BIOL 208.

Credit: four credits

**KINE-302. FUNDMENTALS OF KINESIOLOGY****3:3:0**

This course will involve the application of basic knowledge related to the field of Kinesiology. Students will utilize medical and scientific terms to describe the patterns, mechanics, and physiology associated with human movement. Students will also be trained to effectively analyze movement to recognize inefficiencies and disorders.

Prerequisites: BIOL 207 and BIOL 208.

Credit: three hours

**MVSC-319. BIOMECHANICS****3:3:0**

This course examines fundamental mechanical principles involved in the process of the production of human movement and optimization of performance. Application of kinematics and kinetic principles to human movement are discussed, and students are introduced to qualitative and quantitative mechanical analysis of human movement. Prerequisites: MTSC 121 and MTSC 241 or PSYC 322 or SCWK 310. Credit, three hours

**KINE-319. BIOMECHANICS WITH LAB****4:3:1**

This course will discuss the applications of kinematic and kinetic principles to human movement. Students will also be introduced to qualitative and quantitative mechanical analysis of human movement. Prerequisites: BIOL 207 and BIOL 208. Credit: four 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: four hours.

**MVSC-363. PHYSICAL ACTIVITY EPIDEMIOLOGY (KINE-363)****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-364. EXERCISE PRESCRIPTION****3:3:0**

This course provides the theoretical knowledge and practical skills to design personalized exercise programs that elicit specific physiological responses and adaptations. Emphasis is placed on prescribing safe and effective individualized cardiorespiratory, musculoskeletal, and weight management programs. Prerequisites: MVSC-201, MVSC-202, MVSC-257, MVSC-355. Credit, three hours.

**KINE-364. EXERCISE TESTING AND PRESCRIPTION****4:3:1**

This course presents practical experiences and theoretical knowledge in the selection, administration, and interpretation of various health-related fitness tests. This course provides the theoretical knowledge and practical skills to design personalized exercise programs that elicit specific physiological responses and adaptations. Emphasis is placed on prescribing safe and effective individualized cardiorespiratory, musculoskeletal and weight management programs. Prerequisites: KINE 300, KINE 302, and KINE 255. Credit: four hours

**KINE-369. KINESIOLOGY OBSERVATION****3:3:0**

This course is designed to provide students with a practical learning experience in the field. This course will expose students to professional opportunities related to the desired career path to help students make informed decisions about the senior capstone internship experience. Prerequisites: KINE 110, KINE 302, and KINE 265. 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.

Prerequisites: Instructor Permission

Credit: one to three hours each semester.

**KINE-370. RESEARCH EXPERIENCE IN KINESIOLOGY****3:3:0**

Students will apply concepts and theories of research design in a laboratory setting. Small experiments related to problems associated with human movement will be performed by student researchers under the supervision of the Kinesiology faculty. Students will gain experience related to the skills of reading, writing, and reviewing high volumes of research-based literature. This course is, therefore, highly reading and writing intensive.

Prerequisites: KINE 110, KINE 302, KINE 265, and instructor approval.

**MVSC-401. NEUROMECHANICS OF HUMAN MOVEMENT (KINE-401)****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: KINE-255, KINE-319

Credit: three hours.

**MVSC-402. INTRODUCTION TO HUMAN TISSUE MECHANICS (KINE-402)****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: KINE-319

Credit: three hours.

**MVSC-410. CLINICAL EXERCISE PHYSIOLOGY (KINE-410)****3:3:1**

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: KINE-300, KINE-364, KINE-265

Credit: three hours.

**MVSC-415. EXPERIMENTAL EXERCISE PHYSIOLOGY (KINE-415)****3:3:1**

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: KINE-265, KINE-300, KINE-364

Credit: three hours.

**MVSC-461. PREVENTION AND CARE OF ATHLETIC INJURIES****3:3:1**

This course is designed to introduce roles of the sport medicine team, liability issues, and necessary skills and competencies required for identification, basic injury treatment, and basic rehabilitation principles of basic athletic injuries. Students in this course will modify exercise programs to accommodate injuries. The course includes the study of common causes of injuries and evidence-based best practices of injury prevention and care.

Prerequisite: MVSC-201, MVSC-202, MVSC-257, MVSC-265, MVSC-355, MVSC-364.

Credit, three hours.

**KINE-461. INTRODUCTION TO MUSCULOSKELETAL INJURIES AND REHABILITATION****3:3:0**

This course is designed to provide an overview of basic orthopaedic injuries and related musculoskeletal system dysfunctions as well as rehabilitation of those injuries and dysfunctions. Common orthopaedic injuries of all major musculoskeletal structures and tissues are discussed moving up the kinetic chain from the feet up the lower extremities, through the spine and out the upper extremities to the hands. Common injuries such as sprains, strains, fractures, tendinopathies, disc herniation, spinal stenosis, compartment syndromes, neural compression, carpal tunnel syndrome and thoracic outlet syndrome will be discussed. Anatomy and function of each body region will be reviewed prior to the discussion of injuries. Mechanisms of injury, tissue pathology and the tissue healing processes are reviewed. The role of inflammation in the healing of injured tissues will be explored and the variations in healing processes between tissues explained. A general rehabilitation process is discussed and rehabilitation concepts unique to specific injuries are explored. Basic principles of the major components of a rehabilitation program are explained. Methods of facilitating balance and neuromuscular control will be demonstrated. Modifications of common exercises to accommodate for injuries and allow continued participation in exercise routines will be presented. This course is appropriate for pre-allied health professionals and fitness professionals with an interest in orthopaedic injuries, musculoskeletal system rehabilitation and the construction of exercise programs that prevent, or accommodate for, musculoskeletal problems.

Prerequisites: KINE-210, KINE- 319, and KINE-364.

Credit: three hours.

**MVSC-463. 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-257

Co-requisite: MVSC 364

Credit: four hours.

**KINE 463- STRENGTH AND CONDITIONING WITH WORKSHOP/KINE 463****4:4:0**

Students will review exam topics through a combination of classroom and practical experience. Throughout this course, students will be taking practice Certified Strength and Conditioning Specialist exams. Students intending to enter the fitness field may work with athletes and should be able to design strength and conditioning programs. An emphasis will be placed on the acute and chronic adaptations to strength and conditioning programs, including methods such as, plyometrics, speed/agility/speed-endurance training, and core training.

Prerequisite: KINE-364.

Credit: four hours.

**MVSC-464. ELECTROCARDIOGRAPHY (KINE-464)****3:3:0**

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-275, MVSC-364.

Credit: three hours.

**KINE-465. ADAPTIVE PHYSICAL ACTIVITY****3:3:0**

Students will discuss how physical activity in early childhood can establish a healthy lifestyle carried through adult hood. Additionally, students will identify special considerations necessary for individuals with metabolic, pulmonary, or cardiovascular disease. Furthermore, students will apply kinesiology principles to a variety of physical activity programs.

Prerequisite: KINE-364.

Credit: three hours.

**MVSC-467. INTRODUCTION TO GAIT ANALYSIS (KINE-467)****4:4:0**

Review of basic science from anatomy, physiology, motor control and biomechanics, walking gait, ground reaction forces, changes in gait with age, pathological and other abnormal gates, basics of movement sensing, measurement of gates with sensors-camera based sensors, accelerometers, pressure sensors, gyroscopes, electrogoniometers and other devices for gait analysis, applications of gait analysis. This course is jointly offered by the Department of Physics and Engineering (DPE) and Department of Public and Allied Health Science (PAHS). This course has a laboratory section.

Credit, four hours.

Prerequisite: MVSC-319

4.000 Credit hours

4.000 Lecture 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-319

Credit: three hours.

**KINE 470-MOTOR DEVELOPMENT****3:3:0**

This course will focus on the changes in motor behavior that occur over time throughout the course of the human lifespan. The underlying physiological and psychological processes that drive these changes will be thoroughly discussed. Prerequisite: KINE-255.

Credit: three hours

**MVSC- 475. CSCS EXAM WORKSHOP****1:1:0**

This is an intensive workshop designed to address and fine-tune theory and practice specifically related to the content of NCSA's Certified Strength and Conditioning Specialist examination. Students will review exam topics through a combination of classroom and practical experience. Throughout this course, students will be taking practice CSCS exams.

Prerequisites: MVSC-201, MVSC-202, MVSC-257, MVSC-355, MVSC-364, MVSC-463.

Credit, one hour.

**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 American College of Sport Medicine's Certified Exercise Physiologist (EP-C) Certification Exam. The course focuses on the competency areas of the exam, with an emphasis on exercise physiology, testing, and prescription. Practice questions and a practice exam are provided.

Prerequisites: MVSC-201, MVSC-202, MVSC-257 MVSC-355, MVSC-364. Credit, one hour. Prerequisites: MVSC-355, MVSC-362, MVSC-466

Credit: one credit

**KINE-476. ACSM EXERCISE PHYSIOLOGIST CERTIFICATION WORKSHOP****3:3:0**

This intensive workshop allows students to review the knowledge, skills, and abilities required to sit for and pass American College of Sport Medicine's Exercise Physiologist Certification Exam. The course focuses on the competency areas of the exam, with an emphasis on exercise physiology, testing, and prescription. Practice questions and a practice exam for the exam are provided.

Prerequisite: KINE-319, KINE-364, KINE-465, and KINE- 463.

**MVSC-481. MOVEMENT SCIENCE RESEARCH OPTION 1****3:1:2**

This course will provide an opportunity to actively engage in a mentored individual research project in a Movement Science discipline. A scholarly report is required. This course with MVSC 482 is a senior capstone experience option for movement science students.

Prerequisites: MVSC 201, MVSC 202, MVSC 257, MVSC 265, MVSC 355, MVSC 364, ENGL 101 and ENGL 102.

Credit, three hours.

**KINE-481. SENIOR SEMINAR RESEARCH OPTION I****3:1:2**

The course will emphasize the importance of scientific research and also the corresponding integrity, ethics, and etiquette involved in working as a part of a research group. Students will gain experience related to the skills of reading, writing, and reviewing high volumes of research-based literature. Additionally, this course will allow the undergraduate student to participate in all facets of the research process. This will include reviewing literature, developing appropriate research questions, submitting an IRB application process, recruiting participants, obtaining informed consent, data collection, and statistical analysis. This course is highly reading and writing intensive. Each student will be responsible for writing a formal scholarly report in relation to the research project that will satisfy departmental senior capstone requirements.

Prerequisites: KINE-370 and instructor permission.

Credit: three hours.

**MVSC-482. MOVEMENT SCIENCE RESEARCH OPTION 2****3:1:2**

This course will provide an opportunity to actively engage in a mentored individual research project in a Movement Science discipline. A scholarly report is required. This course with MVSC 481 is a senior capstone experience option for movement science students. Prerequisites: MVSC 201, MVSC 202, MVSC 257, MVSC 265, MVSC 355, MVSC 364, MVSC 481, ENGL 101 and ENGL 102. Credit, three hours.

**KINE-482. SENIOR SEMINAR RESEARCH WRITING OPTION II****3:2:1**

The course will emphasize the writing components of the scientific research process. Each student enrolled in this course will be responsible for writing a formal scholarly report in relation to the research project conducted as part of KINE-481. This formal written manuscript will satisfy departmental senior capstone requirements.

Prerequisite: KINE-481.

Credit: three hours

**MVSC-483. 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 an internship with a business or company in the health and fitness fields. Students will write a paper describing a field experience and relate it to current literature. Students must present their work orally in an open meeting format and provide a final paper detailing the work to the department. Prerequisites: MVSC 200, MVSC 201, MVSC 202, MVSC 365, MVSC 257, MVSC 355, MVSC 364, Current CPR, First Aid, and AED certification. Credit, six hours.

Prerequisites: Senior Movement Science majors

Credit: six hours.

**KINE-483. KINESIOLOGY SENIOR CAPSTONE WRITING****3:3:0**

A seminar course and capstone experience required of all Kinesiology majors. Students will write a paper describing a field experience and relate it to current literature. Students must present their work orally in an open meeting format and provide a final paper detailing the work to the department. Prerequisite: KINE-369

Credit: three hours

**KINE-484: KINESIOLOGY SENIOR CAPSTONE****3:1:2**

A seminar course and capstone experience required of all Kinesiology majors. Students may meet this requirement by completing an internship with a business or company in the health and fitness fields. The purpose of this course is to provide students with a practical work experience the field. Prerequisite: KINE-483.

Credit: three hours

**B. S. DEGREE IN PUBLIC HEALTH**  
Effective Fall 2016

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-101	English Composition 1 <sup>W</sup>	1	ENGL -102	English Composition II <sup>P,W</sup>	3
____-101	Arts and Humanities* (Foreign Language I <sup>REC</sup> )	3	____-102	Arts and Humanities* (Foreign Language II <sup>REC</sup> ) * <sup>P</sup>	3
PUBH-105	Introduction to Public Health	3	SCCJ-101	Introduction to Sociology *	3
MVSC-191	University Seminar I	1	MVSC-192	University Seminar II	1
MVSC 101	Lifetime Fitness and Wellness	2	MTSC-121	College Algebra	3
HIST-xxx	History <sup>A</sup>	3	BIOL-1xx	BIOL (100, 101, 103, 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
BIOL-207	Anatomy & Physiology I w Lab <sup>P</sup>	4	BIOL-208	Anatomy & Physiology II w Lab <sup>P</sup>	4
ENGL-2xx	Literature <sup>P,A *</sup>	3	PUBH-236	Substance Use and Abuse	3
PUBH-220	Public Health Informatics & Communication <sup>P</sup>	3	PUBH-205	Foundations of Health Education <sup>P</sup>	3
HMEC-215	Introduction to Nutrition <sup>P</sup>		PUBH-234	Global Health	3
MTSC-241	Elementary Statistics		ENGL-200	Speech <sup>P</sup>	3
PSYC-322	Elementary Statistics	3			
SOC-310	Elem. Statistics for Social Work <sup>P</sup>		MVSC-200	CPR and First Aid	1
	<b>Total Credits</b>	<b>16</b>		<b>Total Credits</b>	<b>17</b>
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
GLOB -395	Global Societies	3	PUBH-337	Program Planning/Evaluation in Health Education/Promotion <sup>P</sup>	3
PUBH-331	Observation and Fieldwork	3	PUBH-330	Introduction to Chronic Diseases <sup>P</sup>	3
PUBH-333	Infectious Diseases and Injury Prevention <sup>P</sup>	3	PUBH-332	Health Administration and Policy	3
PUBH-xxx	PUBH Elective (335 or 339)	3	PUBH-340	Health Disparities <sup>P</sup>	3
____-____	Elective <sup>M REC</sup>	3	MVSC-265	Research Design <sup>P</sup>	3
	<b>Total Credits</b>	<b>15</b>		<b>Total Credits</b>	<b>15</b>
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PUBH-431	Principles of Epidemiology <sup>P</sup>	3	PUBH-432	Health Practicum <sup>S,P</sup>	12
PUBH-402	Environmental Health <sup>P</sup>	3			
PUBH-410	School and Community Health Education <sup>P</sup>	3			
____-____	Elective <sup>M Rec</sup>	3			
____-____	Elective <sup>M Rec</sup>	3			
	<b>Total Credits</b>	<b>15</b>		<b>Total Credits</b>	<b>12</b>

Notes: Students must complete all curriculum requirements listed on this sheet with a grade of "C" or higher.

A = African American Experience: Students should enroll in one of the following to satisfy the DSU African-American experience requirement: HIST-203 or HIST-204, ENGL-205, or ENGL-206.

M = Minor. It is recommended, but not required, to select a minor area of study, and utilize electives to fulfill minor requirements.

P = Pre-Requisite Course(s)

S = Senior Capstone. Students must be certified in First Aid and CPR and must complete ALL Coursework prior to taking PUBH- 432.

W = Writing intensive course

REC = Recommended

\* One course must be an African American Experience course and two courses must be multicultural courses

<b>Total Credits: 122</b>
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**No concentration is required for this major.**

**Non-courses requirements for the major:** All courses on the curriculum sheet must be passed with at least a grade of a C.

Students must complete all coursework and be certified in CPR, first aid and AED before taking PUBH 432 Health Practicum (senior capstone)

**Major courses:**

Subject Code	Course Number	Course Name	Number of Credits
PUBH	105	Intro to Public Health	3
PUBH	205	Foundations of Public Health Education	3
PUBH	220	Public Health Informatics and Communication	3
PUBH	234	Global Health	3
PUBH	236	Substance Use & Abuse	3
PUBH	330	Intro to Chronic Diseases	3
PUBH	331	Observation & Fieldwork	3
PUBH	332	Health Administration and Policy	
PUBH	333	Infectious Diseases & Injury Prevention	3
PUBH	337	Program Planning/Evaluation in Health Education/Promotion	3
PUBH	340	Health Disparities	3
PUBH	402	Environmental Health	
PUBH	410	School and Community Health Education	3
PUBH	431	Principles of Epidemiology	3
PUBH	432	Health Practicum	12

**Major Electives:** PUBH 335 Mental Health & Stress Management, PUBH 339 Human Sexuality

**Other required courses for the major:**

Subject Code	Course Number	Course Name	Number of Credits
SCCJ	101	Introduction to Sociology	3
MTSC	241	College Algebra	3
BIOL	207	Anatomy & Physiology I	4
BIOL	208	Anatomy & Physiology II	4
HMEC	215	Introduction to Nutrition	3
MTSC PSYC SCWK	241, 322, or 310	Elementary Statistics	3
KINE	200	CPR & First Aid	1
KINE	265	Research Design	3

**General Education Breadth courses:**

Breadth Area	Any Approved Course or list course/courses
Literature (three credits)	Any approved course
History (three credits)	Any approved course
Mathematics (three or four credits)	MTSC 121
Natural Science with Laboratory (three or four credits)	BIOL 100, 101, 103 or 107
Social Science (three credits)	SCCJ 101
Arts/Humanities (two three-credit courses)	Any approved course; foreign language is recommended

**Across-the-Curriculum (A-t-C)**

<b>Program/Major</b>		Public Health
<b>Concentration (if applicable)</b>		N/A
<b>Effective Date</b>		Fall 2016
<b>A-t-C Outcome</b>	<b>Course(s)</b>	<b>Course Name(s)</b>
<b>Reading</b>	PUBH 220	Public Health Informatics & Communication
<b>Writing Intensive or Writing in Major (outside capstone)</b>	PUBH 337 KINE 265	Program Planning/Eval Health Education Research Design Methods
<b>Speaking – Oral Communication – Presentation</b>	PUBH 220	Public Health Informatics & Communication
<b>Speaking – Oral Communication – Discussion</b>	PUBH 220 PUBH 331 PUBH 340	Public Health Informatics & Communication Observation and Fieldwork Health Disparities
<b>Listening</b>	PUBH 220	Public Health Informatics & Communication
<b>Computer Competency</b>	PUBH 220 PUBH 431	Public Health Informatics & Communication Principles of Epidemiology
<b>Information Literacy</b>	PUBH 220 PUBH 337 PUBH 340	Public Health Informatics & Communication Program Planning/Eval Health Education Health Disparities
<b>Critical Thinking/Problem Solving</b>	PUBH 431 PUBH 337 PUBH 330	Principles of Epidemiology Program Planning/Eval Health Education Introduction to Chronic Diseases
<b>Quantitative Reasoning</b>	PUBH 220 PUBH 431	Public Health Informatics and Communication Principles of Epidemiology
<b>Multicultural</b> 6 credits (choose two)	Any approved courses	
<b>African-American Experience</b>	Any approved course	
<b>Self-Evaluation</b>	PUBH 432	Health Practicum
<b>Wellness</b>	PUBH 105 PUBH 330 PUBH 340	Introduction to Public Health Introduction to Chronic Diseases Health Disparities
<b>Global Issues</b>	PUBH 234	Global Health

## **PUBLIC HEALTH – PUBH**

### **PUBH-105 (HEPR-105). INTRODUCTION TO PUBLIC HEALTH**

**3:3:0**

This course introduces students to the broad context of public health, including the mission, core functions, structure, policy role and program activities. Theoretical and practical perspectives are presented to illustrate contemporary strategies for health promotion and disease prevention, and how public health operates at the state and national levels. Critical health issues are examined from a practice perspective to stimulate classroom discussion of both the problem and the public health system's efforts to solve the problem. Credit, three hours.

### **PUBH-205 (HEPR – 205). Foundations of Health Education**

**3:3:0**

The health education profession is dedicated to excellence in the promotion of individual, family, organizational, and community health. Health educators are responsible for upholding the integrity and ethics of the profession as they face the daily challenges of making decisions. This course examines the field of health education in terms of historical developments, professional standards, roles, theoretical foundations, ethics, application, and settings. This course also addresses the professional competencies and the academic preparation of health educators as well as the role of professional organizations in public health. Credit, three hours.

### **PUBH-220 (HEPR – 220). Public Health Informatics and Communication**

**3:3:0**

This 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, and technological. Prerequisites: HEPR 105, HEPR 205. Credit, three hours.

### **PUBH-234 (HEPR-234). Global Health**

**3:3:0**

This course addresses the fundamental frameworks to understanding global health issues and health enhancement at a population level. This course examines major health and health-related challenges faced by developing nations as well as nations with limited resources and how global health partners are identifying solutions to challenges. Students will analyze various health issues and disorders faced by many nations in a variety of cultural settings and health systems relative to global health goals and partnerships. Credit, three hours.

### **PUBH-236 (HEPR-236). Substance Use and Abuse**

**3:3:0**

Substance abuse has a major impact on individuals, families, and communities. This course will address the consumption of mind and behavior altering substances that have a negative impact on health and behavior. Social, political and legal attitudes and responses to the consumption of alcohol and use of illicit drugs have made substance abuse a highly complex public health issue. This course will examine the significance of the substance abuse issue within the criminal justice system and the debate as to whether substance abuse is a disease with genetic and biological foundations or a matter of personal choice. Credit, three hours.

### **PUBH-330 (HEPR – 330). Introduction to Chronic Diseases**

**3:3:0**

Chronic diseases are the leading cause of death and disability in the United States. This course will focus on the prevention, consequences, and control of selected chronic diseases (cancer, diabetes, cardiovascular diseases, etc). This course will investigate risk factors and preventative measures for chronic diseases as related to public health and the role of genomics in chronic disease management. Prerequisites: HEPR 105, HEPR 205, BIOL 208. Credit, three hours.

### **PUBH-331 (HEPR – 331). Observation and Fieldwork**

**3:3:0**

This course provides Public Health majors with field work experience for a minimum of sixty hours on a part-time basis. Students will select a community health agency or public health facility in the local area to complete the required hours. Prerequisites: HEPR 105, HEPR 205; CPR, First Aid, AED certification. Credit, three hours

- PUBH-332 (HEPR – 332). Health Administration and Policy** **3:3:0**  
This course will examine the organization, financing aspects and delivery of public and personal health services. Current health policy and management issues as related to access, quality and cost will be a major emphasis. Credit, three hours.
- PUBH-333 (HEPR – 333). Infectious Diseases and Injury Prevention** **3:3:0**  
The purpose of this course is to address epidemiological patterns, etiology and risk factors of selected infectious diseases from a population perspective. This course will also address emerging infectious diseases and epidemiologic transition. Infectious diseases are a major worldwide health dilemma. They are responsible for the loss of life of millions of children and crippling chronic conditions among adults, especially in developing countries. Prerequisites: HEPR 105, HEPR 205, BIOL 208. Credit, three hours.
- PUBH-335 (HEPR – 335). Mental Health and Stress Management** **3:3:0**  
This course focuses on issues relating to mental and emotional health, including stress and stress management. Services in the community are also explored. Credit, three hours.
- PUBH-337 (HEPR – 337). Program Planning/Evaluation in Health Education/Promotion** **3:3:0**  
This course provides students with a sequential model for community health program planning. Major elements of the course include the following: the study of philosophies, the performance of a needs assessment, the development of health goals and objectives, the construction of a health education/health promotion program and evaluation measures. Prerequisites: HEPR 105, HEPR 205. Credit, three hours.
- PUBH-339 (HEPR – 339). Human Sexuality** **3:3:0**  
This course addresses the basic aspects of human sexuality, including human sexual response, the development of sex roles and sexual lifestyles, the reproduction and control of reproduction, AIDS, other sexually transmitted diseases and societal legal implications of sexuality. Credit, three hours.
- PUBH-340 (HEPR – 340). Health Disparities** **3:3:0**  
This course is a critical analysis of the historical, political, economic, social, cultural and environmental conditions that lead to inequitable health status in the United States population. Parameters such as ethnicity, gender, sexual orientation, age and disability contribute to health disparity among specific populations and communities. Prerequisites: HEPR 105, HEPR 205. Credit, three hours.
- PUBH-402 (HEPR – 402). Environmental Health** **3:3:0**  
This course examines the causes and approaches to control major environmental health problems. This course will address physical, chemical, and biological agents of environmental contamination and vectors of dissemination (air, water, soil), solid and hazardous waste issues and population susceptible environmental health problems. This course will also address the role of science in policy decisions and other emerging global environmental health problems. Prerequisites: HEPR 105, HEPR 205. Credit, three hours.
- PUBH-410 (HEPR – 410). School and Community Health Education** **3:3:0**  
This course examines the relationship between childhood health and the K-12 school experience. The eight components of the Centers for Disease Control-coordinated school health program model is the organizing framework. Topics include the history and development of school health, the relationships of in-school health interventions to student health status, health care access, and academic outcomes. Prerequisites: HEPR 105, HEPR 205. Credit, three hours
- PUBH-431 (HEPR – 431). Principles of Epidemiology** **3:3:0**  
Epidemiology is considered a basic science of public health. This course addresses the basic principles and methods of epidemiologic investigation including relative to patterns of illness and the etiology of disease. This course will

introduce quantitative measures to determine risk and the standardization of rate procedures. Prerequisites: MTSC 241, PSYC 322, or SCWK310; HEPR 105, HEPR 205. Credit, three hours

**PUBH-432 (HEPR – 432). Health Practicum**

**3:3:0**

The purpose of the Health Practicum is to provide Public Health students the opportunity to apply knowledge and experiences obtained in public health coursework in a real-world setting. The Health Practicum is a 400 hour structured and supervised professional experience with an approved agency. Prerequisite: Completion of Public Health coursework; CPR, First Aid, AED certification

# **COLLEGE OF ARTS, HUMANITIES AND SOCIAL SCIENCES**

## **(“Creating an Informed Global Citizenry”)**

**Dean:** Dr. Francine Edwards

**Associate Dean:** Dr. Akwasi Osei

**Director of CAHSS Advisement Center:** Rhonda Thompson

### **VISION**

The vision of the College of Arts, Humanities and Social Sciences (CAHSS) is to develop academic programs that 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 degree in Integrated Studies is an interdisciplinary program which allows students to develop individualized programs of study through a broad-based education in the humanities, social sciences, and natural sciences. The flexible nature of the program allows students to integrate courses within the university to achieve personalized educational goals. Students 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 toward the degree.

***Students select two focus areas and integrate them in a capstone experience. The focus areas correspond to existing DSU departments, disciplines and subject areas. Each focus area consists of seven courses and/or 21 hours. In addition, students must enroll in Theories and Methods in Integrated Studies. This research methods class is required and is taken before the capstone.***

This degree fits into DSU's mission of providing relevant and meaningful education based on the liberal arts and the professions. It affords students the opportunity to bring together different types of knowledge across disciplines, over time, and more importantly, bridge the gap between the classroom, the community, and the person.

### **Framing Language:**

Fostering students' 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 integrated learning. Faculty look for evidence that the student connects the learning gained in the classroom study to learning gained in real life situations that are related to other learning experiences, extra-curricular activities or work. Students pull together their entire experiences 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:**

- Complete the University's General Education Program;
- Complete no more than 40 Upper Division credits (courses 300 level and above) in the entire I.S. curriculum;
- Choose two focus areas; all course grades must be C or better;
- Complete 30 credits at DSU;
- Have a 2.00 cumulative GPA to graduate; and
- Enroll in the class *Theories and Methods in Integrated Studies (INST 395)* and pass with at least a C;
- Complete the Interdisciplinary Capstone course INST 495 with a C or better.

Students must complete **all focus area courses and the *Theories and Methods* course before taking the Integrated Capstone course**. Students can transfer up to 90 credits hours from any accredited institution, (they must then complete the last 30 credits at DSU) and will have up to 5 (five) years to finish the degree. Internal transfer and regular transfer students must have at least **sixty (60) credit hours** to declare the major.

For further information, please see **Dr. Phyllis Brooks Collins, Director of the Integrated Studies Program, x6694; EH Room 288.**

**Procedures concerning Internal Transfer to Integrated Studies:**

Students from another DSU major seeking admittance into the INST program will need:

- **a minimum 2.3 cumulative GPA;**
- **60 credits;**
- **a past record of academic rigor;**
- **stability (by demonstrating good academic standing throughout their matriculation at the university).**

Those students who possess between 2.3 – 2.0 **may be** required to provide an additional evidence of academic rigor and stability by providing evidence of their last completed academic semester or term of at least 12 credits and earning a term GPA of 2.5 or above.

**Student who have under a 2.0 cumulative GPA will not be eligible for admittance to the program, but may be considered for admittance** in the future after completing a semester or term of at least 12 credits and earning a term GPA of 2.5 or above.

**INTEGRATED STUDIES MAJOR  
2012 – 60 Credits PLUS**

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
	Natural Science w/lab	4		Arts/Humanities (including language)	3
MTSC-xxx	Mathematics	3		Arts/Humanities (including language)	3
	History	3		Social Science	3
xx-191	University Seminar I	1	xx-192	University Seminar II	1
MVSC-100	Fitness and Wellness	2	201 or 202 or 205 or 206	World Literature 1 or II or African American Literature I or II	3
	Total Credits	<b>16</b>		Total Credits	<b>16</b>
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
	FA 1	3	ENGL 200	Speech	3
	FA 1	3		FA 1	3
	FA 1	3		FA 2	3
	FA 1	3		FA2	3
	FA1	3		FA2	3
	FA 1	3		FA2	3
	Credits	<b>18</b>		Credits	<b>18</b>
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
	FA2	3		Open Elective	3
	FA2	3		Open Elective	3
	FA 2	3	GLOB 395/ EDUC 318	Global Societies/Multicultural Education	3
MIS 105	Microcomputer Applications	3	PHIL 201/101	Intro to Philosophy/Critical Thinking	3
				Open Elective	3
	Credits	<b>12</b>		Credits	<b>15</b>
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
INST395	Theories and Methods in IS**	3	INST495	Interdisciplinary Capstone Senior Capstone***	3
	Open Electives	9		Open Electives	10
	Credits	<b>12</b>		Credits	<b>13</b>

**TOTAL 120**

**2.00 Cumulative GPA;** 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); Students who are internal transfers from the university must have **60** earned credits.

\* Across the Curriculum (A-T-C) Requirement

\*\*Theories and Methods of Integrated Studies (INST 395) must be completed the semester before the Interdisciplinary Senior Capstone (INST 495)

\*\*\*Interdisciplinary Senior Capstone (INST 495) must be taken in the final semester and cannot be taken in conjunction with any focus area courses, only elective courses may be taken.

**INTEGRATED STUDIES MAJOR  
(4 Year Curriculum) 2016**

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
	Natural Science w/lab	4	PHIL 101	Critical Thinking (Arts/Humanities (including language))	3
MTSC-xxx	Mathematics	3		Arts/Humanities (including language)	3
	History	3		Social Science	3
xx-191	University Seminar I	1	xx-192	University Seminar II	1
MVSC-100	Fitness and Wellness	2	201 or 202 or 205 or 206	World Literature 1 or II or African American Literature I or II	3
	Total Credits	<b>16</b>		Total Credits	<b>16</b>
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MIS 105	Microcomputer Applications	3	ENGL 200	Speech	3
	Open Elective	3		FA 1	3
	FA 1	3		FA 1	3
	FA 1	3		FA 1	3
	FA1	3		FA2	3
	FA 1	3		FA2	3
	Credits	<b>18</b>		Credits	<b>18</b>
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
	FA2	3		FA 2	3
	FA2	3		FA 2	3
	FA 2	3	GLOB 395/EDUC 318	Global Societies/Multicultural Education	3
PHIL 201	Intro to Philosophy	3	ENG 311	Advanced Composition	3
				Open Elective	3
	Credits	<b>12</b>		Credits	<b>15</b>
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
INST395	Theories and Methods in IS*	3	INST495	Interdisciplinary Capstone Senior Capstone**	3
	Open Electives	9		Open Electives	10
	Credits	<b>12</b>		Credits	<b>13</b>

**TOTAL: 120**

**2.00 Cumulative GPA;** Must complete last **30** credits at DSU; Must complete **39** hours of upper division courses (**300 level or above**); (**One** course from the African American list, and **two** courses from the Multicultural list); Students who are internal transfers from the university must have **60** earned credits.

\* Across the Curriculum (A-T-C) Requirement

\*\*Theories and Methods of Integrated Studies (INST 395) must be completed the semester before the Interdisciplinary Senior Capstone (INST 495)

\*\*\*Interdisciplinary Senior Capstone (INST 495) must be taken in the final semester and cannot be taken in conjunction with any focus area courses, only elective courses may be taken.

## AFRICANA STUDIES

**Program Director:** Dr. Donna Patterson, Associate Professor, Department of History, Political Science, and Philosophy

**Africana Studies Advisory Committee:**

Dr. Akwasi Osei, Professor, Department of History, Political Science, and Philosophy

Dr. Dolores Finger Wright, Associate Professor, Department of Social Work

Dr. Marshall Stevenson, Professor, Department of History, Political Science and Philosophy

Dr. Raymond Tutu, Associate Professor, Global Societies Program

Dr. F. Odun Balogun, Professor, Department of English and Foreign Languages

**Website:** <https://cahss.desu.edu/departments/history-political-science-philosophy/africana-studies-minor>

**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 people of African descent and their agency within the framework of a liberal arts education at a Historically Black University.

### **Opportunities for Minors**

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 diversity and cross-cultural communication, the Africana Studies perspective also makes the student a more attractive candidate to prospective employers.

**Africana Studies minors go on to become lawyers, diplomats, public health practitioners, teachers, professors, archivists, and entrepreneurs.**

### **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 2.5. 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. Some of the themes examined in this course include pre-colonial African- European interactions, liberation, colonialism, gender, and contemporary issues facing the African Diaspora.

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 and literature 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. Recent topics include health, gender, and identity.

Enrollment Limit: 20.

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)**

POLS-307: Constitutional Law/ Political Science

POLS-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 and Recreation/ Sport Management

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

**Director: Dr. Akwasi P. Osei ([aosei@desu.edu](mailto:aosei@desu.edu)); 302.857.6622.**

**Associate Professor: Dr. Raymond A. Tutu**

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.

## WOMEN'S AND GENDER STUDIES

**Director:** Dr. Myrna Nurse

The Women's and Gender Studies Minor is an interdisciplinary degree that allows students a theoretical engagement of the historical issues regarding men and women. Students are encouraged to pursue their interest in matters related to the social construction of identity and power relations in a critical engagement of the intersections of race, class, gender, ethnicity, and sexuality toward an appreciation across disciplinary lines of the experiences of people of African and minority descent. The degree requires a completion of eighteen (18) credits.

### **WOMEN'S AND GENDER STUDIES- WMGS**

#### **WMGS 201- INTRODUCTION TO WOMEN'S AND GENDER STUDIES**

This course offers an introduction to Women's and Gender Studies, an interdisciplinary academic field that asks critical questions about the meaning of gender in society. The primary goal of this course is to familiarize students with key issues, questions and debates in Women's and Gender Studies scholarship, both historical and contemporary.

*Semester offering:* Fall and Spring semesters

#### **WMGS 210-WOMEN, FEMINISM AND THE MEDIA**

The course will explore representations of women in media as well as researching the work of women in the industry. Students will research and analyze how the media creates and challenges stereotypes, ideas of difference including exclusionary representations of minorities and women. Readings, class discussions and projects will explore how media shapes our attitudes and identities.

*Semester offering:* Fall semester

#### **WMGS 220-DIMENSIONS OF WOMEN'S HEALTH**

This course offers an introduction to Women's health. Topics related to health literacy, sexual and reproductive health, physical health and lifespan, and interpersonal and sociocultural dimensions of health are discussed. Spirituality and culture provide frameworks for critical thinking and discussion. The primary goal of this course is to familiarize students with key health issues related to women, healthy life-style choices, and cultural and spiritual influences on women's health.

*Semester offering:* Spring semester

#### **WMGS 230-INTRODUCTION TO FEMINIST PHILOSOPHY**

Students will become cognizant of, discuss, and write cogently about the central reasons for the development of feminist philosophy, and how it has helped to change the ways in which men and women think of and respond to their social and political roles. Philosophical questions to be explored are, for example: How does feminist philosophy conceive of sexuality and gender? Is knowledge gendered? Is value gendered? How does feminist philosophy conceive of human oppression and liberation? How does feminist philosophy conceive of universal principles and rights of humanity that aim to transcend our categorizations of people by sex, gender, race, class and nationality?

*Semester offering:* Spring semester

#### **WMGS 240-WOMEN IN PHYSICAL EDUCATION AND SPORTS**

This course will offer a historical and contemporary analysis of women's sports experiences and will discuss the historical and cultural foundations of women's sport from ancient times to the modern era. It will review the oppression historically experienced by women in sport and physical education. It will analyze the psychosocial dimensions of women's sport and physical education, including sociocultural, political, and economic factors that have led to the changes for women in sport. It will discuss biomedical considerations, touching on such topics as body composition, cardiovascular fitness, gender differences in muscular strength, exercise-induced amenorrhea, and osteoporosis. It will also focus on the representation of gender roles through sports in relation to legislative

issues, the media, political and contemporary issues, controversies, as well as successes and failures in women's sport participation.

*Semester offering:* Spring semester

### **WMGS 310-GENDER REPRESENTATION IN VISUAL CULTURE**

This course explores relationship between art and gender in the making and viewing of visual culture with emphasis on the later twentieth and early twenty-first centuries. Issues such as the roles of visual culture in the construction and representation of "woman" and other gendered identities will be highlighted.

*Semester offering:* Fall semester

### **WMGS 320-BIOLOGY OF SEX AND GENDER**

This course will examine the biological basis of sex and gender from physiological, evolutionary, behavioral, and psychological perspectives. In this course students will examine the intersection of the biological fact of sex with the social construct of gender, covering our current understanding of the neuroscience of sex differences, as well as the role that scientific discourse has played in the development of gender roles and attitudes. The course will also touch on contemporary controversies around sexual orientation, sex roles, and gender identity.

*Semester offering:* Spring semester

### **WMGS 330-THE PSYCHOLOGY OF GENDER**

This course examines the interplay of biological-psychological, cognitive-behavioral, sociocultural, and other variables as they relate to the theory and research on gender. The primary goal of this course is to familiarize students with key questions as well as historical and contemporary issues and debates in the field, including symbolic meanings assigned to gender and distinctions drawn between sex and gender. This course also aims to develop critical thinking.

*Semester offering:* Spring semester

### **WMGS 340-MEN AND WOMEN IN SOCIETY**

This 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. The format of this course includes lectures, discussion, in-class activities, and videos.

*Semester offering:* Fall semester

### **WMGS 410-RESEARCH ON MINORITY AND WOMEN-OWNED BUSINESSES**

Research on Minority and Women-Owned Businesses is a course in Minority, Women, and Small Business development with a focus on readings in issues that affect poverty, income inequality, and labor segmentation in the United States. Topics covered include data presentation, data analysis, hypothesis formulation, and research design. Reading topics will include black political economy, organized labor, racial discrimination, economic progress, capitalism and entrepreneurship, and reparations. Students will conduct a major research study on race, poverty, and entrepreneurship.

*Semester offering:* Fall semester

### **WMGS 420-WOMEN AND MEN OF THE CLASSICAL LETTRES**

The primary goal of this course is to familiarize students with key issues, questions, and debates in the scholarly field of Women's and Gender Studies, both historical and contemporary. The course critically analyzes themes of gendered performance and power in a range of social spheres, such as law, culture, work, medicine, science, health, and the family. It examines the interconnections among systems of oppression, including but not limited to sexism, racism, classism, ethnocentrism, homophobia/heterosexism, transphobia, and ableism. The course enables students to learn to "read" and analyze both sex and gender, exploring how both constructions of various identities impact their understanding of the world.

*Semester offering:* Spring semester

## DEPARTMENT OF MASS COMMUNICATIONS, VISUAL AND PERFORMING ARTS

**Department Chair:** Donald W. Becker

**Directors:** Mass Communications, Renee Marine  
Art, Lori Crawford  
Music, Frank Gazda

**Coordinators:** Art Education, Hazel Bradshaw-Young  
Music Education, Carla Becker

**Director, Choral Activities:** Lloyd Mallory

**Director, Bands:** Harvey Bullock

**Professors:** Asgede Hagos, Myna German, Roberta Tucci, Hazel Bradshaw-Young, LaPointe Davis, Patrick Hoffman, Frank Gazda

**Associate Professor:** Daniel Awodiya, Francine Edwards, Renee Marine, Donald Becker, Lori Crawford, Billy Colbert, Mabel Morrison, David Tolley, Lloyd Mallory

**Assistant Professor:** Carla Becker

**Visiting Lecturer:** Devin Mercer

**Instructor/ Radio Adviser:** Ava Perrine

**Music Technology Specialist/Instructor:** Marty Denson

**Technology and Studio Manager/Lecturer:** Vincent Ciammaichelli

### MASS COMMUNICATIONS OVERVIEW

The channels of communication in our everyday lives change and adapt continuously. In the Department of Mass Communications, students understand how and why these channels continue to change, and how to effectively use them to create content and get messages out to the public. The Department of Mass Communications produces graduates who specialize in convergence journalism, public relations/advertising, and radio, television, 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 convergence journalism, public relations/advertising, and digital media 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.

Approved Mass Comm Electives

MCOM 220 - Sports Broadcasting

MCOM 217 - Intro to Media Technology

MCOM 209 - Organizational Communication

MCOM 251 - PR Writing

MCOM 218 - Fundamentals of Public Relations (formerly Pub Rel. Prin. & Practices)

MCOM 440 - Media Management

MCOM 307 - Cinema and Society

MCOM 223 - Sound I

Approved Art Electives (choose 2)

ART 108 - Survey of Macintosh Studio

ART 207 - Computer Graphics

ART 208 - Computer Imaging

Approved English Electives (Choose 1)

ENGL 204 - Linguistics

ENGL 211 - Creative Writing

Public Relations and Advertising: 218, 280, 251 or 281, 342, 351, 353

Approved Mass Comm Electives

MCOM 220 - Sports Broadcasting

MCOM 336 - Digital Content Creation (formerly Online Journalism)

MCOM 217 - Intro to Media Technology

MCOM 209 - Organizational Communication

MCOM 223 - Sound I

MCOM 440 - Media Management

MCOM 307 - Cinema and Society

Approved Art Electives (choose 2)

ART 108 - Survey of Macintosh Studio

ART 207 - Computer Graphics

ART 208 - Computer Imaging

Approved English Electives (Choose 1)

ENGL 204 - Linguistics

ENGL 211 - Creative Writing

Digital Media Production: 217, 336

216 or 223 (Multi Camera Digital Production I OR Digital Audio I)

371 or 361 (Digital Video Production II OR Digital Audio Production II)

373 or 430 (TV News Production III OR Digital Audio Documentary Production)

307

Approved Mass Communications (choose 4)

MCOM 336 - Digital Content Creation (formerly Online Journalism)

MCOM 209 - Organizational Communication

MCOM 251 - PR Writing

MCOM 218 - Fundamentals of Public Relations (formerly Pub Rel. Prin. & Practices)

MCOM 405 - Visual Communications (formerly Techniques of Layout and Design)

MCOM 241 - Multi-Platform Writing (formerly Reporting and Writing I)

MCOM 342 - Magazine Feature Writing

MCOM 347 - Special Topics: Live Event Production

Approved Art Electives (choose 2)

ART 108 - Survey of Macintosh Studio

ART 207 - Computer Graphics

ART 208 - Computer Imaging

Approved English Electives (Choose 1)

ENGL 204 - Linguistics

ENGL 211 - Creative Writing

Elective Requirements

Electives offer students opportunities to acquire additional depth and skills in selected areas. Each student takes four (4) electives within Mass Communications, two (2) in Art and one (1) in English. The remainders are free electives, which can be taken outside the Department.



SENIOR FALL SEMESTER						SENIOR SPRING SEMESTER					
Course	Course Name	GRADE NEEDED TO PASS	CR	SEM	GRADE	Course	Course Name	GRADE NEEDED TO PASS	CR	SEM	GRADE
MCOM-460 or ___	Sr. Capstone* or Open Elective	C	3			MCOM-460 or ___	Open Elective or Sr. Capstone*	C	3		
MCOM-450	Internship*	C	3				Open Elective	D	3		
MCOM-307	Cinema & Society*	C	3				Open Elective	D	3		
**MCOM	Mass Comm Elective 4*	C	3				Open Elective	D	3		
ART	Art Elective 2 (108, 207 or 208)	C	3				Open Elective	D	2		
Total Credits			15			Total Credits			14		

**CREDITS REQUIRED FOR GRADUATION**      **120**

### Approved Mass Communications

MCOM 336 - Digital Content Creation (formerly Online Journalism)  
MCOM 209 - Organizational Communication  
MCOM 251 - PR Writing  
MCOM 218 - Fundamentals of Public Relations (formerly Pub Rel. Prin. & Practices)  
MCOM 405 - Visual Communications (formerly Techniques of Layout and Design)  
MCOM 241 - Multi-Platform Writing (formerly Reporting and Writing I)  
MCOM 342 - Magazine Feature Writing  
MCOM 347 - Special Topics: Live Event Production

NAME \_\_\_\_\_

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### Approved Art Electives

ART 108 - Survey of Macintosh Studio  
ART 207 - Computer Graphics  
ART 208 - Computer Imaging

### Approved English Electives

ENGL 204 - Linguistics  
ENGL 211 - Creative Writing

\* General education required core courses, Mass Communications core and concentrations courses and Mass Communications electives require a "C" or better or course must be retaken.

\*\* One of these courses (Literature or History) MUST be in the African American Experience.

Student are now required to take three (3) Mass Comm Electives outside of their concentration and two (2) Art Electives

**The remainder of the open electives (those without an asterisks) must be taken OUTSIDE the department**

**MASS COMMUNICATIONS**  
**Public Relations & Advertising 2017**

FRESHMAN FALL SEMESTER					
Course	Course Name	GRADE NEEDED TO PASS	CR	SEM	GRADE
ENGL-101	English Composition I*	C	3		
MTSC 101 or higher	MTSC ____	D	3		
MCOM-191	University Seminar I*	C	1		
MCOM-208	Foundations of Mass Comm* (formerly Intro)	C	3		
MCOM-218	Fundamentals of Public Relations (formerly Pub Rel. Prin. & Practices)*	C	3		
	Nat Science Requirement I	D	3		
	Total Credits		16		

SOPHOMORE FALL SEMESTER					
Course	Course Name	GRADE NEEDED TO PASS	CR	SEM	GRADE
ENGL-200	Speech*	C	3		
ENGL-	Literature World / African-Am Lit 1 (201 or 205)***	D	3		
MCOM-251 OR 300	Public Relations Writing OR Creative Advertising Techniques (formerly Adv. Copywriting****/(*))	C	3		
MCOM-280	Principles and Practices of Advertising	C	3		
ENGL 204 or 211	English Elective	D	3		
	Total Credits		15		

JUNIOR FALL SEMESTER					
Course	Course Name	GRADE NEEDED TO PASS	CR	SEM	GRADE
GLOB-395	Global Societies*	C	3		
ART	Art Elective 1 (108, 207 or 208)	C	3		
MCOM	Mass Comm Elective 2	C	3		
	Foreign Language I	D	3		
	Open Elective	D	3		
	Total Credits		15		

SENIOR FALL SEMESTER					
Course	Course Name	GRADE NEEDED TO PASS	CR	SEM	GRADE
MCOM-353	Public Opinion & Propaganda*	C	3		
MCOM-460	Sr. Capstone* or Open Elective	C	3		
MCOM	Mass Comm Elective 3	C	3		
ART	Art Elective 2 (108, 207 or 208)	C	3		

FRESHMAN SPRING SEMESTER					
Course	Course Name	GRADE NEEDED TO PASS	CR	SEM	GRADE
ENGL-102	English Composition II*	C	3		
MVSC-101	Lifetime Fitness and Wellness*	C	2		
MCOM-101	Writing in the Major* (formerly Comm Writing)	C	3		
MCOM-192	University Seminar II*	C	1		
	Natural Science Req. II	D	3		
	Arts Humanities Elective	D	3		
	Total Credits		15		

SOPHOMORE SPRING SEMESTER					
Course	Course Name	GRADE NEEDED TO PASS	CR	SEM	GRADE
ENGL-	Literature World / African-Am Lit 1l (202 or 206)***	D	3		
HIST-	History (101, 102, 201-205)***	D	3		
	Social Science Elective	D	3		
MCOM	Mass Comm Elective 1	C	3		
	Open Elective	D	3		
	Total Credits		15		

JUNIOR SPRING SEMESTER					
Course	Course Name	GRADE NEEDED TO PASS	CR	SEM	GRADE
MCOM-334	Media Research Techniques*	C	3		
MCOM-352	PR Mgmt. & Campaigns*	C	3		
MCOM-450	Internship*	C	3		
	Foreign Language II	D	3		
MCOM-351	Social Media and Analytics (formerly PR and the Net)	C	3		
	Total Credits		15		

SENIOR SPRING SEMESTER					
Course	Course Name	GRADE NEEDED TO PASS	CR	SEM	GRADE
MCOM-407	Media Law and Ethics*	C	3		
MCOM-460	Senior Capstone* or Open Elective	C	3		
	Open Elective	D	3		
	Open Elective	D	3		

Open Elective	D	3				Open Elective	D	2		
Total Credits		15				Total Credits		14		

<b>CREDITS REQUIRED FOR GRADUATION</b>									<b>120</b>
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**Approved Mass Comm Electives**

- MCOM 220 - Sports Broadcasting
- MCOM 336 - Digital Content Creation (formerly Online Journalism)
- MCOM 217 - Intro to Media Technology
- MCOM 209 - Organizational Communication
- MCOM 223 - Sound I
- MCOM 440 - Media Management
- MCOM 307 - Cinema and Society

NAME \_\_\_\_\_

D# \_\_\_\_\_

**Approved Art Electives**

- ART 108 - Survey of Macintosh Studio
- ART 207 - Computer Graphics
- ART 208 - Computer Imaging

**Approved English Electives**

- ENGL 204 - Linguistics
- ENGL 211 - Creative Writing

\* **General education required core courses, Mass Communications core and concentrations courses and Mass Communications electives require a "C" or better or course must be retaken.**

\*\* **One of these courses (Literature or History) MUST be in the African American Experience.**

**Student are now required to take three (3) Mass Comm Electives outside of their concentration and two (2) Art Electives**

**The remainder of the open electives (those without an asterisks) must be taken OUTSIDE the department**

**Across-the-curriculum codes, all MCOM courses**

<b>A-t-C Outcome</b>	<b>Courses</b>
Reading/Speaking/Listening (R/S/L)	MCOM208, MCOM261, MCOM215
Self-Evaluation (SE)	MCOM208, MCOM425
Wellness (W)	MCOM220,
Information Literacy (IL)	MCOM217, MCOM334
Computer Competency (CC)	MCOM334
Writing in Major - Outside the Capstone (WIM)	MCOM206, MCOM261, MCOM409
Quantitative Reasoning (QR)	MCOM334
Global Issues (GI)	MCOM208, MCOM407

**MASS COMMUNICATIONS**  
**Convergence Journalism 2017**

FRESHMAN FALL SEMESTER					
Course	Course Name	GRADE NEEDED TO PASS	CR	SEM	GRADE
ENGL-101	English Composition I*	C	3		
MTSC-101 or higher	MTSC ____	D	3		
MCOM-191	University Seminar I*	C	1		
MCOM-208	Foundations of Mass Comm* (formerly Intro)	C	3		
MCOM-241	Multi-Platform Reporting & Writing* (formerly Reporting and Writing I)	C	3		
	Nat. Science Requirement I	D	3		
	Total Credits		16		

SOPHOMORE SPRING SEMESTER					
Course	Course Name	GRADE NEEDED TO PASS	CR	SEM	GRADE
ENGL-	Literature World / African-Am Lit 1 (201 or 205)***	D	3		
	Foreign Language I	D	3		
MCOM-336	Digital Content Creation* (Formerly Online Journalism)	C	3		
	Natural Science Require. II	D	3		
MCOM-342	Feature Writing*	C	3		
	Total Credits		15		

JUNIOR FALL SEMESTER					
Course	COURSE NAME	GRADE NEEDED TO PASS	CR	SEM	GRADE
GLOB-395	Global Societies*	C	3		
MCOM	Mass Comm Elective 1	C	3		
MCOM	Mass Comm Elective 2	C	3		
MCOM 344	Independent Study	C	3		
MCOM-407	Media Law and Ethics*	C	3		
	Total Credits		15		

SENIOR FALL SEMESTER					
Course	Course Name	GRADE NEEDED TO PASS	CR	SEM	GRADE
ART	Art Elective 2 (108, 207 or 208)	C	3		
MCOM-460	Senior Capstone* or Open Elective	C	3		
ENGL __ 204 or 211	English Elective	D	3		
MCOM-	Visual Communication*	C	3		

FRESHMAN SPRING SEMESTER					
Course	Course Name	GRADE NEEDED TO PASS	CR	SEM	GRADE
ENGL-102*	English Composition II*	C	3		
MVSC-101	Lifetime Fitness and Wellness*	C	2		
MCOM-101	Writing in the Major* (formerly Comm Writing)	C	3		
MCOM-192	University Seminar II*	C	1		
ENGL-200	Speech*	C	3		
	Arts/Humanities Elective	D	3		
	Total Credits		15		

SOPHOMORE SPRING SEMESTER					
Course	Course Name	GRADE NEEDED TO PASS	CR	SEM	GRADE
ENGL-	World / African-Am Lit 1 (202 or 206)***	D	3		
HIST-	History (101, 102, 201-205)***	D	3		
	Foreign Language II	D	3		
	Social Science Elective	D	3		
MCOM 348	Converged Media Lab* NEW REQUIRED	C	3		
	Total Credits		15		

JUNIOR SPRING SEMESTER					
Course	Course Name	GRADE NEEDED TO PASS	CR	SEM	GRADE
ART	Art Elective 1 (108, 207 or 208)	C	3		
MCOM-450	Internship*	C	3		
MCOM	Mass Comm Elective 3	C	3		
MCOM-408	Technical & Business Writing*	C	3		
MCOM-334	Media Research Techniques* (formerly Tech. & Scientific Writing)	C	3		
	Total Credits		15		

SENIOR SPRING SEMESTER					
Course	Course Name	GRADE NEEDED TO PASS	CR	SEM	GRADE
	Open Elective	D	3		
MCOM- 460	Senior Capstone* or Open Elective	C	3		
	Open Elective**	D	3		
	Open Elective	D	3		

405	(formerly Tech of Layout & Design)										
	Open Elective**	D	3				Open Elective	D	2		
	Total Credits		15				Total Credits		14		

<b>CREDITS REQUIRED FOR GRADUATION</b>									<b>120</b>
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**Approved Mass Comm Electives**

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- MCOM 217 - Intro to Media Technology
- MCOM 209 - Organizational Communication
- MCOM 251 - PR Writing
- MCOM 218 - Fundamentals of Public Relations  
(formerly Pub Rel. Prin. & Practices)
- MCOM 440 - Media Management
- MCOM 307 - Cinema and Society
- MCOM 223 - Sound I

NAME \_\_\_\_\_  
D# \_\_\_\_\_

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- ART 108 - Survey of Macintosh Studio
- ART 207 - Computer Graphics
- ART 208 - Computer Imaging

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- ENGL 204 - Linguistics
- ENGL 211 - Creative Writing

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Self-Evaluation (SE)	MCOM208, MCOM425
Wellness (W)	MCOM220,
Information Literacy (IL)	MCOM217, MCOM334
Computer Competency (CC)	MCOM334
Writing in Major - Outside the Capstone (WIM)	MCOM206, MCOM261, MCOM409
Quantitative Reasoning (QR)	MCOM334
Global Issues (GI)	MCOM208, MCOM407

## **MASS COMMUNICATIONS (MCOM)**

### **MCOM-101. WRITING IN THE MAJOR**

**3:3:0**

This course will introduce students to the different types of writing in the three (3) concentration areas, as well as refreshing basic grammar and construction techniques  
Credit, three hours.

### **MCOM-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.

### **MCOM-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.

### **MCOM-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.

### **MCOM-216. MULTI-CAMERA DIGITAL PRODUCTION**

**3:3:0**

Developing technical and conceptual skills to communicate through television and digital mediums. Basic news and talk show production, familiarity with equipment and understanding of the studio process. Prerequisites: MCOM 217  
Credit, three hours.

### **MCOM-217. INTRODUCTION TO MULTI MEDIA**

**3:3:0**

Introduction to basic multimedia production, with emphasis on radio and web-based audio/visual production.  
Credit, three hours.

### **MCOM-218. FUNDAMENTALS OF PUBLIC RELATIONS**

**3:3:0**

Principles, theory, history, ethics, and practice of public relations in a variety of organizational settings; elements of strategic management.  
Credit, three hours.

### **MCOM-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: None  
Credit, three hours.

**MCOM-223. DIGITAL AUDIO PRODUCTION I****3:3:0**

This course introduces students to the basic theories and techniques of digital audio production and examines the principles of sound and acoustics and basic audio capture techniques. Prerequisites: MCOM 217  
Credit, three hours.

**MCOM-241. MULTIPLATFORM REPORTING AND WRITING****3:3:0**

Almost all journalism job descriptions these days require some level of multimedia experience. This class will focus on ways to merge the traditional methods of storytelling and present them on the web. In this class writing intensive course, students will develop their online writing skills while learning how to create packages and tell stories with audio and video as well as write strong web headlines. The business and ethical implications of publishing online will also be covered.  
Credit, three hours.

**MCOM-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: MCOM-218.  
Credit, three hours.

**MCOM-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.

**MCOM-300. CREATIVE ADVERTISING TECHNIQUES****3:3:0**

Production of creative advertising, and effective selling messages and “big ideas” through traditional and new media to reach the appropriate target profile in the marketplace. Emphasizes the creative process (copywriting and design layout). Integrates the creative elements of advertising into a comprehensive advertising campaign project with advertising deliverables.  
Prerequisites: MCOM 280  
Credit, three hours.

**MCOM-307. CINEMA AND SOCIETY****3:3:0**

The study of the cultural impact of the film industry as an institution of mass communication. Emphasis on the interrelationship among social, economic and technological factors influencing the creation and consumption of motion pictures. Consideration of particular films as indicators of cultural change.

**MCOM-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: MCOM-371 or MCOM-409.  
Credit, three hours.

**MCOM-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. Students should use this course to begin framing the research portion of the capstone paper.

Prerequisites: Junior or Senior status

Credit, three hours.

**MCOM-336. DIGITAL CONTENT CREATION****3:3:0**

Students will gain the technical skills necessary for the delivery of digital content and storytelling in online platforms, such as basic web production, using digital images, and creating audio podcasts. Students will learn what makes for good web presentations and will be introduced to tools to help them with editing photos, video and audio. Students will be required to create a digital portfolio using a variety of web tools and online platforms.

Credit, three hours.

**MCOM-342. FEATURE WRITING****3:3:0**

Students will learn how to do the type of research necessary to produce a magazine article, and work to improve writing and analytical skills. The course will require extensive field work and interviewing and photography. Weekly writing and reporting assignments for the Mass Communications Message the department's online magazine will be assigned.

Prerequisites: MCOM 24

Credit, three hours.

**MCOM-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.

**MCOM-351. SOCIAL MEDIA AND ANALYTICS****3:3:0**

For many organizations, social media has become a primary channel to engage, listen to, and communicate with a variety of stakeholders. Through a combination of case study analysis, online lectures, and project work, students will develop expertise in social media planning, campaign management, and analysis to craft an authentic and effective "voice" for their organizations and communities.

Credit, three hours.

**MCOM-352. INTEGRATED COMMUNICATIONS CAMPAIGNS****3:3:0**

This course covers the concept of media mix; matching product, consumer, and media profiles; and the conception, research, planning, and execution of advertising campaigns. Special emphasis on integrated marketing, advanced copywriting, layout, and production for print and broadcast media. Students will participate in major national contests or work with community organizations or small businesses to develop and implement a semester-long campaign for a chosen client. MSCM 251, MCOM 351.

Credit, three hours.

**MCOM-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: MCOM-251.

Credit, three hours.

**MCOM-361. DIGITAL AUDIO PRODUCTION II****3:3:0**

Students will engage in audio post production, editing and mixing. The equipment for recording as well as production and editing audio will be analyzed and employed. Sound quality and final output issues will be addressed.

Prerequisites: MCOM 223.

Credit, three hours.

**MCOM-371. DIGITAL VIDEO PRODUCTION****3:3:0**

Field production and editing. Students will work on PSAs, Five minute, long-format pieces, news package, mini documentary.

Prerequisites: MCOM 216.

Credit, three hours.

**MCOM-373. TELEVISION NEWS PRODUCTION****3:3:0**

Design and production of advanced multimedia projects. Departmental approval.

Prerequisites: MCOM 371.

Credit, three hours.

**MCOM-405. VISUAL COMMUNICATION****3:3:0**

Solutions for complex communication problems in print, video, and web media. The project-based course will require creative brainstorming, teamwork, project management, and analysis and criticism in addition to production and distribution of products using industry standard software including but not limited to Adobe suites and smart technology.

Prerequisites: MCOM 241.

Credit, three hours.

**MCOM-407. MEDIA LAW AND ETHICS****3:3:0**

The course examines the legal and ethical principles and standards governing print and electronic 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.

**MCOM-408. TECHNICAL AND BUSINESS WRITING****3:3:0**

This course is designed to help students develop skills that will enable them to produce clear and effective business and technical documents. The course focuses on basic principles of good writing-which business and technical writing shares with other forms of writing-and on types of documents common in the field. While the emphasis will be on writing, oral communication of information will form an important component of the course.

Prerequisites: ENGL-101, ENGL-102, or consent of the Department.

Credit, three hours.

**MCOM-430. DIGITAL AUDIO DOCUMENTARY PRODUCTION****3:3:0**

Whether we tell a story from a personal perspective or as a detached narrator, our presence invariably influences the story and the story-telling. In this class, students will experiment with different forms of audio narratives to encourage self-awareness and reflection of themselves in relation to "the other" to discover narrative techniques that are probing, empathetic and unexpected.

Prerequisites: MCOM 361.

Credit, three hours.

**MCOM-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.

**MCOM-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.

**MCOM-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: MCOM-334, Senior status, and consent of the Department Chair.

Credit, three hours.

## **VISUAL ART OVERVIEW**

### **Bachelor of Arts Degree Concentrations in Art**

The Department offers career tracks in Studio Art, New Media in the Arts and 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.

### **Studio Art (053) & New Media (054) 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.

### **New Media in Arts (054) Concentration**

The New Media Arts program will offer undergraduate-level study leading to a Bachelor of Arts degree. Students will have the ability to combine traditional mediums such as drawing, design, sculpture, painting and photography (still and motion) in order to create various forms of new media artwork. With the use of new media technology students will have the ability to create dynamic works of art that allow for the creative exploration of sound, video, interactive media and web-based platforms. At the end of the program, students will have the ability to create performances, exhibitions, client-driven applications, and public space projects. The goal of the New Media Arts program is to prepare each student for the challenges that will define their careers as artist and visual communicators. We want to train our students to become multi-faceted professionals.

In the New Media Arts Program students work primarily through practice, building experiences that utilize new and old technologies and narratives. Through the construction of projects in various media, they acquire technical skills, practice vocabularies of critique and analysis, and gain familiarity with historical and contemporary precedents.

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 Art 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.

**STUDIO ART**  
**Effective Fall 2017**

Freshman Fall Semester					Freshman Spring Semester				
Course	Course Name	Sem	Cr	Gr	Course	Course Name	Sem	Cr	Gr
<b>ART103</b>	<b>Intro to Drawing (f)</b>		3		<b>ART108</b>	<b>Surv of MacIntosh (v)</b>		3	
<b>ART191</b>	<b>Univ. Seminar I (f)</b>		1		<b>ART104</b>	<b>2 D-Design (so)</b>		3	
ENGL101	English Comp I		3		<b>ART192</b>	<b>Univ. Sem II (so)</b>		1	
MTSC100 or higher	Math _____		3		ENGL102	English Comp II		3	
SPSC100	Lifetime Fitness		2		___ - ___	Soc. Sci. Elec.		3	
___ - ___	<b>Human. Elect</b>		3		___ - ___	Elective		3	
	Total Credits		1 5			Total Credits		16	
Sophomore Fall Semester					Sophomore Spring Semester				
Course	Course Name	Sem	Cr	Gr	Course	Course Name	Sem	Cr	Gr
<b>ART205</b>	<b>Intermediate Drawing (f)</b>		3		<b>ART304</b>	<b>Intro to Painting (I) (s)</b>		3	
<b>ART206</b>	<b>3-D Design (f)</b>		3		<b>ART301</b>	<b>Sculpture I (s)</b>		3	
<b>ART207 or 208</b>	<b>Computer Graphics (v)</b>		3		<b>ART229</b>	<b>Arts Mang. Sem. *Quant. Reasoning</b>		3	
___ - ___	Natural Sci Elective		4		ENGL 200	Speech		3	
ENGL 201,2 or 205,6	World Lit I,II or Afro-Amer Lit I,II		3		HIST __	History elective		3	
						101,or2, 201>05			
			1 6					15	
Junior Fall Semester					Junior Spring Semester				
Course	Course Name	Sem	Cr	Gr	Course	Course Name	Sem	Cr	Gr
<b>ART308</b>	<b>Life Drawing (f)</b>		3		<b>ART307</b>	<b>Watercolor Painting (II) (s)</b>		3	
<b>ART302</b>	<b>Ceramics (f)</b>		3		<b>ART318</b>	<b>Art History II (s)</b>		3	
<b>ART317</b>	<b>Art History I (f)</b>		3		<b>ART325</b>	<b>Photography (s)</b>		3	
GLOB395	Global Societies		3		<b>ART333</b>	<b>Printmaking (s)</b>		3	
<b>ART-329</b>	<b>Gallery Internship</b>		3		___ - ___	Elective		3	
	Total Credits		1 5			Total Credits		15	
Senior Fall Semester					Senior Spring Semester				
Course	Course Name	Sem	Cr	Gr	Course	Course Name	Sem	Cr	Gr
<b>ART315 or 316</b>	<b>African Am. Art or Modern Art History (v)</b>		3		<b>ART450</b>	<b>Senior Exp Art (Capstone Exper.) (v)</b>		9	
<b>ART408</b>	<b>Adv. Studio (f)</b>		3		<b>ART-__</b>	<b>Elective or Adv Comp Graphics (v)</b>		3	
<b>ART-350</b>	<b>Web Design/Bus.</b>		3		___ - ___	Elective		3	
<b>ART-495</b>	<b>Cooperative Ed.</b>		3						

<b>ART-463</b>	<b>Selected Topics in Art Theory</b>		3					
		Total Credits	1 5			Total Credits	15	

**Total Credits < 122 >**

**\*\* Senior Capstone**

**\*Writing Intensive**

**SO – Spring Only**

**FO – Fall Only**

**V - Variable**

<b>Across-the-Curriculum (A-t-C) Outcomes List</b>		
<b>Department</b>	Art	
<b>Program/Major</b>	Studio Art	
<b>Concentration (if applicable)</b>	Studio Art	
<b>Effective Date</b>	Fall 2017	
<b>A-t-C Outcome</b>	<b>Course(s)</b>	<b>Course Name(s)</b>
<b>Reading</b>	ART 101, 315, 316, 317, 318	Intro to Art, African Amn. Art, Modern Art, Art History I&II
<b>Writing Intensive or Writing in Major (outside capstone)</b>	ART 103, 205, 304, 307, 308, 333, 408	Intro to Drawing, Inter. Drawing, Intro to Painting, Life Drawing, Printmaking, advance studio
<b>Speaking – Oral Communication – Presentation</b>	ART 103, 104, 205, 206, 307, 333, 408	Intro to Drawing, 2Ddesign, Inter. Drawing, 3Ddesign, Graphic Design, Printmaking
<b>Speaking – Oral Communication – Discussion</b>	ART 103, 104, 108, 206, 208, 301, 302, 325, 333, 408	Intro. to Drawing, 2Ddesign, Surv of MacIntosh, 3Ddesign, Computer Graphics, Photography, Printmaking
<b>Listening</b>	ART 108, 208, 333	Surv of MacIntosh, Computer Graphics, Printmaking
<b>Computer Competency</b>	ART 108,208,315, 316, 317, 318, 325, 333, 445	Surv of MacIntosh, Graph Design Computer Graphics, Afn. Amn Art or Modern Art, Art Hist I&II, Photography, Printmaking, Adv. Comp Graphic
<b>Information Literacy</b>	ART 205, 206, 304, 308, 333	Intermediate Drawing, 3Ddesign, Intro to Painting I, Life Drawing Printmaking,
<b>Critical Thinking/Problem Solving</b>	ART 103, 104, 108, 205, 206, 208, 301, 302, 304, 307, 308, 325, 333	Intro. to Drawing, 2Ddesign, Surv of Macintosh, Inter. Drawing, 3Ddesign, Computer Graphics, Intro to Painting, Photography, Printmaking,
<b>Quantitative Reasoning</b>	MTSC 103 or higher, FIN 102, ART 229	Math 103 or higher, Money Matters, Art manag. Sem.
<b>Multicultural</b> 6 credits (choose two)	ART 316, 317, 318	Modern Art, Art History I&II
<b>African-American Experience</b>	ART 316, HIST 203 or 204, ENGL 205 or 206	Afn. Amn. Art or Mod Art History, Afn. Amn. History, Afr. Amn. Literature
<b>Self-Evaluation</b>	ART 103, 104, 205, 206, 301,302, 304, 307, 308, 325, 333	Intro. to Drawing, 2D design, Inter. Drawing, 3Ddesign, Computer Graphics, Photography, Printmaking, Life Drawing
<b>Wellness</b>	ART 103,205, 302, 304, 307, 325 333, 408	Intro to Drawing, Inter. Drawing, Photography, Printmaking,
<b>Global Issues</b>	ART 104, 205, 301, 304, 315, 316, 317, 318	2Ddesign, Intermediate Drawing, Afn. Amn Art, Mod. Art, Art History I&II

**NEW MEDIA IN THE ARTS**  
**Effective Fall 2017**

Freshman Fall Semester					Freshman Spring Semester				
Course	Course Name	Sem	Cr	Gr	Course	Course Name	Sem	Cr	Gr
ART103	Intro to Drawing (f)		3		____-____	Social Science Elect.		3	
ART191	Univ. Seminar I (f)		1		ART104	2 D-Design		3	
ART108	Surv of Macintosh (v)		3		ART192	Univ. Sem II		1	
ENGL101	English Comp I		3		ENGL102	English Comp II		3	
MTSC101 or ^	Math (101 or higher)		3		ART 181	Intro to New Media Sequential Art		3	
SPSC100	Lifetime Fitness		2		____-____	Business Elective (quan. Reasoning)		3	
	Total Credits		15			Total Credits		16	
Sophomore Fall Semester					Sophomore Spring Semester				
Course	Course Name	Sem	Cr	Gr	Course	Course Name	Sem	Cr	Gr
____-____	Nat. Science Elect.		4		ART304	Intro to Painting (I) (s)		3	
ART206	3-D Design (f)		3		ART325	Photography		3	
ART 208	Computer Imaging (v)		3		ART207	Graphic Design		3	
____-____	Foreign Language		3		ENGL 200	Speech		3	
ENGL 20_	World Lit I or Afro-Amer. Lit I		3		HIST ____	HIST 101 >204		3	
					MUSC 109	Intro to Music Tech.		1	
	Total Credits		16			Total Credits		16	
Junior Fall Semester					Junior Spring Semester				
Course	Course Name	Sem	Cr	Gr	Course	Course Name	Sem	Cr	Gr
MCOM217	Intro to Media Tech		3		MCOM 307	American Cinema		3	
MCOM101	Communications Writing		3		MCOM 223	Sound Production I		3	
ART308	Life Drawing (f)		3		GLOB 395	Global Societies		3	
ART ____	Ind. Study		3		ART333	Printmaking (s)		3	
ART317	Art History I		3		ART 318	Art History II		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
____-____	Elective		3		ART450	Senior Exp. Art (Capstone Exp.) (v)		9	
ART445	Adv. Computer		3		____-____	Elective		3	

	<b>Graphics</b>							
<b>ART-350</b>	<b>Web Design/Business</b>		<b>3</b>					
<b>ART-463</b>	<b>Selected Topic in Art Theory</b>		<b>3</b>					
<b>___-___</b>	<b>Elective</b>		<b>3</b>					
	<b>Total Credits</b>		<b>15</b>			<b>Total Credits</b>	<b>12</b>	

Total Credits < 120 >

\*\* Senior Capstone

SO – Spring Only

V – Variable

B – Both Semester

\*Writing Intensive

FO – Fall Only

<b>Across-the-Curriculum (A-t-C) Outcomes List</b>		
<b>Department</b>	Art	
<b>Program/Major</b>	New Media in Arts	
<b>Concentration (if applicable)</b>	New Media	
<b>Effective Date</b>	Fall 2017	
<b>A-t-C Outcome</b>	<b>Course(s)</b>	<b>Course Name(s)</b>
<b>Reading</b>	ART 101,315,316,317,318	Intro to Art, African Amn. Art, Modern Art, Art History I&II
<b>Writing Intensive or Writing in Major (outside capstone)</b>	ART 103,205,304,307,308,333,408	Intro to Drawing, Inter. Drawing, Intro to Painting, Life Drawing, Printmaking,
<b>Speaking – Oral Communication – Presentation</b>	ART 103,104,205,206,207, 307,333,	Intro to Drawing, 2Ddesign, Inter. Drawing, 3Ddesign, Graphic Design, Printmaking
<b>Speaking – Oral Communication – Discussion</b>	ART 103,104,108,206,208,325,333	Intro. to Drawing, 2Ddesign, Surv of MacIntosh, 3Ddesign, Computer Graphics, Photography, Printmaking,
<b>Listening</b>	ART 108,208,333	Surv of MacIntosh, Computer Graphics, Printmaking
<b>Computer Competency</b>	ART 108,207, 208,315,316,317,318,325,333, 445	Surv of MacIntosh, Graph Design Computer Graphics, Afn. Amn Art or Modern Art, Art Hist I&II, Photography, Printmaking, Adv. Comp Graphic
<b>Information Literacy</b>	ART 205,206,304,308,333	Intermediate Drawing, 3Ddesign, Intro to Painting I, Life Drawing Printmaking,
<b>Critical Thinking/Problem Solving</b>	ART 103,104,108,205,206,208 308,325,333,	Intro. to Drawing, 2Ddesign, Surv of Macintosh, Inter. Drawing, 3Ddesign, Computer Graphics, Intro to Painting, Photography, Printmaking,
<b>Quantitative Reasoning</b>	MTSC 103 OR higher, FIN102, ART 229	Math 103 or higher, Money Matters, Art manag. Sem.
<b>Multicultural</b> 6 credits (choose two)	ART 316,317,318	Modern Art, Art History I&II
<b>African-American Experience</b>	ART315 or 316, HIST 203 or 204, ENGL 205 OR 206	Afn. Amn. Art or Mod Art History, Afn. Amn. History, Afr. Amn. Literature
<b>Self-Evaluation</b>	ART 103,104,205,206,308,325,333	Intro. to Drawing, 2D design,Inter. Drawing, 3Ddesign, Computer Graphics, Photography, Printmaking, Life Drawing
<b>Wellness</b>	ART 103, 302, 325,333	Intro to Drawing, Inter. Drawing, Photography, Printmaking,
<b>Global Issues</b>	ART 104,205, 315,316,317,318	2Ddesign, Intermediate Drawing, Afn. Amn Art, Mod. Art, Art History I&II

**ART EDUCATION  
Effective Fall 2017**

Freshman Fall Semester					Freshman Spring Semester				
Course	Course Name	Sem	Cr	Gr	Course	Course Name	Sem	Cr	Gr
ART103	Intro to Drawing (fo)		3		ART-108	Surv of MacIntosh (B)		3	
ART 201	*Art Educ. Theory (fo)#		3		ART104	2 D-Design (so)		3	
ART 191	Univ. Seminar I (fo) #		1		ART192	Univ. Sem II (so) #		1	
ENGL 101	English Comp I		3		ENGL102	English Comp II		3	
MTSC 100 or higher	Math Req.		3		_____	Quantitative Reasoning Elect. (director advising)		3	
EDUC204	*Phil Found of Educ.		3		PSYC201	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		ART301	Sculpture I (so)		3	
ENGL200	Speech		3		SPSC100	Lifetime Fitness		2	
_____	Natural Sci Elective		3		EDUC318	Multicult. Educ/global societies		3	
_____	Foreign Language I		3		_____	Foreign Language II		3	
ENGL201 or 205	World Lit I or Afro- Amer. Lit I		3		PSYC316	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
ART308	Life Drawing (fo)		3		ART-307	Watercolor Painting (II) (so)		3	
ART302	Ceramics (fo)		3		ART-318	Art History II (so) *		3	
ART317	Art History I (fo) *		3		ART325	Photography (so)		3	
ART341	Methods & Materials Elementary Art Teachers (fo) # (see below)*		3		ART-333	Printmaking (so)		3	
HIST34_ 2_	History		3		ART-342	Methods & Materials Secondary Art Teachers (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
ART340	Art for Special Educ.* (fo)		3		ART-410	Seminar Art Ed ** (B)		1	
ART408	Adv. Studio (fo)		3		EDUC400	Student Teach in Art (B) * ** (see below)		12	
EDUC 302	Reading Content Area (B)		3						
EDUC357	Effective Teaching (B)		4						
EDUC416	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.			

	<b>^ Student must pass Praxis II prior to student teaching</b>		<b>P/F</b>		<b>^ Student must pass Praxis II prior to student teaching</b>			
	<b>Total Credits</b>	<b>14</b>			<b>Total Credits</b>	<b>13</b>		

**Total Credits <124>  
Senior Capstone (05-410 & 12-400)**

**\*\* SO – Spring Only  
FO – Fall Only  
\* Writing Intensive  
B – Both Semester  
V – Variable**

<b>Across-the-Curriculum (A-t-C) Outcomes List</b>		
<b>Department</b>	Art	
<b>Program/Major</b>	Art Education	
<b>Concentration (if applicable)</b>	Art Education	
<b>Effective Date</b>	Fall 2017	
<b>A-t-C Outcome</b>	<b>Course(s)</b>	<b>Course Name(s)</b>
<b>Reading</b>	ART 201, 317, 318, 340, 341, 342	Art Ed Theory, Art History I, Art History II, Art for Special Education, Meth&Matis Elem Art, Meth&Matis Secondary
<b>Writing Intensive or Writing in Major (outside capstone)</b>	ART 201,317, 318, 340, 341, 342,	Art Ed Theory, Art History I, Art History II, Art for Special Education, Meth&Matis Elem Art, Meth&Matis Secondary
<b>Speaking – Oral Communication – Presentation</b>	ART 201, 317, 318, 340, 341, 342	Art Ed Theory, Art History I, Art History II, Art for Special Education, Meth&Matis Elem Art, Meth&Matis Secondary
<b>Speaking – Oral Communication – Discussion</b>	ART 104, 206, 304, 317, 318	2D Design, 3D Design, Intro to Painting, Art History I, Art History II
<b>Listening</b>	ART 201, 317, 318, 340, 341, 342	Art Ed Theory, Art History I, Art History II, Art for Special Education, Meth&Matis Elem Art, Meth&Matis Secondary
<b>Computer Competency</b>	ART 108, 317, 318, 341, 342	Survey of Mac, Art History I, Art History II, Art for Special Education, Meth&Matis Elem Art, Meth&Matis Secondary
<b>Information Literacy</b>	ART 104, 201, 317, 318, 341, 342	2D Design, Art Ed Theory, Art His I, Art History II Meth&Matis Elem Art, Meth&Matis Secondary
<b>Critical Thinking/Problem Solving</b>	ART 201, 340, 341, 342	Art Ed Theory, Art for Special Education, Meth&Matis Elem Art, Meth&Matis Secondary,
<b>Quantitative Reasoning</b>	MATH 102 FIN 102	Math 102 or higher Money Matters
<b>Multicultural</b> 6 credits (choose two)	ART 317, 318	Art History I, Art History II
<b>African-American Experience</b>	ENGL 205 or 206, HIST 203 or 204, ART 316	Afr-Amer. Lit I&II, Afrn. Amn. History, Afrn. Amn. Art History/Modern
<b>Self-Evaluation</b>	ART 104, 201, 205, 206, 301, 304, 340, 341, 342	2D Design, Art Ed Theory, Intermediate Drawing, 3D Design, Sculpture I, Intro to Paining, Art for Special Education, Meth&Matis Elem Art, Meth&Matis Secondary
<b>Wellness</b>	ART 103, 104, 205, 206, 301, 302, 304, 325, 333, 408	Intro to Drawing, 2D Design, Inter.Drawing, 3D Sculpture I, Ceramics, Intro to Painting, Photo, Print Making, Adv. Painting III
<b>Global Issues</b>	ART 317, 318, 341, 342	Art History I, Art History II, Meth&Matis Elem Art, Meth&Matis Secondary

## **Visual 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-181 Intro to New Media, Sequential Art**

This class will look at sequential art as a powerful medium for all kinds of creative storytelling and idea exploration, web-based art and design. Beginning with a focus on the basics and mechanics of panel, page and screen compositions, we'll emphasize keeping visual journals, sketchbooks, organized notes, stories and studies as the basis for generating later work. We will emphasize becoming articulate in our medium, learning all aspects of refining our work. We will cover the basic tools of visual and narrative arts, including juxtaposition of images, narrative transitions, composition, clarity, rhythm and the psychology of imagery created by hand and computer. A wide variety of sequential art will be examined and studied.

PREREQUISITES: ART 108, Intro to Mac, ART 208, Computer Imaging

**ART-350. Web Design/business**

**3:3:3**

This course is will give students a basic understanding of web design Building a site using CSS and CMS templates.

This course is designed for but not limited to students who are pursuing a degree in New Media Art. This course will allow art students to empower themselves as business creatives. In this class, you will learn how to design web based sites that will give you a place largest free marketplace in the world. This class will help you figure out how to stand out. The internet. It is open for business 24 hours a day and 7 days a week and the class will teach you how to better design for your target market and successfully create a functionally designed website. This course will cover the design aspect of websites and not the programming/coding end of building a website.

PREREQUISITES: ART 108, Intro to Mac, ART 208, Computer Imaging

**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 their effects 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).

Prerequisites: senior status only and Consent of Chair

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.

## **MUSIC OVERVIEW**

### **Degree Options:**

Bachelor of Arts in Music Education (Vocal/Choral or Instrumental Concentration)

Bachelor of Arts in Music (Vocal/Choral or Instrumental Concentration)

Bachelor of Arts in Music Industry

Music Minor

### **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 performance and/or graduate study in music.
3. Prepare students for a variety of careers in the music industry.
4. Stimulate students' development of musical understanding and appreciation by offering appropriate courses, activities, and ensembles for their participation.
5. Function as a viable service unit that meets the needs of the University and extended community.
6. Equip elementary education majors with the musical and pedagogical skills necessary to allow them to integrate music into the elementary classroom.

### **Entrance Requirements:**

In addition to the University's admission requirements, entering freshmen and transfer students must:

1. Students entering the BA in Music and BA in Music Education programs must successfully complete an audition in their principal performance area, either instrumental or vocal.
2. All entering students must complete diagnostic examinations in piano and music theory.
3. All entering students must complete a personal interview.

Applicants who do not fully meet the entrance requirements may be admitted conditionally at the discretion of the music faculty and chairperson.

<b>BACHELOR OF ARTS IN MUSIC EDUCATION</b> <b>VOCAL CONCENTRATION</b> <b>Effective: Fall 2017</b>					
<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
MUSC-191	University Seminar I – Music *	1	MUSC-192	University Seminar II – Music *	1
MTSC-107	* Mathematics and Data Analysis	3	MUED-193	Foundations of Music Education	2
MUSP-101	Chorus	1	MUSP-101	Chorus	1
MUSC-113	Music Theory & Ear Training 1	3	MUSC-114	Music Theory & Ear Training II	3
MUSC-115	Ear Training 1	2	MUSC-116	Ear Training II	2
MUSC-120	Piano Class I	2	MUSC-121	Piano Class II	2
MUSP-1XX	Applied Music (Private Lesson in Primary Performance Area)	1	MUSP-1XX	Applied Music (Private Lesson in Primary Performance Area)	1
MUSP-099	Performance Seminar	0	MUIN-109	Intro to Music Technology	1
			MUSC-099	Performance Seminar	0
	<b>* It is encouraged that all Music Education students enroll in MTSC 076 course as the course strengthens Praxis 1 test taking</b>			<b>Must TAKE Praxis I during MUED- 193: or before.</b>	0
	Total Credits	16		Total Credits	16
<b>Sophomore Fall Semester</b>			<b>Sophomore Spring Semester</b>		
Course	Course Name	Cr	Course	Course Name	Cr
MUSC-220	Piano Class III	2	MUSC-221	Piano Class IV	2
MUSC-100	Introduction to Music (Section for Music Majors Only)	3	EDUC-313	Intro to Educ. of Children w/Exceptional Learning Needs	3
EDUC-204	Philosophical Foundations of Ed	3	PSYC-201	Intro to Gen Psychology	3
MUSP-201 or One from MUSP 205208	Chorus or Large Ensemble (Can substitute any Chamber Ensemble or Popular Music Ensemble 1x's)	1	MUSP-201 or One from MUSP 205208	Chorus or Large Ensemble (Can substitute any Chamber Ensemble or Popular Music Ensemble 1x's)	1
MUSP-2XX	Applied Music (Private Lesson in Primary Performance Area)	1	MUSP-2XX	Applied Music (Private Lesson in Primary Performance Area)	1
MUSC-213	Music Theory III	3	MUSC-214	Music Theory IV	3
MUSC-215	Ear Training III	2	MUSC-216	Ear Training IV	2
MUSC-101	African-American Music (AA <i>Experience</i> )	3	MUED- 234	Vocal Techniques & Methods	1
MUSP-099	Performance Seminar	0	MUSP-099	Performance Seminar	0

	Schedule a Music Ed. Audit the semester before enrolling in Junior Level Courses.	0		Schedule a Music Ed. Audit before April 1 <sup>st</sup> . (Before enrolling in Junior Level Courses).	0
	Must Pass Praxis 1 before enrolling in Junior Level Methods Courses			Must Pass Praxis 1 before April 1 <sup>st</sup> . (Before enrolling in Junior Level Methods Courses).	
		Total Credits 18			Total Credits 16

- **Must Pass Praxis I BEFORE Junior Year**
- **Must apply to be admitted to Teacher Education Program (TEP) BEFORE/DURING Junior Year**
- **Must Pass Music Education Audit and Interview with Music Education Faculty the semester BEFORE you plan to enroll in Music Education Methods 301 and 302.**
- **Instrumentalists are encouraged to sign up for Choir at least one semester: This could replace Band Participation for the semester. Vocalists are encouraged to sign up for instrumental lessons or any band.**
- **Can Substitute any Chamber Ensemble or Popular Music Ensemble 1x's for any Large Ensemble Credit.**
- **Taking Summer General Education Courses is advised (i.e. Lifetime Fitness and Wellness, Literature, Speech, etc.**

Bachelor of Arts in Music Education Vocal Concentration 2017					
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MUSC-300	Basic Conducting	1	MUSC-310	Vocal Conducting	1
MUSC-323	Music History & Literature I *^	3	MUED-343	Choral Literature	2
MUED-301	Elementary Music Methods * (PPAT 1-2)	3	MUSC-324	Music History & Literature II *^	3
MUSP-301 or One from MUSP 305-308	Chorus or Large Ensemble (Can substitute any Chamber Ensemble or Popular Music Ensemble 1x's)	1	MUED-302	Secondary Music Methods * (PPAT 3-4)	3
MUSP-3XX	Applied Music (Private Lesson in Primary Performance Area)	1	MUSP-301 One from MUSP 305-308	Chorus or Large Ensemble (Can substitute any Chamber Ensemble or Popular Music Ensemble 1x's)	1
MUSP MUED MUIN	Elective	1	MUSP-3XX	Applied Music (Private Lesson in Primary Performance Area)	1
ENGL-200	Speech	3	MUSP MUED MUIN	Elective of an Instrumental Methods Course or a Secondary Instrument Applied (guitar, piano, woodwinds, brass, percussion)	1

PHYS-141	Natural Science Elective <i>Sound &amp; Acoustics</i>	3	EDUC-318	Multicultural Education	3
MUSP-099	Performance Seminar	0	MUSC-331	Orchestration & Arranging <i>(Includes vocal &amp; instrumental)</i>	2
	Apply to TEP Program by December (Applications in Education Office)	0	MUSP-099	Performance Seminar	0
	Must <b>Take</b> Praxis II early in semester	0		Be accepted in TEP program by February in order to student teach in Fall.	0
				Must <b>Pass</b> Praxis II by February in order to student teach in Fall	0
	Total Credits	16		Total Credits	17
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
EDUC 357	Effective Teaching & Classroom Management (10 hours a week of school observations required).	4	EDUC-400	Pre-Service Teaching**	12
EDUC 416	Analysis of Student Teaching	1			
ENGL-201, 202, 205, 206	World or African-American Lit I or II	3			
MUSP, MUED, MUSC	Music Elective	1			
MVSC-100	Lifetime Fitness and Wellness	2			
MUSP-499	Senior Recital	1		<b>No required courses permitted during student teaching</b>	
	Total Credits	12		Total Credits	12
	Must Pass Praxis II by October to Student Teach in the Spring				

\*\* - Senior Capstone

\* - Writing Intensive Course(s)

<b>Total Credits: 124</b>
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# - A "D" is allowed in these courses; all others require min. "C".

^ - Music History & Literature I & II fulfill gen ed. history requirement.

<b>Across-the-Curriculum Content for ALL Degree Programs: 1) BA in Music Education 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	Music Theory & Music History Courses; African-American Music; Music Performance.
African-American Experience	African-American Music Course
Self-evaluation	Applied Music & Ear Training Lab.
Wellness	Life-time Fitness & Wellness Course.
Information Literacy	Music History; Music Theory & African-American Music.
Computer Competency	Intro to Music Technology.
Writing in Major	Music History, Music Theory, African-American Music & University Seminar.
Quantitative Reasoning	Music Theory I – IV, Ear Training I - IV.
Multicultural	Multicultural Ed, Music History & Intro to Music Courses (world music content); African-American Music.
Global Issues	Multicultural Ed, Music History, Intro to Music & African-American Music courses.
Critical Thinking/Problem Solving	Applied Music; Ensemble Courses; Conducting Courses; Music Theory & University Seminar.

**BACHELOR OF ARTS IN MUSIC EDUCATION  
INSTRUMENTAL CONCENTRATION  
Effective Fall 2017**

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-107	Mathematics and Data Analysis	3	MUED-193	Foundations of Music Education	2
One from MUSP 105-108	Large Ensemble (Can substitute any Chamber Ensemble or Popular Music Ensemble 1x's)	1	One from MUSP 105108	Large Ensemble (Can substitute any Chamber Ensemble or Popular Music Ensemble 1x's)	1
MUSC-113	Music Theory 1	3	MUSC-114	Music Theory II	3
MUSC-115	Ear Training 1	2	MUSCI-116	Ear Training II	2
MUSC-120	Piano Class I	2	MUSC-121	Piano Class II	2
MUSP-1XX	Applied Music (Private Lesson in Primary Performance Area)	1	MUSP-1XX	Applied Music (Private Lesson in Primary Performance Area)	1
MUSP-099	Performance Seminar	0	MUIN-109	Intro to Music Technology	1
			MUSC-099	Performance Seminar	0
	<b>* It is encouraged that all Music Education students enroll in MTSC 076 course as the course strengthens Praxis 1 test taking</b>			<b>Must Take Praxis I during MUED-193 or before.</b>	0
	Total Credits	16		Total Credits	16
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MUSC-220	Piano Class III	2	MUSC-221	Piano Class IV	2
MUSC-100	Introduction to Music (Section for Music Majors Only)	3	EDUC-313	Intro to Educ. of Children w/Exceptional Learning Needs	3
EDUC-204	Philosophical Foundations of Ed	3	PSYC-201	Intro to Gen Psychology	3
One from MUSP 205-208	Large Ensemble (Can substitute any Chamber Ensemble or Popular Music Ensemble 1x's)	1	One from MUSP 205208	Large Ensemble (Can substitute any Chamber Ensemble or Popular Music Ensemble 1x's)	1
MUSP-2XX	Applied Music (Private Lesson in Primary Performance Area)	1	MUSP-2XX	Applied Music (Private Lesson in Primary Performance Area)	1
MUSC-213	Music Theory III	3	MUSC-214	Music Theory IV	3
MUSC-215	Ear Training III	2	MUSC-216	Ear Training IV	2
MUED-228, 226 or 230	Brass or Woodwinds or Strings Techniques & Methods	1	MUED- 232 or 234	Percussion or Vocal Techniques & Methods	1
MUSP-099	Performance Seminar	0	MUSP-099	Performance Seminar	0
	Schedule a Music Ed. Audit the semester before enrolling in Junior Level Courses.	0		Schedule a Music Ed. Audit before April 1 <sup>st</sup> . (Before enrolling in Junior Level Courses).	0
	Must <b>Pass</b> Praxis 1 before enrolling in Junior Level Methods Courses			Must <b>Pass</b> Praxis 1 before April 1 <sup>st</sup> . (Before enrolling in Junior Level Methods Courses).	
	Total Credits	16		Total Credits	16

- **Must Pass Praxis I BEFORE Junior Year**
- **Must apply to be admitted to Teacher Education Program (TEP) BEFORE/DURING Junior Year**
- **Must Pass Music Education Audit and Interview with Music Education Faculty the semester BEFORE you plan to enroll in Music Education Methods 301 and 302.**
- **Instrumentalists are encouraged to sign up for Choir at least one semester: This could replace Band Participation for the semester.**
- **Can Substitute any Chamber Ensemble or Popular Music Ensemble 1x's for any Large Ensemble Credit.**
- **Must Take Brass, Woodwinds, Strings, Percussion and Vocal Techniques & Methods**
- **Taking Summer General Education Courses is advised (i.e. Lifetime Fitness and Wellness, Literature, Speech etc.)**

<b>Bachelor Of Arts In Music Education Instrumental Concentration</b>					
<b>Junior Fall Semester</b>			<b>Junior Spring Semester</b>		
Course	Course Name	Cr	Course	Course Name	Cr
MUSC-300	Basic Conducting	1	MUSC-310	Instrumental Conducting	1
MUED-228, 226 or 230	Brass or Woodwinds or String Techniques & Methods	1	MUED 232 or 234	Percussion or Vocal Techniques & Methods	1
MUSC-323	Music History & Literature I *^	3	MUSC-324	Music History & Literature II *^	3
MUED-301	Elementary Music Methods * (PPAT 1-2)	3	MUED-302	Secondary Music Methods * (PPAT 3-4)	3
One from MUSP 305-308	Large Ensemble (Can substitute any Chamber Ensemble or Popular Music Ensemble 1x's)	1	One from MUSP 305-308	Large Ensemble (Can substitute any Chamber Ensemble or Popular Music Ensemble 1x's)	1
MUSP-3XX	Applied Music (Private Lesson in Primary Performance Area)	1	MUSP-3XX	Applied Music (Private Lesson in Primary Performance Area)	1
ENGL-200	Speech	3	EDUC-318	Multicultural Education	3
MUSC-101	African-American Music (AA Experience)	3	MUSC, MUED, MUIN	Music Elective	1
MVSC-100	Lifetime Fitness & Wellness	2	MUSC-331	Orchestration & Arranging (Includes vocal & instrumental)	2
MUSP-099	Performance Seminar	0	MUSP-099	Performance Seminar	0
	Apply to TEP Program by December (Applications in Education Office)			Be accepted in TEP program by February in order to student teach in Fall.	
	Must <b>Take</b> Praxis II early in semester			Must <b>Pass</b> Praxis II by February in order to student teach in Fall	
	Total Credits	18		Total Credits	16
<b>Senior Fall Semester</b>			<b>Senior Spring Semester</b>		
Course	Course Name	Cr	Course	Course Name	Cr
MUED-228, 226 or 230	Brass or Woodwinds or String Techniques & Methods	1	EDUC-400	Pre-Service Teaching**	12

MUSC, MUED, MUIN	Music Elective	1			
EDUC 357	Effective Teaching & Classroom Management (10 hours a week of school observations required).	4			
EDUC 416	Analysis of Student Teaching	1			
PHYS-141	Natural Science Elective <i>Sound &amp; Acoustics</i>	3			
ENGL-201, 202, 205, 206	World or African-American Lit I or II	3		<b>No required courses permitted during student teaching</b>	
MUSP 499	Senior Recital	1		Total Credits	12
	Total Credits	14			
	Must <b>Pass</b> Praxis II by October to Student Teach in the Spring				

\*\* - 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.

<b>Total Credits: 124</b>
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<b>Across-the-Curriculum Content for ALL Degree Programs: 1) BA in Music Education 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	Music Theory & Music History Courses; African-American Music; Music Performance.
African-American Experience	African-American Music Course
Self-evaluation	Applied Music & Ear Training Lab.
Wellness	Life-time Fitness & Wellness Course.
Information Literacy	Music History; Music Theory & African-American Music.
Computer Competency	Intro to Music Technology.
Writing in Major	Music History, Music Theory, African-American Music & University Seminar.
Quantitative Reasoning	Music Theory I – IV, Ear Training I - IV.
Multicultural	Multicultural Ed, Music History & Intro to Music Courses (world music content); African-American Music.
Global Issues	Multicultural Ed, Music History, Intro to Music & African-American Music courses.
Critical Thinking/Problem Solving	Applied Music; Ensemble Courses; Conducting Courses; Music Theory & University Seminar.



Bachelor of Arts in Music, Vocal/Choral Concentration					
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MUSE-300	Basic Conducting	1	MUSE-309	Vocal Conducting	1
MUSC-323	Music History & Literature I*	3	MUSC-324	Music History & Literature II*	3
MUSP-101	University Chorus	1	MUSP-101	University Chorus	1
MUSP-334	Applied Voice V	1	MUSP-334	Applied Voice VI	1
XX-XXX #	Social Science Elective#	3	XXXXXXX	Foreign Language Elective	3
MUSP-1XX	Minor Applied Music Elective (Piano Recommended)	1	MUSP-1XX	Minor Applied Music Elective (Piano Recommended)	1
MUSP-102	Opera Workshop	1	MUSP-102	Opera Workshop	1
XXXXXXX	Foreign Language Elective	3	MUED-234	Vocal Techniques & Methods	1
MUSP-099	Performance Seminar	0	MUSP-390	Junior Recital	1
		Total Credits	14		
				Total Credits	13

Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
GLOB-395	Global Societies	3	XX-XXX	Natural Science Elective # <i>Recommended: PHYS-141 Sound &amp; Acoustics</i>	3
ENGL-201, 202, 205, or 206	World or African-Amer Lit I or II#	3	MUSCXXX	Music Elective	3
MUSC-326	Vocal Literature	2	MUED-343	Choral Literature	2
MUSC-318	Form & Analysis	3	MUSC-331	Orchestration and Arranging	2
MUSP-101	University Chorus	1	MUSP-101	University Chorus	1
MUSP-434	Applied Voice VII	1	MUSP-499	Senior Capstone**	2
MUSP-099	Performance Seminar	0	MUSP-490	Senior Recital**	1
		Total Credits	13		
				Total Credits	14

\*\* - Senior Capstone

\* - Writing Intensive Course(s)

# - A "D" is allowed in these courses; all others require min. "C".

60% Music Content; 40% Non-Music Content

<b>Total Credits: 120</b>
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**Across-the-Curriculum Content for ALL Degree Programs:****1) BA in Music Education 2) BA in Music 3) BA in Music Industry**

<b>Across-the Curriculum Content</b>	<b>Covered in these Courses/Activities (reflected in syllabi &amp; department activities).</b>
Reading/Speaking/ Listening	Music Theory & Music History Courses; African-American Music; Music Performance.
African-American Experience	African-American Music Course.
Self-evaluation	Applied Music & Ear Training Lab.
Wellness	Life-time Fitness & Wellness Course.
Information Literacy	Music History; Music Theory & African-American Music.
Computer Competency	Intro to Music Technology.
Writing in Major	Music History, Music Theory, African-American Music & University Seminar.
Quantitative Reasoning	Music Theory I – IV, Ear Training I - IV.
Multicultural	Multicultural Ed, Music History & Intro to Music Courses (world music content); African-American Music.
Global Issues	Multicultural Ed, Music History, Intro to Music & African-American Music courses.
Critical Thinking/Problem Solving	Applied Music; Ensemble Courses; Conducting Courses; Music Theory & University Seminar.

**BACHELOR OF ARTS IN MUSIC  
INSTRUMENTAL CONCENTRATION  
Effective Fall 2017**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MUSC-120	Piano Class I	2	MUSC-121	Piano Class II	2
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
One from MUSP 105 - 108	Large Ensemble	1	One from MUSP 105 - 108	Large Ensemble	1
MUSC-113	Music Theory I	3	MUSC-114	Music Theory II	3
MUSC-115	Ear Training I	2	MUSC-116	Ear Training II	2
MUSP-1XX	Applied Music (Private Lesson in Primary Performance Area)	1	MUSP-1XX	Applied Music (Private Lesson in Primary Performance Area)	1
MTSC-107	* Mathematics and Data Analysis	3	MUIN-109	Introduction to Music Technology	1
MUSP-099	Performance Seminar	0	MUSP-099	Performance Seminar	0
	Total Credits	16		Total Credits	14

Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MUSC-220	Piano Class III	2	MUSC-221	Piano Class IV	2
MUSC-100	Introduction to Music (Section for Music Majors Only)	3	XXXX-XXX	Natural Science Elective # <i>Recommended: PHYS-141 Sound &amp; Acoustics</i>	3
One from MUSP 105 - 108	Large Ensemble	1	One from MUSP 105 - 108	Large Ensemble	1
MUSP-1XX	Applied Music (Private Lesson in Primary Performance Area)	1	MUSP-1XX	Applied Music (Private Lesson in Primary Performance Area)	1
MUSC-213	Music Theory III	3	MUSC-214	Music Theory IV	3
MUSC-215	Ear Training III	2	MUSC-216	Ear Training IV	2
One from MUSP 114 - MUSP 128	Small Ensemble Elective	1	One from MUSP 114 - MUSP 128	Small Ensemble Elective	1
MUIN-111	Overview of the Music Industry	3	ENGL-200	Speech	3
MUSP-099	Performance Seminar	0	MUSP-099	Performance Seminar	0
	Total Credits	16		Total Credits	16

<b>Bachelor of Arts in Music, Instrumental Concentration</b>					
<b>Junior Fall Semester</b>			<b>Junior Spring Semester</b>		
Course	Course Name	Cr	Course	Course Name	Cr
MUSC-300	Basic Conducting	1	MUSC-310	Instrumental Conducting	1
MUXX-XXX	Music Elective	3	XX-XXX #	Social Science Elective #	3
One from MUSP 105-108	Large Ensemble	1	One from MUSP 105-108	Large Ensemble	1
GLOB-395	Global Societies	3	MUSP-390	Junior Recital	1
MUSC -101	African-American Music (A-A-Exper.)	3	One of MUED 226, 228, 230, 232	Woodwind, Brass, String or Percussion Techniques (class in primary performance area)	1
MUSP-1XX	Minor Applied Music Elective		MUSP-1XX	Minor Applied Music Elective	1
MUSP-099	Performance Seminar	0	MUSC-331	Orchestration & Arranging	2
			MUSP-099	Performance Seminar	0
	Total Credits	16		Total Credits	16
<b>Senior Fall Semester</b>			<b>Senior Spring Semester</b>		
Course	Course Name	Cr	Course	Course Name	Cr
MVSC-100	Lifetime Fitness & Wellness	2	MUIN-251	Music Marketing And Promotion	3
ENGL-201, 202, 205, 206	World or African-American Literature I or II#	3	MUSCXXX	Music Elective	3
One from MUSP 114 - MUSP 128	Small Ensemble Elective	1	HIST-XXX	History Elective#	3
MUSC-201	Jazz Improvisation	2	One from MUSP 114 - MUSP 128	Small Ensemble Elective	1
One from MUSP 105 - 108	Large Ensemble	1	One from MUSP 105 - 108	Large Ensemble	1
MUSP-3XX	Applied Music (Private Lesson in Primary Performance Area)	1	MUSP-490	Senior Recital	1
MUSC-318	Form and Analysis	3	MUSP-499	Senior Capstone	2
MUSC-XXX	Music Elective	1			
	Total Credits	14		Total Credits	14

\* - Writing Intensive Course(s)

# - A "D" is allowed in these courses; all others require min. "C".

<b>Total Credits: 120</b>
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**Across-the-Curriculum Content for ALL Degree Programs:  
1) BA in Music Education 2) BA in Music 3) BA in Music Industry**

<b>Across-the Curriculum Content</b>	<b>Covered in these Courses/Activities (reflected in syllabi &amp; department activities).</b>
Reading/Speaking/ Listening	Music Theory & Music History Courses; African-American Music; Music Performance.
African-American Experience	African-American Music Course.
Self-evaluation	Applied Music & Ear Training Lab.
Wellness	Life-time Fitness & Wellness Course.
Information Literacy	Music History; Music Theory & African-American Music.
Computer Competency	Intro to Music Technology.
Writing in Major	Music History, Music Theory, African-American Music & University Seminar.
Quantitative Reasoning	Music Theory I – IV, Ear Training I - IV.
Multicultural	Multicultural Ed, Music History & Intro to Music Courses (world music content); African-American Music.
Global Issues	Multicultural Ed, Music History, Intro to Music & African-American Music courses.
Critical Thinking/Problem Solving	Applied Music; Ensemble Courses; Conducting Courses; Music Theory & University Seminar.

**BACHELOR OF ARTS IN MUSIC INDUSTRY**  
**Effective Fall 2017**

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
MUIN-111	Overview of the Music Industry	3	MTSC-107	Mathematics and Data Analysis	3
MUSP-128	Popular Music Ensemble	1	MUSP-128	Popular Music Ensemble	1
MUSC-113	Music Theory I	3	MUSC-114	Music Theory II	3
			MUSC-116	Ear Training II	2
MUSC-115	Ear Training I	2	MUSC-121	Piano Class II	2
MUSC-120	Piano Class I	2	MUIN-109	Intro to Music Technology	1
MUSP-099	Performance Seminar	0	MUSP-099	Performance Seminar	0
Total Credits		15	Total Credits		16
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ECON-201	Macro-Economics	3	ECON-202	Micro-Economics	3
MUSP-128	Popular Music Ensemble	1	MUSP-128	Popular Music Ensemble	1
MUIN-250	Music Publishing	3	MUIN-251	Music Marketing & Promotion	3
MGMT-205	Management Processes	3	MVSC-101	Lifetime Fitness & Wellness	2
MUIN-223	Music Recording I	3	MUIN-224	Music Recording II	3
MUSC-100	Introduction to Music (Section for Music Majors Only)	3	MUSC, MUSP or MUIN	Music Elective	1
MUSC, MUSP or MUIN	Music Elective	1	MUSC, MUSP or MUIN	Music Elective	1
MUSP-099	Performance Seminar	0	MUSP-099	Performance Seminar	0
Total Credits		17	Total Credits		14

Bachelor of Arts in Music Industry					
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-200	Speech	3	MUSC, MUIN MKT-315	Music Elective or Buyer Behavior	3
MUIN-209	Songwriting	3	MUIN-338	Applied Music Industry II	1
MUIN-337	Applied Music Industry I	1	MKT-303	Selling & Sales	3

MUSC-101	African-American Music ( <i>A-A Exper.</i> )	3	MUSC-324	Music History & Literature II *	3
MUSC-323	Music History & Literature I *	3	MUIN-201	Student-Run Company Project (Music)	1
MUIN-201	Student-Run Company Project (Music)	1	MGMT-100	Intro to Business	3
MKT-300	Principles of Marketing	3	MUSP-099	Performance Seminar	0
MUSP-099	Performance Seminar	0			
		Total Credits	17		
				Total Credits	14

Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MUIN-437	Applied Music Industry III	1	MUIN-438	Applied Music Industry w/Senior Capstone Project**	3
MUIN-201	Student-Run Company Project (Music)	1	MUIN-201	Student-Run Company Project (Music)	1
MKT-407	Promotional Strategy	3	MUIN-402	Music Industry Internship	3
XX-XXX	Free Elective	3	GLOB-395	Global Societies	3
ENGL-201 or 205	Literature Elective	3	MKT-420	International Marketing	3
XX-XXX	Natural Science Elective # <i>Recommended: PHYS-141 Sound &amp; Acoustics</i>	3			
		Total Credits	14		
				Total Credits	13

\*\* Senior Capstone

\* Writing Intensive Course(s)

<b>Total Credits: 120</b>
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**Across-the-Curriculum Content for ALL Degree Programs:  
1) BA in Music Education 2) BA in Music 3) BA in Music Industry**

<b>Across-the Curriculum Content</b>	<b>Covered in these Courses/Activities (reflected in syllabi &amp; department activities).</b>
Reading/Speaking/ Listening	Music Theory & Music History Courses; African-American Music; Music Performance.
African-American Experience	African-American Music Course.
Self-evaluation	Applied Music & Ear Training Lab.
Wellness	Life-time Fitness & Wellness Course.
Information Literacy	Music History; Music Theory & African-American Music.
Computer Competency	Intro to Music Technology.
Writing in Major	Music History, Music Theory, African-American Music & University Seminar.
Quantitative Reasoning	Music Theory I – IV, Ear Training I - IV.
Multicultural	Multicultural Ed, Music History & Intro to Music Courses (world music content); African-American Music.
Global Issues	Multicultural Ed, Music History, Intro to Music & African-American Music courses.
Critical Thinking/Problem Solving	Applied Music; Ensemble Courses; Conducting Courses; Music Theory & University Seminar.

### Music Minor

Course	Course name	CR
MUSC-113	Music Theory I	3
MUSC-114	Music Theory II	3
MUSC-115	Ear Training I	2
MUSC-116	Ear Training II	2
MUSC-120	Piano Class I	2
MUSC-121	Piano Class II	2
MUSC-111	Introduction to Music History	3
One from MUSP 101-128	Ensemble Requirement	1
One from MUSP 101-128	Ensemble Requirement	1
MUSP-1XX	Applied Music (Private Lesson in Primary Performance Area)	1
MUSP-1XX	Applied Music (Private Lesson in Primary Performance Area)	1
		<b>Total Credits: 21</b>

## **MUSIC**

### **MUSC-090. MUSIC THEORY LAB**

**2:2:0**

This course provides students with foundational study in music theory and ear training to help them successfully complete the courses in the music theory sequence. This course does not carry credits toward graduation. Students will enroll in MUSC 090 concurrently with MUSC 113 and 115 unless they successfully complete the music theory placement exam. Students who fail to pass any of the courses in the music theory sequence will enroll in MUSC 090 in the following semester.

Credit, two hours not counted toward graduation.

### **MUSC-100. 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-101. 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-113. MUSIC THEORY I**

**3:3:0**

The study of music notation, major and minor scales, intervals and triads. Students will learn basic harmonic analysis including cadences, nonharmonic tones, and rules of four part writing. There is a laboratory fee.

Prerequisite: Music major or minor.

Credit, three hours.

### **MUSC-114. MUSIC THEORY II**

**3:3:0**

Continued study of harmonic analysis with an introduction to figured bass and harmonic progression. Students will learn the types of seventh chords and their inversions, and begin the study of Secondary Dominants and modulation. There is a laboratory fee.

Prerequisites: MUSC-113.

Credit, three hours.

### **MUSC-115. EAR TRAINING I**

**2:2:0**

Develop basic ear training skills through melodic, harmonic, and rhythmic dictation. Learn solfege and develop basic sight-singing skills.

Prerequisite: Music major or minor.

Credit, two hours.

### **MUSC-116. EAR TRAINING II**

**2:2:0**

The continued study of ear training skills through melodic, harmonic, and rhythmic dictation. Continued development of sight-singing skills.

Prerequisites: MUSC 113 and MUSC 115.

Credit, two hours.

**MUSC-120. PIANO CLASS I****2:2:0**

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. There is a laboratory fee.

Prerequisite: Music major or minor.

Credit, two hours.

**MUSC-121. PIANO CLASS II****2:2:0**

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, two hours.

**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 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****1:1:0**

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.

**MUSC-201. JAZZ IMPROVISATION****2:2:0**

This course provides students with introductory-advanced training in musical improvisation. The Course will develop and deepen the skills required within the act of Improvisation. It will address instrumental/vocal technique and training, music theoretical knowledge, historical knowledge, skills in creativity and independent thinking, ensemble membership, form and analysis interpretation, and ear training. An end of the semester concert will be a culminating event.

Prerequisite: MUSC 113 or instructor approval.

Credit, two hours. Course may be repeated for credit.

**MUSC-207. VOCAL DICTION ENGLISH AND ITALIAN****2:2:0**

This course is designed to introduce the student to the International Phonetic Alphabet (IPA) and its application for the singer and choral conductor with particular regard to the English and Italian languages. Students will learn the basics of singer's diction for each of these languages, and demonstrate their knowledge through online exams,

written exams, speaking and singing. Students will also use the listening lab located at [dictionforsingers.com](http://dictionforsingers.com) as a learning tool.

Credit, two hours.

**MUSC-208. VOCAL DICTION GERMAN AND FRENCH**

**2:2:0**

This course is designed to introduce the student to the International Phonetic Alphabet (IPA) and its application for the singer and choral conductor with particular regard to the French and German languages. Students will learn the basics of singer's diction for each of these languages, and demonstrate their knowledge through online exams, written exams, speaking and singing. Students will also use the listening lab located at [dictionforsingers.com](http://dictionforsingers.com) as a learning tool.

Credit, two 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 hemiolias and polyrhythm.

Prerequisite: Upper-class music major or permission of the instructor. Credit, one hour.

**MUSC-213. MUSIC THEORY III**

**3:3:0**

Introduction to 16th and 18th Century Counterpoint in the style of Palestrina and J.S.Bach. Students will study classical forms such as Variation Techniques, Sonata, and Rondo forms. There is a laboratory fee.

Prerequisites: MUSC-114.

Credit, three hours.

**MUSC-214. MUSIC THEORY IV**

**3:3:0**

Introduction to chromatic harmony including Borrowed, Neapolitan, Augmented 6th chords, Altered Dominants, and Chromatic Mediants. The final section of the course will include a brief overview of Romantic Music, and 20th Century techniques.

Prerequisites: MUSC-213.

Credit, three hours.

**MUSC-215. EAR TRAINING III**

**2:2:0**

The continued study of ear training skills through melodic, harmonic, and rhythmic dictation. Continued development of sight-singing skills.

Prerequisites: MUSC 114 and MUSC 116.

Credit, two hours.

**MUSC-216. EAR TRAINING IV**

**2:2:0**

The continued study of ear training skills through melodic, harmonic, and rhythmic dictation. Continued development of sight-singing skills. Modal singing and dictation studies. Study intervals, two- and three-part dictation.

Prerequisites: MUSC 213 and MUSC 215.

Credit, two hours.

**MUSC-220. PIANO CLASS III**

**2:2:0**

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.

Prerequisite: MUSC-121.

Credit, two hours.

**MUSC-221. PIANO CLASS IV****2:2:0**

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.

Prerequisite: MUSC-220.

Credit, two hours.

**MUSC-300. BASIC CONDUCTING****1:2:0**

As the first semester of a two-semester conducting course sequence, the course addresses basic conducting techniques and prepared students for the vocal (MUSC-309) or instrumental (MUSC-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, two hours.

**MUSC-309. VOCAL CONDUCTING****1:2:0**

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.

Prerequisite: MUSC 300.

Credit, two hours

**MUSC-310. INSTRUMENTAL CONDUCTING****1:2:0**

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. Prerequisite: MUSC 300.

Credit, two hours.

**MUSC-318. FORM AND ANALYSIS****3:3:0**

A study of music structure and the forms of instrumental and vocal music. The application of analytical techniques.

Prerequisite: MUSC-214.

Credit, three hours.

**MUSC-321. COUNTERPOINT****3:3:0**

Students will analyze and write polyphonic compositions, according to certain rules, by adding one or more parts to a given melody.

Prerequisite: MUSC-214.

Credit, three 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 Baroque period.

Prerequisites: MUSC-214.

Credit, three hours.

**MUSC-324. MUSIC HISTORY AND LITERATURE II**

Romantic, Post-Romantic, Impressionistic and 20th Century Eras to the present.

Prerequisites: MUSC-323.

Credit, three hours.

**MUSC-325. GLOBAL MUSIC 3:3:0**

This course will examine global societies through instrumental and vocal musical form. An understanding of the Ethnomusicology field will be addressed to gain musical content knowledge. An emphasis will be placed on traditional music making purposes according to eras and places, yet critical analysis of popular music and its means of sharing audible sound and their diasporic connections are addressed. Issues of power relations will be central to our exploration of how music circulates and what values (social, economic, and aesthetic) are acquired in specific markets. In so doing, we will situate these musics in relation to colonization, the politics of labeling, globalization, and music industries. Concentrated studies will center on Africa and its Diaspora in the Middle East, South America, and the Caribbean. East Asia, Asia, India, Oceania and Australia will be addressed.

Credit, three hours.

**MUSC 326. VOCAL LITERATURE 2:2:0**

A survey overview of the art song repertoire, with particular emphasis on German lieder and French mélodies. Selected Italian, British, American and Spanish song will also be discussed. We will also touch on the poetry and libretti used by the composer. The class will heavily emphasize listening skills and class participation.

Credit, two hours.

**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: MUIN-109, MUSC-114

Credit, two hours.

## **MUED (MUSIC EDUCATION)**

### **MUED 193. FOUNDATIONS OF MUSIC EDUCATION**

**2:2:0**

This course provides students with philosophical exploration and practical learning experiences that will prepare students to construct a vision of themselves as a Teacher of Music. Students will be introduced to the current political, social, theoretical, and content related pedagogical requirements of K-12 Music Educators. Early field experience is required (8 hours). Guidance for the Praxis Exams will be addressed. Hands-on-teaching will emphasize tools and methodologies used in creating effective learning environments, assisting in developing a Music Educator identity. Completion of the course will provide students with an informed and practical experience to the Music Education field. Consent of the Instructor required for non-Music Education majors.

Credit, two hours.

### **MUED-226. 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 a laboratory fee.

Prerequisites: Consent of the Instructor required for non-Music Education majors.

Credit, one hour.

### **MUED-228. 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 a laboratory fee.

Prerequisites: Consent of the Instructor required for non-Music Education majors.

Credit, one hour.

### **MUED-230. 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 a laboratory fee.

Prerequisites: Consent of the Instructor required for non-Music Education majors.

Credit, one hour.

### **MUED-232. 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 a laboratory fee.

Prerequisites: Consent of the Instructor required for non-Music Education majors.

Credit, one hour.

### **MUED-234. VOCAL TECHNIQUES AND METHODS**

**1:2:0**

Basic vocal techniques and methods for the production of optimum sound. Emphasis on the anatomy of the human voice, breathing techniques, vocal exercises, and vocal literature. There is a laboratory fee.

Prerequisites: Consent of the Instructor required for non-Music Education majors.

Credit, one hour.

### **MUED-236. GUITAR CLASS**

**1:1:0**

Introduction to guitar skills. Intended for students with no guitar skills. Emphasis is on achievement of basic proficiency in chord playing, note reading, strumming patterns, and basic finger styles.

Prerequisite: Music education major or permission of the instructor.

Credit, one hour.

**MUED-300. 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.

**MUED-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.

Prerequisite: Passage of Praxis I.

Credit, three hours.

**MUED-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. teaching methods and materials for effective pre-school and elementary and instrumental music teaching.

Prerequisite: Passage of Praxis I.

Credit, three hours.

**MUED-340. MARCHING BAND TECHNIQUES** **2:2:0**

Intended for music education majors, this course will develop and explore techniques for organizing and administering a contemporary high school marching band, develop music and drill writing skills, enable the student to create competition/festival style, show style, or traditional marching band show using computer software and cultivate an understanding of the elements involved in teaching a high school marching band. There is a laboratory fee.

Prerequisites: Consent of the Instructor required for non-Music Education majors.

Credit, two hours.

**MUED-341. CONCERT BAND LITERATURE** **2:2:0**

This course provides a survey of band literature for all ability levels with particular emphasis on assessing the suitability of literature for various age groups and developing knowledge of major band composers and appropriate performance practice for various style periods.

Prerequisites: Consent of the Instructor required for non-Music Education majors.

Credit, two hours.

**MUED 343. CHORAL LITERATURE** **2:2:0**

A survey of practical considerations for working with choral ensembles, with emphasis on audition procedures, seating arrangements, score preparation, rehearsal planning, problem-solving strategies, development of choral musicianship, and selection of repertoire.

Credit, two hours.

**MUED 350. INSTRUMENT REPAIR** **2:2:0**

This course is intended to enable Music Ed students to make informed selections when buying musical instruments for K-12 school use, do routine maintenance, and make selected repairs. There is a laboratory fee.

Prerequisites: Consent of the Instructor required for non-Music Education majors.

Credit, two hours.

## **MUIN (MUSIC INDUSTRY)**

### **MUIN-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.

### **MUIN-111. OVERVIEW OF THE MUSIC INDUSTRY**

**3:3:0**

The introductory course exposes the artist, technician, and businessperson 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.

### **MUIN-201. STUDENT RUN COMPANY PROJECT**

**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. Course may be repeated.

### **MUIN-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.

### **MUIN-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 Communication 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 hours.

### **MUIN-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 hours.

**MUIN-250. 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.

**MUIN-251. 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.

**MUIN 300. CONTEMPORARY ARRANGING****3:3:0**

This course explores the use of the traditional orchestra, hybrid ensembles (electronic + acoustic), and a variety of instrumental combinations that are utilized in today's commercial productions. A variety of contemporary styles within the rock, jazz, world, and pop idioms will be covered in addition to studying the fundamentals of the rhythm section (guitarists, pianists, bassists, and drummers). Assignments will include everything from lead sheet transcription and writing for rhythm sections, to orchestrating television themes, background music, and "Commercial Pop" records.

Credit, three hours.

**MUIN-337. 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.

**MUIN-338. 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.

**MUIN-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.

**MUIN-437. 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.

**MUIN-438. APPLIED MUSIC INDUSTRY CAPSTONE****3:1:0**

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, three hours.

## **MUSIC PERFORMANCE (MUSP)**

### **MUSP-099. PERFORMANCE SEMINAR**

**0:1:0**

The goal of this course is to provide students with opportunities to participate as audience members in the active process of music-making, providing students with opportunities to develop and broaden listening skills as musicians and to hear a broad range of music repertoire presented in live performances by large ensembles, chamber music groups, and soloists. Grades assigned will be either 'P' (Pass) or 'F' (Fail). All music majors must pass six semesters. Credit, zero hours. Course may be repeated.

### **MUSP-101. UNIVERSITY CHORUS**

**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. Course may be repeated for credit.

### **MUSP-102. CHAMBER SINGERS**

**1:2:0**

The study of advanced choral repertoire in a small ensemble format.  
Prerequisite: Passing a placement audition.  
Credit, one hour. Course may be repeated for credit.

### **MUSP-105. MARCHING BAND**

**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. Course may be repeated for credit.

### **MUSP-106. CONCERT BAND**

**1:3:6**

Study of concert literature, performance techniques, and repertoire. Three (3) meetings per week. There is a laboratory fee.  
Credit, one hour. Course may be repeated for credit.

### **MUSP-107. WIND ENSEMBLE**

**1:3:6**

Study of advanced concert literature, performance techniques, and repertoire. Three (3) meetings per week. There is a laboratory fee.  
Prerequisite: Passing a placement audition.  
Credit, one hour. Course may be repeated for credit.

### **MUSP-108. JAZZ ENSEMBLE**

**1:0:2**

Performance of jazz music in large ensemble format. 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.  
Prerequisite: Permission of the Instructor.  
Credit, one hour. Course may be repeated for credit.

### **MUSP-111. JAZZ COMBO**

**1:0:2**

Performance of jazz music in small ensemble format. 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.  
Prerequisite: Permission of the Instructor.  
Credit, one hour. Course may be repeated for credit.

**MUSP-115. WOODWIND QUINTET****1:1:0**

Performance of music literature for standard woodwind quintet (flute, oboe, clarinet, bassoon, French horn). Instruction will be provided in performance techniques and focused on the chamber music of various stylistic periods. There is a laboratory fee.

Prerequisite: Permission of the instructor.

Credit, one hour. Course may be repeated for credit.

**MUSP-116. SAXOPHONE ENSEMBLE****1:1:0**

Performance of music literature for saxophone ensembles, from duets to larger groups. Instruction will be provided in performance techniques and focused on the chamber music of various stylistic periods. There is a laboratory fee.

Prerequisite: Permission of the instructor.

Credit, one hour. Course may be repeated for credit.

**MUSP-117. FLUTE ENSEMBLE****1:1:0**

Performance of music literature for flute ensembles, from duets to larger groups. Instruction will be provided in performance techniques and focused on the chamber music of various stylistic periods. There is a laboratory fee.

Prerequisite: Permission of the instructor.

Credit, one hour. Course may be repeated for credit.

**MUSP-118. CLARINET ENSEMBLE****1:1:0**

Performance of music literature for clarinet ensembles, from duets to larger groups. Instruction will be provided in performance techniques and focused on the chamber music of various stylistic periods. There is a laboratory fee.

Prerequisite: Permission of the instructor.

Credit, one hour. Course may be repeated for credit.

**MUSP-120. BRASS ENSEMBLE****1:1:0**

Performance of music literature for large brass ensembles. Instruction will be provided in performance techniques and focused on the chamber music of various stylistic periods. There is a laboratory fee.

Prerequisite: Permission of the instructor. Course may be repeated for credit.

Credit, one hour.

**MUSP-121. BRASS QUINTET****1:1:0**

Performance of music literature for standard brass quintet (trumpet, French horn, trombone/euphonium, tuba/bass trombone). Instruction will be provided in performance techniques and focused on the chamber music of various stylistic periods. There is a laboratory fee.

Prerequisite: Permission of the instructor.

Credit, one hour. Course may be repeated for credit.

**MUSP-122. TRUMPET ENSEMBLE****1:1:0**

Performance of music literature for trumpet ensembles, from duets to larger groups. Instruction will be provided in performance techniques and focused on the chamber music of various stylistic periods. There is a laboratory fee.

Prerequisite: Permission of the instructor.

Credit, one hour. Course may be repeated for credit.

**MUSP-123. TROMBONE ENSEMBLE****1:1:0**

Performance of music literature for trombone ensembles, from duets to larger groups. Instruction will be provided in performance techniques and focused on the chamber music of various stylistic periods. There is a laboratory fee.

Prerequisite: Permission of the instructor.

Credit, one hour. Course may be repeated for credit.

**MUSP-124. TUBA/EUPHONIUM ENSEMBLE****1:1:0**

Performance of music literature for tuba/euphonium ensembles, from duets to larger groups. Instruction will be provided in performance techniques and focused on the chamber music of various stylistic periods. There is a laboratory fee.

Prerequisite: Permission of the instructor.

Credit, one hour. Course may be repeated for credit.

**MUSP-125. STRING ENSEMBLE****1:1:0**

Performance of music literature for orchestral string ensembles, from duets to larger groups. Instruction will be provided in performance techniques and focused on the chamber music of various stylistic periods. There is a laboratory fee.

Prerequisite: Permission of the instructor.

Credit, one hour. Course may be repeated for credit.

**MUSP-126. GUITAR ENSEMBLE****1:1:0**

Performance of music literature for guitar ensembles, from duets to larger groups. Instruction will be provided in performance techniques and focused on the chamber music of various stylistic periods. There is a laboratory fee.

Prerequisite: Permission of the instructor.

Credit, one hour. Course may be repeated for credit.

**MUSP-127. PERCUSSION ENSEMBLE****1:1:0**

Performance of music literature for mixed percussion ensembles, from duets to larger groups. Instruction will be provided in performance techniques and focused on the chamber music of various stylistic periods. There is a laboratory fee.

Prerequisite: Permission of the instructor.

Credit, one hour. Course may be repeated for credit.

**MUSP-128. POPULAR MUSIC ENSEMBLE****1:1:0**

Performance of Rhythm and Blues, Pop, and Rock music in small ensembles. Instruction will be provided in ensemble/stage band performance techniques with electronic and acoustic instruments for various styles of popular music. There is a laboratory fee.

Credit, one hour. Course may be repeated for credit.

**MUSP-131. APPLIED PIANO****1:1:0**

Freshman-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Students wishing to take minor lessons in this area will enroll in 100-level lessons every semester of study. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Permission of the instructor.

Credit, one hour. Course may be repeated for credit.

**MUSP-134. APPLIED VOICE****1:1:0**

Freshman-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Students wishing to take minor lessons in this area will enroll in 100-level lessons every semester of study. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Permission of the instructor.

Credit, one hour. Course may be repeated for credit.

**MUSP-140. APPLIED FLUTE****1:1:0**

Freshman-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Students wishing to take minor lessons in this area will enroll in 100-level lessons every semester of study. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Permission of the instructor.

Credit, one hour. Course may be repeated for credit.

**MUSP-141. APPLIED OBOE****1:1:0**

Freshman-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Students wishing to take minor lessons in this area will enroll in 100-level lessons every semester of study. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Permission of the instructor.

Credit, one hour. Course may be repeated for credit.

**MUSP-142. APPLIED CLARINET****1:1:0**

Freshman-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Students wishing to take minor lessons in this area will enroll in 100-level lessons every semester of study. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Permission of the instructor.

Credit, one hour. Course may be repeated for credit.

**MUSP-143. APPLIED BASSOON****1:1:0**

Freshman-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Students wishing to take minor lessons in this area will enroll in 100-level lessons every semester of study. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Permission of the instructor.

Credit, one hour. Course may be repeated for credit.

**MUSP-144. APPLIED SAXOPHONE****1:1:0**

Freshman-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Students wishing to take minor lessons in this area will enroll in 100-level lessons every semester of study. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Permission of the instructor.

Credit, one hour. Course may be repeated for credit.

**MUSP-150. APPLIED TRUMPET****1:1:0**

Freshman-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Students wishing to take minor lessons in this area will enroll in 100-level lessons every semester of study. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Permission of the instructor.

Credit, one hour. Course may be repeated for credit.

**MUSP-151. APPLIED FRENCH HORN****1:1:0**

Freshman-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Students wishing to take minor lessons in this area will enroll in 100-level lessons every semester of study. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Permission of the instructor.

Credit, one hour. Course may be repeated for credit.

**MUSP-152. APPLIED TROMBONE****1:1:0**

Freshman-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Students wishing to take minor lessons in this area will enroll in 100-level lessons every semester of study. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Permission of the instructor.

Credit, one hour. Course may be repeated for credit.

**MUSP-153. APPLIED EUPHONIUM****1:1:0**

Freshman-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Students wishing to take minor lessons in this area will enroll in 100-level lessons every semester of study. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Permission of the instructor.

Credit, one hour. Course may be repeated for credit.

**MUSP-154. APPLIED TUBA****1:1:0**

Freshman-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Students wishing to take minor lessons in this area will enroll in 100-level lessons every semester of study. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Permission of the instructor.

Credit, one hour. Course may be repeated for credit.

**MUSP-170. APPLIED PERCUSSION I****1:1:0**

Freshman-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Students wishing to take minor lessons in this area will enroll in 100-level lessons every semester of study. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Permission of the instructor.

Credit, one hour. Course may be repeated for credit.

**MUSP-171. APPLIED DRUM SET****1:1:0**

Applied drum set addresses technical and musical development in a variety of drum set styles. This course may only be taken as a minor or secondary applied music area. There is a laboratory fee.

Prerequisite: Permission of the instructor.

Credit, one hour. Course may be repeated for credit.

**MUSP-180. APPLIED VIOLIN****1:1:0**

Freshman-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Students wishing to take minor lessons in this area will enroll in 100-level lessons every

semester of study. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Permission of the instructor.

Credit, one hour. Course may be repeated for credit.

**MUSP-181. APPLIED VIOLA** **1:1:0**

Freshman-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Students wishing to take minor lessons in this area will enroll in 100-level lessons every semester of study. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Permission of the instructor.

Credit, one hour. Course may be repeated for credit.

**MUSP-182. APPLIED CELLO** **1:1:0**

Freshman-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Students wishing to take minor lessons in this area will enroll in 100-level lessons every semester of study. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee. Prerequisite: Permission of the instructor. Credit, one hour. Course may be repeated for credit.

**MUSP-183. APPLIED DOUBLE BASS** **1:1:0**

Freshman-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Students wishing to take minor lessons in this area will enroll in 100-level lessons every semester of study. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Permission of the instructor.

Credit, one hour. Course may be repeated for credit.

**MUSP-184. APPLIED GUITAR** **1:1:0**

Freshman-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Students wishing to take minor lessons in this area will enroll in 100-level lessons every semester of study. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Permission of the instructor.

Credit, one hour. Course may be repeated for credit.

**MUSP-231. APPLIED PIANO** **1:1:0**

Sophomore-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 100-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-234. APPLIED VOICE** **1:1:0**

Sophomore-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 100-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-240. APPLIED FLUTE****1:1:0**

Sophomore-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 100-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-241. APPLIED OBOE****1:1:0**

Sophomore-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 100-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-242. APPLIED CLARINET****1:1:0**

Sophomore-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 100-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-243. APPLIED BASSOON****1:1:0**

Sophomore-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 100-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-244. APPLIED SAXOPHONE****1:1:0**

Sophomore-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 100-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-250. APPLIED TRUMPET****1:1:0**

Sophomore-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 100-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-251. APPLIED FRENCH HORN****1:1:0**

Sophomore-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 100-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-252. APPLIED TROMBONE****1:1:0**

Sophomore-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 100-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-253. APPLIED EUPHONIUM****1:1:0**

Sophomore-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 100-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-254. APPLIED TUBA****1:1:0**

Sophomore-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 100-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-270. APPLIED PERCUSSION I****1:1:0**

Sophomore-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 100-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-271. APPLIED DRUM SET****1:1:0**

Applied drum set addresses technical and musical development in a variety of drum set styles. This course may only be taken as a minor or secondary applied music area. There is a laboratory fee.

Prerequisite: Passage of two semesters of 100-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-280. APPLIED VIOLIN****1:1:0**

Sophomore-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 100-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-281. APPLIED VIOLA****1:1:0**

Sophomore-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 100-level applied music. Credit, one hour. Course may be repeated for credit.

**MUSP-282. APPLIED CELLO****1:1:0**

Sophomore-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 100-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-283. APPLIED DOUBLE BASS****1:1:0**

Sophomore-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 100-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-284. APPLIED GUITAR****1:1:0**

Sophomore-level applied music. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 100-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-302. OPERA WORKSHOP****1:1:0**

The opera workshop is a select ensemble/class for moderate to advanced classical singers. Topics include the musical, linguistic, and dramatic preparation and performance of roles and scenes from the operatic and operetta repertory. In addition, the student will learn more about the history and literature of opera, as well as the opera industry (auditioning, young artist programs, etc.).

Credit, two hours. Course may be repeated for credit.

**MUSP-331. APPLIED PIANO****1:1:0**

Junior-level applied music. An upper-division jury must be passed before enrollment. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 200-level applied music and an upper-division jury.

Credit, one hour. Course may be repeated for credit.

**MUSP-334. APPLIED VOICE****1:1:0**

Junior-level applied music. An upper-division jury must be passed before enrollment. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 200-level applied music and an upper-division jury.

Credit, one hour. Course may be repeated for credit.

**MUSP-340. APPLIED FLUTE****1:1:0**

Junior-level applied music. An upper-division jury must be passed before enrollment. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 200-level applied music and an upper-division jury.

Credit, one hour. Course may be repeated for credit.

**MUSP-341. APPLIED OBOE****1:1:0**

Junior-level applied music. An upper-division jury must be passed before enrollment. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 200-level applied music and an upper-division jury.

Credit, one hour. Course may be repeated for credit.

**MUSP-342. APPLIED CLARINET****1:1:0**

Junior-level applied music. An upper-division jury must be passed before enrollment. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 200-level applied music and an upper-division jury.

Credit, one hour. Course may be repeated for credit.

**MUSP-343. APPLIED BASSOON****1:1:0**

Junior-level applied music. An upper-division jury must be passed before enrollment. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 200-level applied music and an upper-division jury.

Credit, one hour. Course may be repeated for credit.

**MUSP-344. APPLIED SAXOPHONE****1:1:0**

Junior-level applied music. An upper-division jury must be passed before enrollment. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 200-level applied music and an upper-division jury.

Credit, one hour. Course may be repeated for credit.

**MUSP-350. APPLIED TRUMPET****1:1:0**

Junior-level applied music. An upper-division jury must be passed before enrollment. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 200-level applied music and an upper-division jury.

Credit, one hour. Course may be repeated for credit.

**MUSP-351. APPLIED FRENCH HORN****1:1:0**

Junior-level applied music. An upper-division jury must be passed before enrollment. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 200-level applied music and an upper-division jury.

Credit, one hour. Course may be repeated for credit.

**MUSP-352. APPLIED TROMBONE****1:1:0**

Junior-level applied music. An upper-division jury must be passed before enrollment. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include

progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 200-level applied music and an upper-division jury.

Credit, one hour. Course may be repeated for credit.

**MUSP-353. APPLIED EUPHONIUM**

**1:1:0**

Junior-level applied music. An upper-division jury must be passed before enrollment. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 200-level applied music and an upper-division jury.

Credit, one hour. Course may be repeated for credit.

**MUSP-354. APPLIED TUBA**

**1:1:0**

Junior-level applied music. An upper-division jury must be passed before enrollment. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 200-level applied music and an upper-division jury.

Credit, one hour. Course may be repeated for credit.

**MUSP-370. APPLIED PERCUSSION I**

**1:1:0**

Junior-level applied music. An upper-division jury must be passed before enrollment. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 200-level applied music and an upper-division jury.

Credit, one hour. Course may be repeated for credit.

**MUSP-380. APPLIED VIOLIN**

**1:1:0**

Junior-level applied music. An upper-division jury must be passed before enrollment. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 200-level applied music and an upper-division jury.

Credit, one hour. Course may be repeated for credit.

**MUSP-381. APPLIED VIOLA**

**1:1:0**

Junior-level applied music. An upper-division jury must be passed before enrollment. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 200-level applied music and an upper-division jury.

Credit, one hour. Course may be repeated for credit.

**MUSP-382. APPLIED CELLO**

**1:1:0**

Junior-level applied music. An upper-division jury must be passed before enrollment. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 200-level applied music and an upper-division jury.

Credit, one hour. Course may be repeated for credit.

**MUSP-383. APPLIED DOUBLE BASS****1:1:0**

Junior-level applied music. An upper-division jury must be passed before enrollment. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 200-level applied music and an upper-division jury.

Credit, one hour. Course may be repeated for credit.

**MUSP-384. APPLIED GUITAR****1:1:0**

Junior-level applied music. An upper-division jury must be passed before enrollment. Music majors must pass two semesters of this level before advancing to the next number in the sequence. Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 200-level applied music and an upper-division jury.

Credit, one hour. Course may be repeated for credit.

**MUSP-390. JUNIOR RECITAL****1:1:0**

All students with a concentration in music must enroll in and perform their junior recital in their final semester of 300-level lessons. The Junior Recital will consist of a minimum of 30 minutes of music representing a variety of eras and styles. The music will be selected by the applied instructor and student. The student must pass a pre-recital jury scheduled six weeks before the scheduled recital date before permission for the public recital is approved. Credit, one hour.

**MUSP-431. APPLIED PIANO****1:1:0**

Senior-level applied music. Bachelor of arts in music majors must pass at least one semester of this level before enrolling in MUSP 490 (Senior Recital) and MUSP 499 (Senior Capstone). Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 300-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-434. APPLIED VOICE****1:1:0**

Senior-level applied music. Bachelor of arts in music majors must pass at least one semester of this level before enrolling in MUSP 490 (Senior Recital) and MUSP 499 (Senior Capstone). Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 300-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-440. APPLIED FLUTE****1:1:0**

Senior-level applied music. Bachelor of arts in music majors must pass at least one semester of this level before enrolling in MUSP 490 (Senior Recital) and MUSP 499 (Senior Capstone). Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 300-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-441. APPLIED OBOE****1:1:0**

Senior-level applied music. Bachelor of arts in music majors must pass at least one semester of this level before enrolling in MUSP 490 (Senior Recital) and MUSP 499 (Senior Capstone). Applied music courses include progressive

technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 300-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-442. APPLIED CLARINET**

**1:1:0**

Senior-level applied music. Bachelor of arts in music majors must pass at least one semester of this level before enrolling in MUSP 490 (Senior Recital) and MUSP 499 (Senior Capstone). Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 300-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-443. APPLIED BASSOON**

**1:1:0**

Senior-level applied music. Bachelor of arts in music majors must pass at least one semester of this level before enrolling in MUSP 490 (Senior Recital) and MUSP 499 (Senior Capstone). Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 300-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-444. APPLIED SAXOPHONE**

**1:1:0**

Senior-level applied music. Bachelor of arts in music majors must pass at least one semester of this level before enrolling in MUSP 490 (Senior Recital) and MUSP 499 (Senior Capstone). Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 300-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-450. APPLIED TRUMPET**

**1:1:0**

Senior-level applied music. Bachelor of arts in music majors must pass at least one semester of this level before enrolling in MUSP 490 (Senior Recital) and MUSP 499 (Senior Capstone). Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 300-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-451. APPLIED FRENCH HORN**

**1:1:0**

Senior-level applied music. Bachelor of arts in music majors must pass at least one semester of this level before enrolling in MUSP 490 (Senior Recital) and MUSP 499 (Senior Capstone). Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 300-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-452. APPLIED TROMBONE**

**1:1:0**

Senior-level applied music. Bachelor of arts in music majors must pass at least one semester of this level before enrolling in MUSP 490 (Senior Recital) and MUSP 499 (Senior Capstone). Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 300-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-453. APPLIED EUPHONIUM****1:1:0**

Senior-level applied music. Bachelor of arts in music majors must pass at least one semester of this level before enrolling in MUSP 490 (Senior Recital) and MUSP 499 (Senior Capstone). Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 300-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-454. APPLIED TUBA****1:1:0**

Senior-level applied music. Bachelor of arts in music majors must pass at least one semester of this level before enrolling in MUSP 490 (Senior Recital) and MUSP 499 (Senior Capstone). Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 300-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-470. APPLIED PERCUSSION I****1:1:0**

Senior-level applied music. Bachelor of arts in music majors must pass at least one semester of this level before enrolling in MUSP 490 (Senior Recital) and MUSP 499 (Senior Capstone). Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 300-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-480. APPLIED VIOLIN****1:1:0**

Senior-level applied music. Bachelor of arts in music majors must pass at least one semester of this level before enrolling in MUSP 490 (Senior Recital) and MUSP 499 (Senior Capstone). Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 300-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-481. APPLIED VIOLA****1:1:0**

Senior-level applied music. Bachelor of arts in music majors must pass at least one semester of this level before enrolling in MUSP 490 (Senior Recital) and MUSP 499 (Senior Capstone). Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 300-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-482. APPLIED CELLO****1:1:0**

Senior-level applied music. Bachelor of arts in music majors must pass at least one semester of this level before enrolling in MUSP 490 (Senior Recital) and MUSP 499 (Senior Capstone). Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 300-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-483. APPLIED DOUBLE BASS****1:1:0**

Senior-level applied music. Bachelor of arts in music majors must pass at least one semester of this level before enrolling in MUSP 490 (Senior Recital) and MUSP 499 (Senior Capstone). Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 300-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP-484. APPLIED GUITAR****1:1:0**

Senior-level applied music. Bachelor of arts in music majors must pass at least one semester of this level before enrolling in MUSP 490 (Senior Recital) and MUSP 499 (Senior Capstone). Applied music courses include progressive technical studies, scales, exercises, repertoire from varied eras and genres, and mandatory performances on music seminars. There is a laboratory fee.

Prerequisite: Passage of two semesters of 300-level applied music.

Credit, one hour. Course may be repeated for credit.

**MUSP 490. SENIOR RECITAL****1:1:0**

All students with a concentration in music or music education must enroll in and perform their senior recital in their final semester of lessons. The Senior Recital will consist of a minimum of 45 minutes of music representing a variety of eras and styles. The music will be selected by the applied instructor and student. The student must pass a pre-recital jury scheduled six weeks before the scheduled recital date before permission for the public recital is approved.

Credit, one hour.

**MUSP 499. SENIOR CAPSTONE****2:1:0**

All students with a concentration in music must enroll in their senior capstone in the same semester as their senior recital. The senior capstone will consist of a project approved by and supervised by the applied music instructor. Projects must include a public presentation and written component. Potential projects may focus on theoretical, historical, or pedagogical aspects of the music to be performed on the senior recital. Credit, two hours.

**DEPARTMENT OF ENGLISH AND FOREIGN LANGUAGES  
ENGLISH PROGRAM**

**Chair:** Joe Amoako

**Professors:** Joe Amoako, Fidelis Balogun, Adenike Davidson

**Associate Professors:** Andrew Blake, Victor Gomia, Myrna Nurse, Susmita Roye, Jesse Zuba

**Assistant Professors:** Amanda Anderson, Brody Bluemel

**Lecturers:** Natalie Belcher, Tina Petrovic, Sandra Sokowski,

**Visiting Assistant Professor:** Ordner Taylor

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. 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, 113, 313 OR 320, 314, 322. Other courses may be substituted with the approval of the Department.

**B.A. DEGREE IN ENGLISH**  
**Effective Fall 2017**

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	History	3	ENGL-105	Basic Study of Literature	3
MTSC-107	Math & Data Analysis	3	MVSC-100	Fitness and Wellness	2
INFO-101	Applying Computers	3	MTSC-108 or FIN-102	Math & the Environment or Money Matters	3
xx-xxx	Foreign Language 101	3	xx-xxx	Foreign Language 102	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-204	Linguistics	3
ENGL-301	English Literature I	3	ENGL-302	English Literature II	3
xx-xxx	Foreign Language 201	3	xx-xxx	Foreign Language 202	3
ENGL-201	World Literature I	3	ENGL-202	World Literature II	3
PSYC-201	Intro. to General Psychology	3	ENGL-xxx	English Elective	3
PHIL-101	Critical Thinking	3			
	Total Credits	18		Total Credits	15
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-205	African American Literature I	3	ENGL-206	African American Literature II	3
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-410	Structure of Modern English	3
GLOB-395	Global Societies	3	xx-xxx	Natural Science	4
	Total Credits	15		Total Credits	16
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-402	Contemporary Literature	3	ENGL-xxx	English Elective	6
ENGL-xxx	English Elective	3	xx-xxx	Electives (Free)	6
ENGL-403	◆ Senior Seminar	3			
xx-xxx	Electives (Free)	3			
xx-xxx	Arts/Humanities Elective	3			
	Total Credits	15		Total Credits	12

- ◆ Senior Capstone
- ▶ Writing Intensive Course

Total Credits: 122
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## **ENGLISH (ENGL) (01)**

### **ENGL-098. CONV ENGLISH – NON-NATIVE OF ENGLISH**

**3:3:0**

Credit, three hours.

### **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.

### **ENGL-100. 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.

### **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, Rosetti, 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:** Joe Amoako

**Professors:**

**Associate Professors:** Edward Dawley, Ladji Sacko, John Teye

**Assistant Professor:**

**Visiting Assistant Professor:** Joseph Fees

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.

### **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 Program 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.

## **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

**Chair:** Akwasi Osei

**Professors:** Yinghong Cheng, Samuel Hoff, Akwasi Osei, Alexa Silver, Marshall Stevenson, William Flayhart (Emeritus); Steven Newton (Administration)

**Associate Professors:** Donna Patterson, Niklas Robinson, Stephen Taylor, Ifeyinwa Udezulu, Susan West

**Assistant Professors:** Kami Fletcher, Robin Krawitz

*The Department of History, Political Science and Philosophy seeks to provide a thorough and dynamic liberal arts education with a multicultural perspective. It does this throughout its curriculum by achieving the broad learning goals outlined by the University and the College of Arts, Humanities and Social Sciences by creating the space for students and faculty to engage in intellectual discovery and independent thinking. By doing this we prepare our students for post baccalaureate schools and careers in relevant fields locally and globally.*

Students selecting a major in the department are expected to gain knowledge pertinent to their subject area and to demonstrate what has been learned through courses, internships, and extracurricular activities. Ultimately, student success is the goal. 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 its best in the areas of teaching, research, and service so as to ensure student success.

### HISTORY MAJOR

A student who chooses History as a major must complete the requirements of the History curriculum and must satisfy the General Education Requirements prescribed by the University. A total of thirty-six (36) hours of history is required. A student must complete HIST 101, 102, 201 and 202, or 101, 102, 203 and 204. All majors must also take HIST 205, 290, 446 and 475. The remaining twelve hours must be at the 300-400 level. 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, 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:** There are no prerequisites in the History curriculum.

### 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: POLS 103 (Introduction to Political Science); POLS 200 (American National Government); POLS 210 (Contemporary Political Ideologies); POLS 220 (Comparative Government); POLS 230 (International Politics). POLS 214 (Research Methods, or its equivalent as approved by the Chair), and POLS 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 six hours of POLS 420 (Independent Study) and/or POLS 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: HIST 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: POLS 103 (Introduction to Political Science); POLS 200 (American National Government); POLS 210 (Contemporary Political Ideologies); POLS 220 (Comparative Government); POLS 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: PHIL 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  
2017**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-101	<b>English Comp I</b>	3	ENGL-102	<b>English Comp II</b>	3
xx-xxx	Natural Science w/lab	4	xxxx-xxx	Natural Science	3
MTSC 107; xxx	MTSC 107; or any MTSC course taken at DSU or transferred in;	3	xxxx-xxx	Arts/Humanities Elective	3
HIST-101	<b>World History to 16<sup>th</sup> Cent</b>	3	HIST-102	<b>World History fr. 16<sup>th</sup> Century</b>	3
HIST-191	<b>University Seminar I</b>	1	HIST-192	<b>University Seminar II</b>	1
KINE-100	<b>Fitness and Wellness</b>	2	POLS-200	<b>American National Govern</b>	3
	Total Credits	<b>16</b>		Total Credits	<b>16</b>
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	Afro. American Lit. I	3	ENGL-206	Afro. American Lit II	3
xxxx-xxx	Foreign Language I	3	xxxx-xxx	Foreign Language II	3
HIST-201	<b>American Hist. to 1865 OR</b>		HIST-202	<b>American Hist. fr. 1865 OR</b>	
HIST-203	<b>African Amer. Exp. To 1865</b>	3	HIST-204	<b>African Amer. Exp. Fr. 1865</b>	3
PHIL-101	<b>Critical Thinking</b>	3	HIST-290	<b>Intro to Historical Methods</b>	3
xxxx-xxx	Open Elective	3	ENGL-200	<b>Speech</b>	3
	Total Credits	15		Total Credits	15
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
HIST-205	<b>Themes in World History</b>	3	HIST-446	<b>Research Methods</b>	3
HIST-xxx	<b>History Conc. (300-400)</b>	3	HIST-xxx	<b>History Conc. (300-400)</b>	3
HIST-xxx	<b>History Conc. (300-400)</b>	3	GLOB-395	<b>Global Societies</b>	3
GEOG-101	<b>Human Geography OR</b>	3	HIST-xxx	<b>History Conc. (300-400)</b>	3
GEOG-201	<b>World Regional Geography</b>	3	xxxx-xxx	Open Elective	3
	Total Credits	15		Total Credits	15
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
xxxx-xxx	Arts/Human. Elect. (300-400)	3	xxxx-xxx	Social Science Elective (300-400)	3
xxxx-xxx	Social Science Elect. (300-400)	3	xxxx-xxx	Arts/Human. Elect. (300-400)	3
HIST-475	<b>Senior Capstone **</b>	3	xxxx-xxx	Open Electives	8
xx-xxx	Open Electives	5			
	Total Credits	14		Total Credits	14

**\*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.

<b>Total Credits: 120</b>
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<b>Department:</b> HIST		
<b>Program/Major:</b> History		
<b>Concentration (if applicable)</b>		
<b>Effective Date</b>		
<b>A-t-C Outcome</b>	<b>Course(s)</b>	<b>Course Name(s)</b>
<b>Reading</b>	POLS 200	American National Government
<b>Writing Intensive or Writing in Major (outside capstone)</b>	All upper-level (300-400) HIST courses except Senior Capstone	
<b>Speaking – Oral Communication – Presentation</b>	HIST 475	Senior Capstone
<b>Speaking – Oral Communication – Discussion</b>	All History courses 300 level and above.	
<b>Listening</b>	POLS 200	American National Government
<b>Computer Competency</b>	Any department course on Blackboard	
<b>Information Literacy</b>	HIST 446	Research Methods in History
<b>Critical Thinking/Problem Solving</b>	PHIL 101	Critical Thinking
<b>Quantitative Reasoning</b>	Any Math course transferred in or taken at DSU (except MTSC 107); Econ 201 and ECON 202	
<b>Multicultural</b> 6 credits (choose two)	Any two approved multicultural courses	
<b>African-American Experience</b>	HIST 203; HIST 204; any course that has the African American experience as a focus;	African American History to 1865 African American History since 1865
<b>Self-Evaluation</b>	PHIL 101; PHIL 201	Critical Thinking; Introduction to Philosophy;
<b>Wellness</b>	All courses in the KINE curriculum	
<b>Global Issues</b>	HIST 205 Themes in World History	

**CURRICULUM IN POLITICAL SCIENCE  
2017**

<b>Freshman Fall Semester</b>			<b>Freshman Spring Semester</b>		
Course	Course Name	Cr	Course	Course Name	Cr
<b>ENGL-101</b>	<b>English Comp I</b>	3	<b>ENGL-102</b>	<b>English Comp II</b>	3
xx-xxx	Natural Science w/lab	4	xxxx-xxx	Natural Science	3
MTSC 107: xxx	MTSC 107; or any MTSC course taken at DSU or transferred in.	3	xxxx-xxx	Arts/Humanities Elective	3
<b>POLS-191</b>	<b>University Seminar I</b>	1	<b>POLS-192</b>	<b>University Seminar II</b>	1
<b>KINE-100</b>	<b>Fitness and Wellness</b>	2	<b>HIST-101</b>	<b>World History to 16<sup>th</sup> Cent OR</b>	
<b>POLS-103</b>	<b>Intro to Political Science</b>	3	<b>HIST-102</b>	<b>World History from 16<sup>th</sup> Cent</b>	3
			<b>POLS-200</b>	<b>American National Govern</b>	3
	Total Credits	<b>16</b>		Total Credits	<b>16</b>
<b>Sophomore Fall Semester</b>			<b>Sophomore Spring Semester</b>		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-201	World Literature I OR		ENGL-202	World Literature II OR	
ENGL-205	African Amer. Lit. I	3	ENGL-206	African Amer. Lit. II	3
<b>POLS-220</b>	<b>Comparative Government</b>	3	<b>POLS-230</b>	<b>International Politics</b>	3
<b>HIST-201</b>	<b>American Hist. to 1865 OR</b>		<b>HIST-202</b>	<b>American Hist. from. 1865 OR</b>	
<b>HIST-203</b>	<b>African Amer. Exp. To 1865</b>	3	<b>HIST-204</b>	<b>African Amer. Exp. Fr. 1865</b>	3
<b>ENGL-200</b>	<b>Speech</b>	3	<b>PHIL-101</b>	<b>Critical Thinking</b>	3
xx-xxx	Foreign Language I	3	xxxx-xxx	Foreign Language II	3
<b>GEOG-101</b>	<b>Human Geography OR</b>				
<b>GEOG-102</b>	<b>World Regional Geography</b>	3			
	Total Credits	<b>18</b>		Total Credits	<b>15</b>
<b>Junior Fall Semester</b>			<b>Junior Spring Semester</b>		
Course	Course Name	Cr	Course	Course Name	Cr
<b>POLS-210</b>	<b>Contemp. Political Ideologies</b>	3	<b>POLS-214</b>	<b>Research Methods</b>	3
<b>POLS-xxx</b>	<b>Political Science Elective</b>	3	<b>POLS-xxx</b>	<b>Political Science Elective</b>	3
<b>ECON-201</b>	<b>Macroeconomics</b>	3	<b>POLS-xxx</b>	<b>Political Science Elective</b>	3
<b>PHIL-xxx</b>	<b>Philosophy Elective</b>	3	<b>POLS-xxx</b>	<b>Political Science Elective</b>	3
<b>GLOB-395</b>	<b>Global Societies</b>	3	<b>ECON-202</b>	<b>Microeconomics</b>	3
	Total Credits	<b>15</b>		Total Credits	<b>15</b>
<b>Senior Fall Semester</b>			<b>Senior Spring Semester</b>		
Course	Course Name	Cr	Course	Course Name	Cr
<b>POLS-xxx</b>	<b>Political Science Elective</b>	3	<b>POLS-xxx</b>	<b>Political Science Elective</b>	3
<b>POLS-475</b>	<b>Senior Capstone**</b>	3	xxxx-xxx	Open Electives	10
xxxx-xxx	Open Electives	6			
	Total Credits	<b>12</b>		Total Credits	<b>13</b>

\*Students must earn a 'C' or better in all courses shown in bold.

<b>Total Credits: 120</b>
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<b>Across-the-Curriculum (A-t-C) Outcomes List</b>		
<b>Department:</b>	HIST	
<b>Program/Major:</b>	Political Science	
<b>Concentration (if applicable)</b>		
<b>Effective Date</b>		
<b>A-t-C Outcome</b>	<b>Course(s)</b>	<b>Course Name(s)</b>
<b>Reading</b>	POLS 200	American National Government
<b>Writing Intensive or Writing in Major (outside capstone)</b>	All upper-level (300-400) POLS courses except Senior Capstone	
<b>Speaking – Oral Communication – Presentation</b>	POLS 475	Senior Capstone
<b>Speaking – Oral Communication – Discussion</b>	All upper-level POLS courses (300-400)	
<b>Listening</b>	POLS 200	American National Government
<b>Computer Competency</b>	Any department course on Blackboard	
<b>Information Literacy</b>	POLS 214	Research Methods in Political Science
<b>Critical Thinking/Problem Solving</b>	PHIL 101	Critical Thinking
<b>Quantitative Reasoning</b>	Any Math course transferred in or taken at DSU (except MTSC 107); ECON 201 or 202	Macroeconomics; Microeconomics
<b>Multicultural</b> 6 credits (choose two)	Any two approved multicultural courses	
<b>African-American Experience</b>	HIST 203; HIST 204; any course that has the African American experience as the focus;	African American History to 1865 African American History since 1865
<b>Self-Evaluation</b>	PHIL 101; PHIL 201	Critical Thinking; Introduction to Philosophy;
<b>Wellness</b>	All courses in the KINE curriculum	
<b>Global Issues</b>	POLS 230	International Politics

## **HISTORY (HIST)**

### ***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. Emphasis on politics, culture and society.  
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 politics, social and cultural developments of the 20th and the 21<sup>st</sup> centuries.  
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-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-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-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 475 SENIOR CAPSTONE -****3:3:0**

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. Credit, three hours minimum.

**HIST-445. TEACHING HISTORY AND SOCIAL SCIENCE IN THE ELEMENTARY AND SECONDARY SCHOOL LEVELS.****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. 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 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-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 (POLS)**

### **POLS-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.

### **POLS-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

### **POLS-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.

### **POLS-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.

### **POLS-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.

### **POLS-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.

### **POLS-300. STATE AND LOCAL GOVERNMENT.**

**3:3:0**

A study of US state and urban governments with special emphasis on Delaware.

Credit, three hours.

### **POLS-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.

### **POLS-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.

**POLS-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.

**POLS-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.

**POLS-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.

**POLS-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.

**POLS-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.

**POLS-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.

**POLS-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.

**POLS-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.

**POLS-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.

**POLS-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.

**POLS-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.

**POLS-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.

**POLS-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.

**POLS-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.

**POLS-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.

**POLS-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.

**POLS 475 SENIOR CAPSTONE****3:3:0**

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. Credit, three hours minimum

## **GEOGRAPHY (GEOG)**

### **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)**

### **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/MGMT-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 PSYCHOLOGY

**Chair:** Gwendolyn Scott-Jones

**Associate Professors:** Padmini Banerjee, Brian Friel, Rachel Pulverman, John Rich, Amy Rogers, Gwendolyn Scott-Jones

**Lecturer/Practicum Coordinator:** Marcille Sewell

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. (2017). APA Mission Statement. Retrieved June 29, 2017 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.

### **Certified Alcohol and Drug Counseling (CADC) Program**

Delaware State University, through the Department of Psychology, offers courses to become a practicing Certified Alcohol and Drug Counselor. The courses include core areas critical to new providers as well as a variety of special topics to keep more-seasoned providers abreast of best practices and emerging trends in alcohol and drug counseling. These courses may be taken for recertification for current alcohol and drug counselors as well. The Program requires eighteen (18) credit hours of psychology courses as follows: 200, 309, 407, 408, 409 and 410. In addition, PSYC 435 is required to complete 300 hours of supervised training.

**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>					
<p>* 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</p>					

**Major Name:**

- **Psychology**

**Student Learning Outcomes:**

Goal 1: Student Learning

Students will demonstrate familiarity with the major concepts, theoretical perspectives, empirical findings and historical trends in psychology.

SLO 1: Knowledge Base of Psychology

Students will characterize the nature of psychology as a discipline

SLO 2: Content areas of Psychology

Students will demonstrate knowledge and understanding representing appropriate breadth and depth in selected content areas of psychology:

1. Learning and cognition
2. Individual differences, psychometrics, personality and social processes, including those related to sociocultural and international dimensions
3. Biological bases of behavior and mental processes, including physiology, sensation, perception, comparative, motivation and emotion
4. Developmental changes in behavior and mental processes across the life span.

SLO 3: Major Perspectives of Psychology

Students will explain major perspectives of psychology (e.g., behavioral, biological, cognitive, evolutionary, humanistic, psychodynamic and sociocultural).

SLO 4: Relevant Ethical Issues in Psychology

Students will identify relevant ethical issues in psychology, including a general understanding of the American Psychological Association (APA) Code of Ethics.

SLO 5: Effective Strategies for Self-Management/Self-Improvement

Students will develop insight into their own and others' behavior and mental processes and apply effective strategies for self-management/self-improvement.

SLO 6: Information Technology Competency

Students will demonstrate information competence and the ability to use computers and other technology for many purposes.

**Faculty who currently teach in this major:**

- Dr. Padmini Banerjee, Associate Professor
- Dr. Brian Friel, Associate Professor
- Dr. Rachel Pulverman, Associate Professor
- Dr. John Rich, Associate Professor
- Dr. Amy Rogers, Associate Professor
- Dr. Gwendolyn Scott-Jones, Associate Professor
- Ms. Marcille Sewell, Lecturer/Practicum Coordinator

**A concentration is or is not required for this major.**

- A concentration is not required for this major.

**Major courses:**

Subject Code	Course Number	Course Name	Number of Credits
PSYC	201	Introduction to General Psychology	3
PSYC	206	Applied Psychology	3
PSYC	207	Scientific Method	3
PSYC	308	Personality	3
PSYC	316	Developmental Psychology	3

PSYC	322	Elementary Statistics	3
PSYC	323	Advanced Statistics	3
PSYC	400	Experimental Psychology	3
PSYC	402	Abnormal Psychology	3
PSYC	413	Psychology of Learning	3
PSYC	416	Social Psychology	3
PSYC	422	History and Systems	3
PSYC	425	Senior Research Seminar	3
PSYC	435	Practica in Applied Psychology	3
PSYC	XXX	Psychology Elective	3
PSYC	XXX	Psychology Elective	3
PSYC	XXX	Psychology Elective	3
PSYC	XXX	Psychology Elective	3
PSYC	XXX	Psychology Elective	3

**Major Electives:**

<b>Subject Code</b>	<b>Course Number</b>	<b>Course Name</b>	<b>Number of Credits</b>
PSYC	200	Introduction to Alcohol and Drug Counseling	3
PSYC	208	Health Psychology	3
PSYC	209	Cross-Cultural Psychology	3
PSYC	216	Psychology of Gender	3
PSYC	300	Neuropsychology	3
PSYC	301	Black Psychology	3
PSYC	303	Organizational & Industrial Psychology	3
PSYC	304	Forensic Psychology	3
PSYC	307	Language Development	3
PSYC	309	Assessment of Alcohol and Drug Addiction	3
PSYC	318	Intellectual and Related Disabilities	3
PSYC	319	Psychology of Adolescence	3
PSYC	320	Psychology of Adulthood and Aging	3
PSYC	345	Cognitive Psychology	3
PSYC	403	GRE Prep for Psychology: Verbal and Writing	1
PSYC	405	GRE Prep for Psychology: Math and Psychology	1
PSYC	406	Multi-Cultural Counseling	3
PSYC	407	Alcohol and Drug Counseling II	3
PSYC	408	Treatment Planning and Relapse Prevention for Alcohol and Drug Addiction	3
PSYC	409	Professional, Legal, and Ethical Responsibilities for Alcohol and Drug Counselors	3
PSYC	410	Special Topics for Alcohol and Drug Counseling	3
PSYC	411	Counseling Psychology I	3
PSYC	414	Counseling Psychology II	3
PSYC	415	Special Topics Seminar in Psychology	3
PSYC	430	Individual Reading & Conference	3
PSYC	432	Independent Study	3
PSYC	436	Behavior Modification	3

**Other required courses for the major:**

Subject Code	Course Number	Course Name	Number of Credits
PSYC	191	University Seminar I	1
PSYC	192	University Seminar II	1
ENGL	101	English Composition I	3
ENGL	102	English Composition II	3
ENGL	200	Speech	3
MVSC	101	Lifetime Fitness and Wellness	2
GLOB	395	Global Societies	3
MTSC	121	College Algebra	3
HIST	101	World History to 16 <sup>th</sup> Century	3
HIST	102	World History from 16 <sup>th</sup> Century	
HIST	201	American History to 1865 (choose one)	
HIST	202	American History from 1865	
HIST	203	African-American History to 1865	
HIST	204	African-American History from 1865	
HIST	205	Themes in World History	
INFO MIS 105	101 105	Applying Computers <b>or</b> Microcomputer Applications	3
ENGL ENGL	201 205	World Literature I <b>or</b> African-American Literature I	3
ENGL ENGL	202 206	World Literature II <b>or</b> African-American Literature II	3
BIOL	103	Human Biology	4
SCCJ	101	Introduction to Sociology	3
PHIL	201	Introduction to Philosophy	3
XXXX	XXX	Foreign Language I	3
XXXX	XXX	Foreign Language II	3
XXXX	XXX	Elective	3
XXXX	XXX	Elective	3
XXXX	XXX	Elective	3
XXXX	XXX	Elective	4

**General Education Breadth courses:**

Breadth Area	Any Approved Course or list course/courses
Literature (three credits)	ENGL 201 World Literature I <b>or</b> ENGL 205 African-American Literature I
History (three credits) (choose one)	HIST 101 World History to 16 <sup>th</sup> Century HIST 102 World History from 16 <sup>th</sup> Century HIST 201 American History to 1865 HIST 202 American History from 1865 HIST 203 African-American History to 1865 HIST 204 African-American History from 1865 HIST 205 Themes in World History
Mathematics (three or four credits)	MTSC 121 College Algebra
Natural Science with Laboratory (three or four credits)	Any approved course
Social Science (three credits)	PSYC 201 Introduction to General Psychology
Arts/Humanities (two three-credit courses)	Foreign Language I Foreign Language II

### Certified Alcohol and Drug Counseling (CADC) Program Curriculum

Courses	Credits
PSYC 200 Introduction to Alcohol & Drug Counseling	3
PSYC 309 Assessment of Alcohol & Drug Addiction	3
PSYC 407 Alcohol & Drug Counseling II	3
PSYC 408 Treatment Planning & Relapse Prevention for Alcohol & Drug Addiction	3
PSYC 409 Professional, Legal & Ethical Responsibilities for Counselors	3
PSYC 410 Special Topics for Drug and Alcohol Counseling	3
PSYC 435A Practica in Applied Psychology	3
PSYC 435B Practica in Applied Psychology	3
PSYC 435C Practica in Applied Psychology	3

#### **Education**

270 hours of education credits are required.

- PSYC 200. Introduction to Alcohol and Drug Counseling (45 education credits)
- PSYC 309. Assessment of Alcohol and Drug Addiction (45 education credits)
- PSYC 407. Alcohol and Drug Counseling II (45 education credits)
- PSYC 408. Treatment Planning and Relapse Prevention for Alcohol and Drug Addiction (45 education credits)
- PSYC 409. Professional, Legal & Ethical Responsibilities for Alcohol and Drug Counselors (45 education credits)
- PSYC 410. Special Topics in Alcohol and Drug Counseling (45 education credits)

#### **Supervision**

300 hours of supervision are required with a minimum of 10 hours in each of the following domains: Screening, Assessment, and Engagement; Treatment Planning, Collaboration, and Referral; Counseling; and Professional and Ethical Responsibilities.

- PSYC 435A. Practica in Applied Psychology – CADC (100 hours)
- PSYC 435B. Practica in Applied Psychology – CADC (100 hours)
- PSYC 435C. Practica in Applied Psychology – CADC (100 hours)

#### **Employment**

Prior to sitting for the International Certification & Reciprocity Consortium (IC&RC) Examination for Alcohol and Drug Counselors, candidates must complete documented employment as an alcohol and drug counselor or supervisor. Acceptable employment is based on the applicant providing direct, primary alcohol and drug counseling to persons whose primary diagnosis is that of alcohol and/or drug addiction or providing supervision of addiction counseling. The applicant must have the primary responsibility for providing counseling in an individual and/or group setting, preparing treatment plans, documenting client progress, and be clinically supervised by an individual who is knowledgeable in addiction. Documented employment and the CADC Program can be done simultaneously. The required number of employment hours is dependent upon education level as follows:

- Bachelor's degree – 2 years (4000 hours; 100 Weeks)
- Master's degree - 1 year (2000 hours; 50 Weeks)

#### **Examination and Recertification**

The applicant must pass the International Certification & Reciprocity Consortium Examination for Alcohol and Drug Counselors. Certification must be renewed every two years to maintain professional standards and awareness of best practices. Forty hours of recertification credits are required (for example, PSYC 410 Special Topics in Alcohol and Drug Counseling).

## **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-200. INTRODUCTION TO ALCOHOL AND DRUG COUNSELING**

**3:3:0**

This course will provide an overview of the history, philosophy and trends in addiction counseling. In addition, the course will provide students with a basic understanding of drug and alcohol addiction issues, treatment planning and counseling strategies.

Prerequisites: None.

Credit, three hours.

### **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.

Prerequisites: None.

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**

This course is an examination of the scientific method and its application to the study of behavior. Methods for examining trends and patterns in human responses will be discussed. Reading and critical analysis of existing experimental literature is emphasized. The course will also make use of DSU's Blackboard Academic Suite, on which you can find supplemental notes and assignments.

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-209. CROSS-CULTURAL PSYCHOLOGY.****3:3:0**

This course provides an overview of individual biological, psychological, social, and cognitive variables as they relate to theory and research on culture. The course includes content to promote reflection on and understanding of culture at both an individual and societal/group level. In addition, this course aims to develop critical thinking.

Prerequisite: 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-301. BLACK PSYCHOLOGY.****3:3:0**

This course focuses on the study of human behavior and mental processes in the context of the African American community and the larger African diaspora. Students will examine relevant psychological issues including: African world views, social constructivism, Afrocentric/Afrocentric psychology, black identity development, and the impact of racism. Further, this course will examine the pioneering black psychologists who promulgate theories and research. Beyond covering the fundamental frameworks within Black Psychology, this course will offer a critical look at the real-life application of psychological research into the black community.

Prerequisite: PSYC-201 and Sophomore level status.

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. 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-307. LANGUAGE DEVELOPMENT.****3:3:0**

This course examines how people learn language. Students will learn about the components of the language system (speech sounds, words, rules, etc.) and the fundamental stages of processes of acquiring that system, as well as the biological bases of language. The primary focus will be on typical first language development, but atypical language development and second language learning will also be discussed.

Prerequisites: PSYC-201, PSYC-207, Junior level standing.

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-309. ASSESSMENT OF ALCOHOL AND DRUG ADDICTION****3:3:0**

This course is designed to explore the methods of assessment, diagnosis, and intervention of persons with alcohol and/or drug problems within the scope of social and human service professionals specializing in the area of substance abuse and addictions. The course addresses various stages of substance abuse and dependency, the diagnostic tools and procedures associated with identifying various stages of drug and alcohol abuse or dependence, and interventions that support the beginning, current, and on-going aspects of recovery. Students will be able to understand guidelines for client screening throughout the treatment process.

Prerequisites: PSYC 200 or current CADC.

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-318. INTELLECTUAL AND RELATED DISABILITIES.****3:3:0**

This course focuses on the history and current methods of service for people with intellectual and related disabilities, including the autism spectrum. Methods relevant to assessment, behavioral and health-care support, program and service planning, promoting self-advocacy, quality outcome measures, and regulatory compliance will be considered. Methods and techniques application to community-based services will be emphasized.

Prerequisites: PSYC-201, PSYC-316, Junior level standing.

Credit, three hours.

**PSYC-319. PSYCHOLOGY OF ADOLESCENCE.****3:3:0**

Psychology of Adolescence is an upper-level course that provides an overview of theory and research on the significant developmental milestones of adolescence and issues related to counseling and advocacy with this population. This course focuses on the interplay of physical-biological, cognitive-moral, social-emotional and socio-cultural processes operating during adolescence and their immediate and long-term implications. The course may be especially relevant for students seeking to work with adolescent populations as educators, counselors or social workers.

Prerequisites: PSYC-201, Junior level standing.

Credit, three hours.

**PSYC-320. PSYCHOLOGY OF ADULTHOOD AND AGING.****3:3:0**

Psychology of Adulthood and Aging is an upper-level course that provides an overview of theory and research on the significant developmental milestones of adulthood and aging as well as issues related to counseling and advocacy with these populations. This course focuses on the interplay of physical-biological, cognitive-moral, social-emotional and socio-cultural processes operating during adulthood and aging and their immediate and long-term implications. The course may be especially relevant for students seeking to work with older, and especially, aging populations as service-providers, counselor or social workers.

Prerequisites: PSYC-201, Junior level standing.

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 more advanced statistical concepts and procedures necessary for summarizing, organizing, interpreting, and analyzing results from more complex psychological studies and experiments. Such concepts and procedures include analysis of variance, multiple correlation and regression, non-parametric statistics, and the general linear model.

Prerequisites: PSYC-201, PSYC-322, 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 discusses topics including attention, perception, memory, language, judgment, and decision making. In addition, this course aims to develop critical thinking, problem solving, and writing skills.

Prerequisites: PSYC-201, Junior level 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 status.

Credit, three hours.

**PSYC-403. GRE PREP FOR PSYCHOLOGY: VERBAL AND WRITING****1:1:0**

This course will prepare Psychology students and students in related fields who will be applying to graduate programs in Psychology for the GRE Revised General Test. The course will have the following emphases: (1) familiarizing students with the structure of the tests; (2) building vocabulary; (3) reviewing and practicing using the skills and knowledge commonly tested; (4) learning strategies to improve performance on each component of the test; and (5) completing a wide range of practice questions. Students will complete several practice tests and practice test sections throughout the course so that they can track their improvement as well as identify areas that require further practice and study.

Prerequisites: PSYC 201, PSYC 207, one 300-level PSYC course, Junior level status, Instructor's permission.

Credit, one hour.

**PSYC-405. GRE PREP FOR PSYCHOLOGY: MATH AND PSYCHOLOGY****1:1:0**

This course will prepare Psychology students and students in related fields who will be applying to graduate programs in Psychology for the GRE Revised General Test and the GRE Subject Test in Psychology. The course will have the following emphases: (1) familiarizing students with the structure of the tests; (2) reviewing and practicing using the skills and knowledge commonly tested; (3) learning strategies to improve performance on the math and Psychology components of the tests; and (4) completing a wide range of practice questions. Students will complete several practice tests and practice test sections throughout the course so that they can track their improvement as well as identify areas that require further practice and study.

Prerequisites: PSYC 201, PSYC 207, one 300-level PSYC course, Junior level status, Instructor's permission.

Credit, one hour.

**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, PSYC-411, Junior level status.

Credit, three hours.

**PSYC-407. ALCOHOL AND DRUG COUNSELING II****3:3:0**

This course is a one semester course that provides an in-depth overview of counseling as it relates to alcohol and drug addiction recovery. Particular emphasis will be placed on client education, relapse prevention, evidence-based culturally competent counseling, documentation, and social support during recovery. This course provides 45 educational hours toward CADC certification or recertification.

Prerequisites: PSYC-200 or current CADC.

Credit, three hours.

**PSYC-408. TREATMENT PLANNING & RELAPSE PREVENTION FOR ALCOHOL & DRUG ADDICTION****3:3:0**

This course is designed to explore the educational, psychological, and social frameworks associated with prevention and relapse counseling methodology and practice. This course addresses various factors that contribute to client relapse. Additionally, this course explores strategy practices that support client well-being and the recover process.

Prerequisites: PSYC 200, PSYC 309 or current CADC.

Credit, three hours.

**PSYC 409. PROFESSIONAL, LEGAL, & ETHICAL RESPONSIBILITIES FOR ALCOHOL & DRUG COUNSELORS 3:3:0**

This course is a one semester course, which provides an in-depth overview of professional, legal and ethical responsibilities as they relate to alcohol and drug counseling. Specific emphasis will be placed on diversity, professional development, referrals, documentation, confidentiality, consent, and the professional code of ethics and standards of practice. This course provides 45 educational hours toward CADC certification or recertification.

Prerequisites: PSYC 200, PSYC 407, PSYC 309 or current CADC.

Credit, three hours.

**PSYC 410. SPECIAL TOPICS FOR ALCOHOL AND DRUG COUNSELING 3:3:0**

This course is designed to explore special topics within the ongoing process of drug and alcohol treatment. More specifically, the course is designed to enhance the student's understanding of selected topics in the area of addiction counseling, including the preparation the workforce. The selected topic will be designed to give insight into the complex fields of drug abuse, compulsive behaviors, treatment, recovery and. The course is richly supported with scholarly articles and links to provide a variety of perspectives on addiction and treatment topics

Prerequisites: PSYC 200, PSYC 309 or current CADC.

Credit, three hours.

**PSYC-411. COUNSELING PSYCHOLOGY I 3:3:0**

This course will offer students an overview of theoretical approaches to counseling and psychotherapy, including fundamental concepts, assessment, client and counselor roles, cultural relevance, and intervention strategies/techniques. In addition, the course will provide the historical perspective and various theories of counseling.

Prerequisites: PSYC-201, Junior level status.

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, MTSC-121.

Credit, three hours.

**PSYC-414. COUNSELING PSYCHOLOGY II 3:3:0**

A course designed for students to understand the various counseling modalities and theories. This will entail role-playing practice of fundamental counseling response skills with various counseling and psychotherapy approaches. Counseling approaches from the following orientations: Cognitive Therapy, Cognitive and Behavioral Therapies, Behavioral Therapy, Rational Emotive Behavioral Therapy, Rogerian Therapy, Adlerian Therapy, Psychodynamic Therapy and Psychoanalytic Therapy. In addition to individual psychotherapy, students will participate in a group counseling experience supervised by the instructor.

Prerequisites: PSYC-201, PSYC-411, Junior level status.

Credit, three hours.

**PSYC-415. SPECIAL TOPIC SEMINAR IN PSYCHOLOGY 3:3:0**

This course explores a specific topic in Psychology in great detail. Students will read and discuss the primary literature relevant to the topic. They will gain an understanding of the topic at the level necessary to conduct research, learning both the current state of knowledge and the established research methodologies in the field. Emphasis will be placed on building a knowledge base and using critical thinking to evaluate research, tie the findings of several studies together, and develop an original research proposal on the topic. A different topic will be selected each time the course is offered, with the topic announced in the previous semester. This course may be taken for credit twice.

Prerequisites: PSYC-201, PSYC-207, PSYC-322, PSYC-323, PSYC-400, MTSC 121, Junior level status.

Credit, three hours.

**PSYC-416. SOCIAL PSYCHOLOGY****3:3:0**

Social Psychology is an upper-division, three credit course which provides an overview of general theories and research on social behavior. Topics such as perception of others and the self, attraction, affiliation, helping, aggression, attitudes, influence, conformity, prejudice and discrimination, and group behavior will be included.

Prerequisites: PSYC-201, Junior level status.

Credit, three hours.

**PSYC-422. HISTORY AND SYSTEMS OF PSYCHOLOGY****3:3:0**

History and Systems of Psychology is an upper-division, three credit course which provides an overview of major ideas that have affected the development of Western psychology. Utilizing a broad historical perspective, the evolution and context of relevant ideas and scientific methods from ancient times to the founding of modern Psychology will be discussed. In addition, this course aims to develop research writing skills.

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**

In this one-semester capstone course, students will carry out the process of creating an original work of research that integrates many of the elements of prior research courses

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 level status, and written consent of the Instructor.

Credit, three 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, Junior level status, 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, Junior level status, 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, Junior level status, 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 status.

Credit, three hours.

## DEPARTMENT OF SOCIOLOGY AND CRIMINAL JUSTICE

**Chair:** Dr. Dorothy Dillard

**Professors:** Dr. Lee Streetman

**Associate Professors:** Dr. Dorothy Dillard; Dr. Kylie Parrotta; Dr. Laurin Parker

**Assistant Professors:** Dr. John Balzarini; Dr. Kevin Ralston; Dr. Anwar Ouassini

**Instructor and Retention Specialist:** Mr. Benjamin Shamburger

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, 191, 192, 200, 203, 206, 210, 303, 309, 310, 314, 322, 351, 412, 420, 435, 450, and 448. A minimum grade of "C" is required in each Sociology course.
3. Three (3) Sociology elective courses selected from a recommended list (see below).
4. A Social Science elective.

Recommended courses to satisfy Sociology 300/400 elective requirements are:

### SOCIOLOGY300/400 ELECTIVE COURSES

- SCCJ-301. Juvenile Delinquency
- SCCJ-302. Rural Sociology
- SCCJ-305. Urban Sociology
- SCCJ-306. Sociology of Religion

SCCJ-311. Law Enforcement  
SCCJ-313. Courts & Criminal Justice  
SCCJ-315. Criminal Law  
SCCJ 316. Contemporary Issues in Criminal Justice  
SCCJ-320. Political Sociology  
SCCJ-323. Advanced Statistics  
SCCJ-330. Population Analysis  
SCCJ-356. Sociology of Education  
SCCJ-380. Medical Sociology  
SCCJ-400. Program Planning & Evaluation  
SCCJ -402. Principles of Corrections  
SCCJ-405. Sociology of Sexualities  
SCCJ-406. Sociology of Law  
SCCJ 408. Sociology of Poverty  
SCCJ -415 Victimology  
SCCJ-440. Special Topics in Sociology  
SCCJ-441. Public Policy and Analysis  
SCCJ-442. Special Topics in Criminal Justice  
SCCJ-455. SCCJ Internship II

### **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.

\*\*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. IN SOCIOLOGY**  
**Effective Fall 2017**

<b>Freshman Fall Semester</b>					<b>Freshman Spring Semester</b>				
Course	Course Name	Sem	Cr	Gr	Course	Course Name	Sem	Cr	Gr
ENGL-101	English Comp I	B	3		ENGL-102	English Comp II	B	3	
SCCJ-101	Intro to Sociology	B	3		MVSC-101	Fitness and Wellness	B	2	
MTSC-xxx (100 level or higher)	Math	B	3			Foreign Lang II Elective	B	3	
	Foreign Lang I Elective	B	3			Natural Science w/lab	B	4	
PSYC-201	Intro to Gen Psych	B	3		SCCJ-103	Social Institutions	S	3	
SCCJ-191	University Seminar I	F	1		SCCJ-192	University Seminar II	S	1	
	<b>Total Credits =16</b>					<b>Total Credits=16</b>			
<b>Sophomore Fall Semester</b>					<b>Sophomore Spring Semester</b>				
Course	Course Name	Sem	Cr	Gr	Course	Course Name	Sem	Cr	Gr
SCCJ-200	Writing in the Major*	B	3		ENGL	Literature Elective 201, 202, 205 or 206	B	3	
SCCJ-203	Social Problems	F	3			Free Elective	B	3	
INFO-101	Applying Computers	B	3		HIST	History Elective 101, 102, 201, 202, 203 or 204	B	3	
PHIL-101	Critical Thinking	B	3		SCCJ 206	<b>Sociology of Culture</b>	S	3	
ENGL-200	Speech	B	3		SCCJ-210	Race & Ethnic Relations*	S	3	
	<b>Total Credits = 15</b>					<b>Total Credits=15</b>			
<b>Junior Fall Semester</b>					<b>Junior Spring Semester</b>				
Course	Course Name	Sem	Cr	Gr	Course	Course Name	Sem	Cr	Gr
SCCJ-303	Social Psychology	F	3			Social Science Elective	B	3	
SCCJ-314	Methods of Research in Sociology	F	3		SCCJ-322	Elementary Statistics for Social Research	S	3	
	Art or Humanities Elective	B	3		GLOB-395	Global Societies	B	3	
SCCJ-309	Men and Women in Society	F	3		SCCJ-310	Social Stratification	S	3	
SCCJ-351	Sociology of the Family	F	3		SCCJ-450	Internship I	B	3	
	<b>Total Credits =15</b>					<b>Total Credits=15</b>			
<b>Senior Fall Semester</b>					<b>Senior Spring Semester</b>				
Course	Course Name	Sem	Cr	Gr	Course	Course Name	Sem	Cr	Gr
SCCJ-412	Sociological Theories*	F	3		SCCJ-448	Senior Seminar**	B	3	
SCCJ-435	Social Change	F	3		SCCJ	Sociology/CJ Elective <sup>1</sup> (300 or 400 level)	B	3	
SCCJ-360	Sociology of Work	F	3		SCCJ	Sociology/CJ Elective <sup>1</sup> (300 or 400 level)	B	3	
SCCJ	Sociology/CJ Elective (300 or 400 level)	B	3			Free Elective	B	3	
	Free Elective		3			Free Elective	B	3	
	<b>Total Credits=15</b>					<b>Total Credits=15</b>			
						<b>GRAND TOTAL</b>		<b>B.S. CREDITS: 122</b>	

<sup>1</sup> See Sociology/Criminal Justice Elective Courses

### **Major in Criminal Justice**

To graduate with a Bachelor's 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, 200, 202, 311, 313, 315, 402, 415, 448, and 450, and Sociology 101, 191, 192, 210, 303, 310, 314, 322, 412, and 420. A minimum grade of "C" is required in each of the above courses.
3. Two (2) Sociology elective courses at or above the 300 level selected from a recommended list (see below).

Recommended courses to satisfy Criminal Justice elective requirements are:

#### **Criminal Justice 300/400 Electives**

SCCJ-301. Juvenile Delinquency  
SCCJ-302. Rural Sociology  
SCCJ-305. Urban Sociology  
SCCJ-306. Sociology of Religion  
SCCJ-309. Men & Women in Society  
SCCJ-320. Political Sociology  
SCCJ-323. Advanced Statistics  
SCCJ-330. Population Analysis  
SCCJ-351. Sociology of the Family  
SCCJ-356. Sociology of Education  
SCCJ-360. Sociology of Work  
SCCJ-380. Medical Sociology  
SCCJ-400. Program Planning & Evaluation  
SCCJ-405. Sociology of Sexualities  
SCCJ-406. Sociology of Law  
SCCJ 408. Sociology of Poverty  
SCCJ-435. Sociology of Change  
SCCJ-440. Special Topics in Sociology  
SCCJ-441. Public Policy and Analysis  
SCCJ-442. Special Topics in Criminal Justice  
SCCJ-455. SCCJ Internship II

### **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 Sociological 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. IN CRIMINAL JUSTICE**  
**Effective Fall 2017**

<b>Freshman Fall Semester</b>					<b>Freshman Spring Semester</b>				
<b>Course</b>	<b>Course Name</b>	<b>Sem</b>	<b>Cr</b>	<b>Gr</b>	<b>Course</b>	<b>Course Name</b>	<b>Sem</b>	<b>Cr</b>	<b>Gr</b>
ENGL-101	English Comp I	B	3		ENGL-102	English Comp II	B	3	
SCCJ-101	Intro to Sociology	B	3		PSYC-201	Intro to Gen Psych	B	3	
MTSC-xxx (100 level or above)	Math	B	3			Foreign Lang II Elective	B	3	
	Foreign Lang I Elective	B	3			Natural Science w/lab	B	4	
SCCJ-104	Intro to Criminal Justice	B	3		MVSC-101	Fitness and Wellness	B	2	
SCCJ-191	University Seminar I	F	1		SCCJ-192	University Seminar II	S	1	
	<b>Total Credits =16</b>					<b>Total Credits=16</b>			
<b>Sophomore Fall Semester</b>					<b>Sophomore Spring Semester</b>				
<b>Course</b>	<b>Course Name</b>	<b>Sem</b>	<b>Cr</b>	<b>Gr</b>	<b>Course</b>	<b>Course Name</b>	<b>Sem</b>	<b>Cr</b>	<b>Gr</b>
SCCJ-200	Writing in the Major*	B	3		ENGL	Literature Elective 201, 202, 205 or 206	B	3	
SCCJ-202	Social Deviance	F	3		SCCJ-208	Criminology	S	3	
INFO-101	Applying Computers	B	3			Free Elective	B	3	
PHIL-101	Critical Thinking	B	3		HIST	History Elective 101, 102, 201, 202, 203 or 204	B	3	
ENGL-200	Speech	B	3		SCCJ 210	Race and Ethnic Relations*	S	3	
	<b>Total Credits = 15</b>					<b>Total Credits=15</b>			
<b>Junior Fall Semester</b>					<b>Junior Spring Semester</b>				
<b>Course</b>	<b>Course Name</b>	<b>Sem</b>	<b>Cr</b>	<b>Gr</b>	<b>Course</b>	<b>Course Name</b>	<b>Sem</b>	<b>Cr</b>	<b>Gr</b>
SCCJ-303	Social Psychology	F	3		SCCJ 310	Social Stratification	S	3	
SCCJ-311	Law Enforcement	F	3		SCCJ-313	Courts and Criminal Justice	S	3	
SCCJ-314	Methods of Research in Sociology	F	3		SCCJ-322	Elementary Statistics for Social Research	S	3	
	<b>Arts or Humanities Elective</b>	B	3		SCCJ-315	Criminal Law	S	3	
GLOB-395	Global Societies	B	3		SCCJ-450	Internship	B	3	
	<b>Total Credits =15</b>					<b>Total Credits=15</b>			
<b>Senior Fall Semester</b>					<b>Senior Spring Semester</b>				
<b>Course</b>	<b>Course Name</b>	<b>Sem</b>	<b>Cr</b>	<b>Gr</b>	<b>Course</b>	<b>Course Name</b>	<b>Sem</b>	<b>Cr</b>	<b>Gr</b>
SCCJ-402	Principles of Corrections	F	3		SCCJ-448	Senior Seminar**	B	3	
SCCJ-412	Sociological Theories*	F	3		SCCJ-316	Contemporary Issues in CJ*	S	3	
SCCJ	<b>Sociology/CJ Elective<sup>2</sup> (300 or 400 level)</b>	B	3		SCCJ	Sociology/CJ Elective <sup>3</sup> (300 or 400 level)	B	3	
SCCJ-415	Victimology	F	3			<b>Free Elective</b>	B	3	
	<b>Free Elective</b>	B	3		SCCJ	Sociology/CJ Elective <sup>1</sup> (300 or 400 level)	B	3	
	<b>Total Credits=15</b>					<b>Total Credits=15</b>			
							<b>GRAND TOTAL</b>	<b>B.S. CREDITS: 122</b>	

<sup>2</sup> See Sociology/ Criminal Justice Elective Courses

<sup>3</sup> See Sociology/ Criminal Justice Elective Courses

## **SOCIOLOGY AND CRIMINAL JUSTICE (SCCJ) COURSES (37)**

### **SCCJ-101. INTRODUCTION TO SOCIOLOGY**

**3:3:0**

The purpose of this course is to expose students to the major areas of sociological research and to develop a sociological perspective. The course is a sampler of the diversity of sociological study including, socialization and culture, socioeconomic class and inequality, race and ethnicity, sexuality and gender, and globalization. By the end of this course students will have a better understanding of the ways in which individuals are influenced by a society's major institutions, structures and cultures and how they fit within a complex global web of social interconnection.

Credit, three hours.

### **SCCJ-101H. INTRODUCTION TO SOCIOLOGY -HONORS**

**3:3:0**

Development and application of Sociological concepts and perspectives concerning human groups including attention to socialization, culture, organization, stratification, and societies. This class is focused on fundamental sociological concepts and research methodology. By the end of this course students will be able to utilize sociological theories and methods to explain social patterns with a focus on social structure and culture.

Credit, three hours.

### **SCCJ-102. PRINCIPLES OF SOCIOLOGY**

**3:3:0**

This course is designed for sociology majors and examines key sociological concepts, principles, theories and methods of sociological analysis. Subject areas include culture, socialization, group dynamics, social institutions, social inequity, globalization and social change. By the end of this course students will be able to utilize sociological theories to understand social inequality, globalization, and multiculturalism. Credit, three hours.

### **SCCJ-103. SOCIAL INSTITUTIONS**

**3:3:0**

This 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. In doing so, this class will prepare students to conduct structural analyses of society, allowing them to better understand how social structure influences individual behaviors. This will include identifying major social institutions, explaining the potential functions social institutions may serve in society, and an introduction to current research. Prerequisites: SCCJ 101 or 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. Students will explore definitions of crime and how crime is measured. Students will examine inequality in the Criminal Justice System and will start to gain a global perspective.

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-200. WRITING IN THE MAJOR****3:3:0**

This course provides students with an intensive writing course designed to improve literature research and assessment skills as well as writing skills. The course design is recursive so that students learn to edit, correct and improve their written work. Students will examine professional social science articles, sharpening literature synthesis and evaluation abilities. Students will learn to write for the social science professions using various formats, including annotated bibliographies, outlines, literature reviews, and research papers.

Pre-requisites: Passed with C or better SCCJ 101, ENGL 101 and ENGL 102.

Credit, three hours.

**SCCJ-202. SOCIAL DEVIANCE****3:3:0**

The purpose of this course is to provide an overview of the sociological study of deviance, emphasizing the role that deviance plays in the creation of social disorganization. The course will explore the social construction of deviance, specifically how deviance is defined, the role the people and society play in assigning this definition, and how social control systems respond to deviance. Topics will include subcultures, the medicalization of deviance, suicide, violence, drug use, and deviant identities and careers. Students will be exposed to criminological theories and social-psychological concepts such as stigma management and labeling processes. Prerequisites: SCCJ 101 or 102 or 104.

Credit, three hours.

**SCCJ-203. SOCIAL PROBLEMS****3:3:0**

One of the central concerns of sociology is to identify and better understand the problematic and destructive aspects of a society so that we can work toward fixing these social problems. This course will expand students understanding of social problems by examining the various ways in which problems in society are socially constructed and publically framed. Students will learn to deconstruct social problems, critically examine their relevancy and validity, and develop perspectives on the potential for social change. Prerequisites: SCCJ 101 or 102.

Credit, three hours.

**SCCJ-206. CULTURAL ANTHROPOLOGY****3:3:0**

This course will expose students to common forms of cultural analysis in sociology and the study of meaning in the social world. Students will explore how individuals and groups make sense of and find meaning in the world. Empirical works will be presented that exemplify various approaches, each with a different way of accounting for those theoretical matters of concern. This course will prepare students ask sociological questions that incorporate matters of meaning and interpretation into their analysis.

Prerequisites: SCCJ 101 or 102.

Credit, three hours

**SCCJ-208. CRIMINOLOGY****3:3:0**

The course focuses on classical and contemporary theories of offending and victimization. Students will be introduced to the causes of crime and will learn to critique and apply criminological theoretical perspectives. Additional topics address the nature and extent of crime in the United States through analyses of official data, prospects of rehabilitation and policy implications.

Prerequisites: SCCJ 104.

Credit, three hours.

**SCCJ-210. RACE AND ETHNIC RELATIONS****3:3:0**

The primary purpose of this course is to examine interracial and interethnic relations. Students will gain a socio-historical understanding of race and ethnic relations in the United States. Topics will include racial and ethnic identities, prejudice and discrimination, stereotypes, migration and assimilation, colorblind racism, and white privilege. Students will examine how racial inequality is reproduced through social interactions and social institutions such as the criminal justice system.

Prerequisites: SCCJ 101 or 102.

Credit, three hours.

**SCCJ-299. TECHNOLOGY AND SOCIETY****3:3:0**

In this course, students will examine the role of technological innovation on processes of social and cultural change in a global context. Specific topics will include how past and current uses of technology yield positive and negative results, societal risks, and ethical issues. Students will analyze the relationship between technology and social problems, population trends, environment, education, and the workplace. Prerequisites: SCCJ 101 or 102 and 200.

Credit, three hours.

**SCCJ-301. JUVENILE DELINQUENCY****3:3:0**

This course examines juvenile delinquency and the juvenile justice system. The history, developments, and current issues related to juvenile delinquency and response to it are examined from a number of perspectives. Additional topics include system biases, minority disproportionate representation, and gendered responses. By the end of the course, students will be able to: describe the extent of delinquency as it varies across time and groups; define and apply theories of juvenile delinquency; and assess the construction and response to delinquency from a variety of perspectives.

Prerequisites: SCCJ 101 or 102 and 200 and 104.

Credit, three hours.

**SCCJ-302. RURAL SOCIOLOGY****3:3:0**

This course explores rurality in international and domestic contexts. Concepts and theories defining rural sociology are examined. Rural-urban differences in demographic composition, occupational structure, attitudes, and values of rural people and regional cultures are addressed. Rural services and institutions as determinants of the quality of life are discussed.

Prerequisites: SCCJ 101 or 102 and 200.

Credit, three hours.

**SCCJ-303. SOCIAL PSYCHOLOGY****3:3:0**

This course situates the study of human behavior within social context to reveal how one's feelings and actions can be influenced by other people. We will examine the processes of human interaction and the social influences of family, group membership, generic social processes, mass media, and socioeconomic status, race, gender, and sexuality on individuals and groups. Students will examine socialization, the formation and changing of attitudes, social perception, role strain, collective behavior, intergroup and intragroup relations, and generic social processes that reproduce inequality.

Prerequisites: SCCJ 101 or 102 and 200.

Credit, three hours.

**SCCJ-305. URBAN SOCIOLOGY****3:3:0**

This course focuses on the ways cities change, how and why urban development takes place, and who has the power to make decisions that affect urban life. The class examines the ways in which decisions made at the macro urban scale filter down to influence the different ways people experience city life including the ways different urban cultures operate to establish themselves within communities and interact with others. Major areas discussed in this course include the history of urbanization and suburbanization, race and ethnicity within American cities, urban decline and gentrification, community activism and power, cities and globalization, the effects of neighborhoods on culture, and the future of American cities. At the end of this course, students will be able to use urban sociological theories to explain patterns of class, race and gender based spatial inequality and critically examine unequal patterns of urban and suburban development.

Prerequisites: SCCJ 101 or 102 and 200.

Credit, three hours.

**SCCJ-306. SOCIOLOGY OF RELIGION****3:3:0**

Religion continues to be an important institution in society, both within the United States and throughout the world. This course will introduce students to the sociological study of how religion influences the lives of individuals. Particular focus will be given to the large amount of variation within religion, as one of the goals of this class is to “de-essentialize” religion on an empirical level. This course will prepare students to understand the causes & consequences of religion in society, as well as give them experience empirically engaging sensitive sociological topics.

Prerequisites: SCCJ 101 or 102 and 200.

Credit, three hours.

**SCCJ-309. 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. By the end of the semester, students will have a critical understanding of gender disparities from a global perspective.

Prerequisites: SCCJ 101 or 102 and 200 or WMGS 200

Credit, three hours.

**SCCJ-310. SOCIAL STRATIFICATION****3:3:0**

This course explores the various ways in which the unequal distribution of wealth and power in the United States influences the American experience. Specifically, the course looks at the ways in which systems of wealth inequality are maintained, how inequality is experienced and how it affects different social groups, who controls wealth and who does not and why systems of stratification matter. By the end of this course students will be able to identify different systems of stratification, the differential impacts and effects of stratification on different groups and use theories of stratification to explain the persistence of social inequality.

Prerequisites: SCCJ 101 or 102 and 200.

Credit, three hours.

**SCCJ-311. LAW ENFORCEMENT****3:3:0**

This course traces the historical roots and shaping of modern law enforcement agencies. The recruitment and retention, behavioral management and issues surrounding the practices and responsibilities of law enforcement officials are also examined. By the end of the semester, students will have been exposed to a range of professional careers in the field.

Prerequisites: SCCJ 101 or 102 and 200 and 208.

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 101 or 102 and 200 and 208.

Credit, three hours.

**SCCJ-314. METHODS OF SOCIOLOGICAL RESEARCH****3:3:0**

The purpose of this course is to introduce students to research problems, design, and procedures in sociology and criminal justice. Students will be exposed to the nature of the research process, including ethical practices and going through the IRB, and guidelines for formulating research questions and testable hypotheses. Topics will include conceptualization and operationalization of variables, sampling, qualitative and quantitative data collection, and the relationship between theory and research. Prerequisites: SCCJ 101 or 102 and 200.

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 101 or 102 and 200 and 208.

Credit, three hours.

**SCCJ-316. CONTEMPORARY ISSUES IN CRIMINAL JUSTICE****3:3:0**

The course examines current and controversial issues that permeate the modern criminal justice system. Emphasis is placed on critically examining the issues that come with passage of legislation and policies that impact citizens and criminal justice officials. Topics include in depth analyses of the U.S. Patriot Act, the implications of Three Strikes Laws and Stand Your Ground Laws, the nature of stop and frisk policies, and the impact of race, class and gender have on citizens' perceptions of the criminal justice system. This course will prepare students to critically analyze current debates and policy issues in the field. Prerequisites: SCCJ 101 or 102 and 200 and 208.

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. By the end of this course, students will have a basic understanding of statistics and how they fit into the research process.

Prerequisites: SCCJ 101 or 102 and 200 and 314.

Credit, three hours.

**SCCJ-323. ADVANCED STATISTICS****3:3:0**

A course which is devoted to inferential statistics. This course cover interval estimation and hypotheses testing for all levels of measurements. A statistical laboratory which uses the campus computer and the 'statistical package for the social sciences' (SPSS) is an integral component of the course.) By the end of the course, students will be able to do basic and more advanced statistical processes to test hypotheses and conduct their own research studies using SPSS. This course prepared students for graduate level statistics courses and is essential for students planning on entering a graduate program in Criminology, Criminal Justice, or Sociology.

Prerequisites: SCCJ 101 or 102 and 200 and 314 and 322.

Credit, three hours.

**SCCJ-330. POPULATION ANALYSIS****3:3:0**

This course examines the 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 101 or 102 and 200 and 322.

Credit, three hours.

**SCCJ-351. SOCIOLOGY OF THE FAMILY****3:3:0**

This course explores one of the central institutions of human societies; the family. The focus is on how and why families change over time, how families vary culturally from one place to another, the function of the family in society, and the ways in which different family types operate concurrently within societies. Some major themes explored in this course include, changing family dynamics and composition, the various roles of different family members, power within families, and how families are framed in society. By the end of this course students will be able to apply sociological theories to the study of families and describe and explain cultural variation in family structures based on class, race, ethnicity and gender. Prerequisites: SCCJ 101 or 102 and 200.

Credit, three hours.

**SCCJ-356. SOCIOLOGY OF EDUCATION****3:3:0**

This course will introduce students to empirical research regarding a number of topics within the sociology of education. This includes issues such as inequality, student performance, the relationship between education and the marketplace, and the school-to-prison pipeline. Students will read works from multiple theoretical standpoints, and conducted using several different methodological approaches. Students will write book reviews and other assignments designed to give them experience with literature searches, and class participation will be encouraged. This course will prepare students to understand the effects of social structure and power in relation to the consequences and meanings of education in the United States.

Prerequisites: SCCJ 101 or 102 and 200.

Credit, three hours.

**SCCJ-360. SOCIOLOGY OF WORK****3:3:0**

This course gives students an opportunity to engage the sociological literature studying work. The course will address topics such as organizational behavior, alienation, systems of control, occupational differentiation, work and leisure, and job satisfaction. More specifically, it will look at three issues: the destabilization of work and employment, the shift toward a service-based economy and away from industry, and the decline of U.S. labor unions. This course will prepare students to understand the social patterns that influence our working lives in nonobvious ways, applying sociological theories to a specific institution in society.

Prerequisites: SCCJ 101 or 102 and 200.

Credit, three hours.

**SCCJ-380. MEDICAL SOCIOLOGY****3:3:0**

A critical analysis of the American medical system, including an examination of the structure of health care delivery, interaction within medical settings, and the sociocultural factors which influence morbidity, medical service utilization, and treatment.

Prerequisites: SCCJ 101 or 102 and 200.

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 modern correctional system. This course examines the purpose of corrections and punishment, the treatment and rehabilitation of offenders under correctional supervision, problems with jails/prisons, and preparing offenders for release into the community. Additional topics address community-based corrections and probation/parole.

Prerequisites: SCCJ 311 or 313 or 315 or 316.

Credit, three hours.

**SCCJ-405. SOCIOLOGY OF SEXUALITIES****3:3:0**

This course will explore the relationship between sexuality, gender and the body in a U.S. and global context. The social construction of sexuality, sexual identities, historical trends, social movements, and current policy debates, will be covered.

Prerequisites: SCCJ 101 and SCCJ 309 or WMGS 201.

Credit, three hours.

**SCCJ-406. SOCIOLOGY OF LAW****3:3:0**

A general treatment of the social origins and consequences of the law and legal process. Special emphasis is placed on problems of legal sanctions. Review of analysis of selected areas of theory and research in the sociology of law. Topics covered will include such areas as civil litigation and the civil courts, police operations and the sociology of law and order, educational laws and the operations of educational institutions, and sociological theories of justice, and the operations of legal agencies. Some attention is paid to law and the law-like phenomena and other sanctioning mechanisms in other societies, including primitive societies, but main emphasis is on American society.

Prerequisites: SCCJ 311 or 313 or 315 or 316.

Credit, three hours.

**SCCJ 408. SOCIOLOGY OF POVERTY****3:3:0**

This course focuses on the causes and consequences of poverty. Poverty is analyzed from a sociological perspective and focuses on the structural forces shaping poverty as well as the experiences of people living in poverty. A focus on the ways major economic, political and educational institutions mitigate and exacerbate poverty. By the end of this course students will be able to use theories of stratification to understand changing poverty rates and utilize research-based evidence to develop critical arguments about poverty related policies.

Prerequisites: SCCJ 200 and SCCJ 310.

**SCCJ-409. REAL/REEL CULTURE****3:3:0**

This course will foster an understanding of human culture and how mass media including, movies, music, television, print media and the internet are affecting the construction and negotiation of social identities and culture. This course will explore how and why the mass media, especially the corporate and consumer media, portrays various identities including gender, sexuality, race, ethnicity, class, and disability and how these identities mix, swirl, reinforce and conflict with our own ideas of who we are. This course will contribute to students' abilities to develop a critical argument using research based evidence and sociological theories.

Prerequisites: SCCJ 200 and consent of the Instructor.

Credit, three hours.

**SCCJ-412. SOCIOLOGICAL THEORIES****3:3:0**

Facts never speak for themselves. Sociological analysis always involves nonfactual elements such as traditions, beliefs, and goals. This course will review many of the key social theories in contemporary sociology, classical sociology, and the intellectual traditions that linked them together. This course will help students use explicit theoretical conceptualizations as essential tools for studying and understanding society.

Prerequisites: SCCJ 314.

**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. By the end of this course, students will have a broad understanding of the role social constructs play in the victimization experience for people who are victimized, both in terms of their experience with the criminal justice system and their experience understanding and processing what occurred.

Prerequisites: SCCJ 311 or 313 or 315 or 316.

Credit, three hours.

**SCCJ-420. COMPLEX ORGANIZATIONS****3:3:0**

The general objective of the course is to examine internal and external factors which affect the behavior, performance and effectiveness of formal organizations—internal factors such as an organization's structure; its patterns of authority; channels of communications, etc., and external factors such as the environment within which the organization operates. This course will prepare students to think critically about how the organization of collective action influences the outcomes of collective action.

Prerequisites: SCCJ 314.

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. By the end of this course students will understand the socio-historical context of social change; they will be able to use theories to identify and differentiate patterns of social change and to explain when, how and why social changes occur. Prerequisites: SCCJ 200 and 322.

Credit, three hours.

**SCCJ-448. SENIOR SEMINAR****3:3:0**

This is the capstone course for sociology and criminal justice majors. In this course, students will demonstrate writing, critical thinking, information literacy, and oral presentation skills of a college graduate. The instructor will determine the topic of focus and students will complete a capstone research project where they appraise contemporary social problems, critique sociological/criminological research, use scientific findings to support a sociological argument, discuss the importance and impact of social inequality on the various social institutions and groups, and develop a critical argument using a sociological perspective.

Prerequisites: SCCJ 314 and 412; 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 Instructor 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 Instructor, in conjunction with the Field Supervisor, monitors the intern's progress and evaluates his/her work.

Prerequisites: SCCJ 200 and junior status with major or minor in Criminal Justice, and consent of the Internship Coordinator.

Credit, three hours

# COLLEGE OF BUSINESS

**Dean:** Donna Covington

## **Admissions Criteria:**

1. Admission to Delaware State University. All freshmen and transfer students admitted to DSU to pursue a degree in one of the business programs or concentrations will be admitted as a pre-business student.
2. The College of Business Advising Center will provide advisement to all students seeking admission to the College of Business.
3. Students are eligible to apply for admission to the College of Business when they have successfully completed a minimum of 45 credit hours. To be admitted to the COB students must hold an overall GPA of 2.5 and have completed the four courses listed below with a C or better.

Course	Course Number	Credits
College Algebra or Finite Math or Calculus	MTSC 125 or MTSC 225	3
Macroeconomics	ECON 201	3
Accounting I	ACCT 204	3
Microcomputer Applications	MIS 105	3

4. Transfer students who have more than 45 credit hours will submit a transcript for proof of GPA or will have one semester (equivalent to 12 semester credits) in the college of business at DSU to obtain a 2.5 GPA and meet the course requirements.

## **Admissions Process:**

1. When students meet the requirement, an application for admissions must be completed online, printed, and submitted in hard copy along with a copy of student transcript. Application forms are available on the COB website.
2. Students will be notified by letter of their acceptance into the College of Business.
3. Students who do not meet the criteria will have one semester to be in compliance with the requirements. Students will not be permitted to take advanced business courses until the minimum standards are met. Students who are not accepted into the COB will be advised by the COB Advising Center to consider degree programs in other colleges 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: Three (3) hours in which one (1) 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 (GLOB-395).
  - Lifetime Fitness and Wellness: Two (2) hours (MVSC-101).
  - American History: Three (3) hours (201, 202, 203, 204).
  - Social Science: Twelve (12) hours (Macroeconomics ECON-201, Microeconomics ECON-202, Introductory Statistics ECON-208).
  - Foreign Language: Six (6) hours.
  - Literature: Three (3) 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 Introduction to Business course (MGMT-100), Principles of Management (MGMT 300) 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.

<u>Course Name</u>	<u>Credit Hours</u>
MGMT-100 Introduction to Business	3
MGMT-300 Principles of Management	3
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-204 Principles of Accounting I	3
ACCT-205 Principles of Accounting II	3
ACCT-302 Business Law I	3
FIN-300 Managerial Finance	3
MKT-300 Principles of Marketing	3
MIS-100 Microcomputer Apps	3

5. Complete the courses required for the major or concentration, including electives, where indicated in curriculum.
  - Accounting: ACCT-305, ACCT-306, ACCT-309, 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.

### Department Minors

**Accounting, Management, and Hospitality and Tourism Management majors, as well as students with a major in the College of Arts, Humanities and Social Sciences, College of Mathematics, Natural Sciences and Technology, College of Agriculture and Related Sciences, or College of Education, Health and Public Policy may earn a minor in Business Administration (Management), Marketing, Hospitality and Tourism Management, Management Information Systems, Human Resource Management, and Entrepreneurship by taking the following courses:**

#### MINOR IN BUSINESS ADMINISTRATION

**Students may earn a minor in Management by completing 15 credit hours as specified with a grade of "C" or better.**

Course #	Course Title	Credits	Prerequisite(s)
MGMT-300	Principles of Marketing	3	Junior Standing
ACCT-201	Accounting I	3	MTSC-121
HRM-320	Human Resource Management	3	Junior Standing, MGMT-205, MGMT 300
FIN-300	Managerial Finance	3	ECON-208
MGMT-305	Management Information Systems	3	MGMT-205, MIS-105
	<b>TOTAL</b>	<b>15</b>	

#### 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)
MKT-300	Principles of Marketing	3	Junior Standing
MKT-412	Supply Chain Management	3	MGMT-205, MGMT 300, MGMT 306, MKT-300
MKT-415	Marketing Research or	3	ECON 208, MGMT-205, MGMT 300, MKT-300

MKT-320	Retail Merchandising	3	MGMT-205/MGMT-300, MKT-300
MKT-420	International Marketing <i>OR</i>	3	MGMT-205, MGMT 300, MKT-300
MKT-490	Marketing Internship	3	Approval of Department Chair
	<b>TOTAL</b>	<b>12</b>	

\* Marketing Internship can be used as a substitute for International Marketing.

#### 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	MTSC 121, MTSC 125
HTM-355	Lodging & Operations Management	3	Junior Standing
	<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-475	Networking & Telecommunications	3	MGMT-305
MGMT-305	Management Information Systems	3	MGMT-205, MGMT 300, 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.

#### MINOR IN HUMAN RESOURCE 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	ECON-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 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>	

NOTE: Outside majors will be required to take all prerequisites that are listed for the minor of choice.

### 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 "habits 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*,
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.
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>	<b><u>CLASSROOM</u></b>	<b><u>COMMUNITY</u></b>
Learning styles Goal setting Overcoming obstacles Time management Career exploration Reading as a part of life Team building skills Dress for success	Note taking and study skills Test taking skills Listening skills Reading comprehension Classroom etiquette	Local business observation of business Develop directory of business Support organizations

**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.

**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 with a letter grade (normal grading). 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:** Young Kwak

**Professors:** Katz, Ruf, Kwak

**Associate Professors:** Anakwe, Casson, Christopher, Das, Ning, Muzorewa

**Assistant Professor:** Lynda Murray-Jackson, Wade Robinson

### **ACCOUNTING MAJOR**

The major in Accounting requires thirty-three (33) 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 to succeed 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.

### **MBA-CPA 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 MBA-CPA program enables students to earn an undergraduate accounting degree and an MBA in five (5) years. The MBA-CPA program provides students with 1) the required hours and 2) review courses for students to sit for the CPA examination. Students that have a 3.0 at the end of their junior year can register for the program and have the GMAT requirement waived. For students that do not make this requirement, they can apply for the MBA-CPA in their senior year and must meet the requirement of the MBA program to be accepted.

**B.S. DEGREE IN ACCOUNTING (ACCT)**  
**Effective Fall 2017**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MGMT-191	University Seminar I <sup>1</sup>	1	MGMT-192	University Seminar II <sup>1</sup>	1
MTSC-121	College Alg./ <b>Restricted Elect</b> *	3	MTSC-125	Finite Math/ <b>Restricted Elect</b> *	3
SPSC-100	Lifetime Fitness & Wellness <sup>1</sup>	2	MIS-105	Microcomputer Applications	3
ENGL -01	English Composition I <sup>1</sup>	3	ENGL-102	English Composition II <sup>1</sup>	3
XXX-XXX	Natural Science Elective #	3	XXX-XXX	Arts and Humanities Elective I	3
MGMT-100	Introduction to Business	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
MGMT-300	Principles of Management	3	MGMT-201	Managerial Communications **	3
ENGL 200	Speech <sup>1</sup>	3	MTSC-225	Calculus for Business <sup>1</sup>	3
ACCT-204	Principles of Accounting I	3	ACCT-205	Principles of Accounting II	3
ECON-208	Introductory Statistics	3	FIN-300	Managerial Finance	3
ECON-201	Principles of Macroeconomics	3	ECON-202	Principles of Microeconomics	3
	Total Credits	15		Total Credits	15
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MGMT-325	Organizational Behavior	3	MIS -305	Management Info Systems	3
ACCT-302	Business Law I	3	ACCT-402	Business Law II	3
ACCT-305	Intermediate Accounting I	3	ACCT-306	Intermediate Accounting II	3
ACCT-303	Cost Accounting	3	ACCT-311	Individual Taxation	3
XXX-XXX	Arts and Humanities Elective II	3	MKT 300	Principles of Marketing	3
	Total Credits	15		Total Credits	15
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MGMT 306	Operations Management	3	MGMT-445	Strategic Management***	3
MGMT-440	International Management	3	ENGL XXX	World or African American Literature I or II	3
ACCT-405	Accounting Information System	3	ACCT-430	Advanced Accounting	3
ACCT-423	Auditing I	3	ACT-XXX	Accounting Elective	3
GLOB-395	Global Societies <sup>1</sup>	3	HIST XXX	World or African American History I or II	3
	Total Credits	15		Total Credits	15

**Total Credits: 121**

- <sup>1</sup> **Must receive a Grade of 'C' or better in: All COB courses (MGMT, MIS, HRM, HTM, ACCT, ECON, FIN), core Gen. Ed. courses, and Math (MTSC) courses**
- # See catalog for acceptable electives, Must have one African American and one Multicultural Experience course to meet General Education requirements
- \* Students have to receive permission of Department Chairperson and may have to take College Algebra (MTSC 121) and/or Finite (MTSC 125) in place of Restricted Elective, if unable to place directly into MTSC 225; otherwise, Restricted Elective will be used to satisfy General Education requirements during freshman year.
- \*\* Writing Intensive Course(s)
- \*\*\* Senior Capstone

**Major courses:**

Subject Code	Course Number	Course Name	Number of Credits
ACCT	204	Principles of Accounting I	3
ACCT	205	Principles of Accounting II	3
ACCT	302	Business Law I	3
ACCT	303	Cost Accounting	3
ACCT	305	Intermediate Accounting I	3
ACCT	306	Intermediate Accounting II	3
ACCT	311	Individual Taxation	3
ACCT	402	Business Law II	3
ACCT	405	Accounting Information System	3
ACCT	423	Auditing I	3
ACCT	430	Advanced Accounting	3

**Major Electives: ACCT 312 Accounting for E-Commerce Organizations****ACCT 410 International Accounting****ACCT 412 Corporate/Partnership/Estate Taxation****ACCT 427 Governmental Accounting****ACCT 432 Financial Statement Analysis****Other required course for the major:**

Subject Code	Course Number	Course Name	Number of Credits
ACCT	xxx	Accounting Elective	3

**General Education Breadth courses:**

Breadth Area	Any Approved Course or list course/courses
Literature (three credits)	ENGL-xxx Literature Elective
History (three credits)	HIST-xxx History Elective
Mathematics (three or four credits)	MTSC-121 College Algebra
Natural Science with Laboratory (three or four credits)	xx-xxx Natural Science Elective
Social Science (three credits)	xx-xxx Social Science Elective
Arts/Humanities (two three-credit courses)	xx-xxx Art/Humanities Elective

**Across-the-Curriculum (A-t-C)**

<b>Program/Major</b>		B.S. in Accounting
<b>Concentration (if applicable)</b>		
<b>Effective Date</b>		Fall 2016
<b>A-t-C Outcome</b>	<b>Course(s)</b>	<b>Course Name(s)</b>
<b>Reading</b>	MGMT 201	Managerial Communications
<b>Writing Intensive or Writing in Major (outside capstone)</b>	MGMT 201 ACCT 423	Managerial Communications Auditing
<b>Speaking – Oral Communication – Presentation</b>	MGMT 201	Managerial Communications
<b>Speaking – Oral Communication –</b>	MGMT 201	Managerial Communications

<b>Discussion</b>		
<b>Listening</b>	MGMT 201	Managerial Communications
<b>Computer Competency</b>	MIS 105	Microcomputer Applications
<b>Information Literacy</b>	MIS 305 ACCT 405	Management Information Systems Accounting Information Systems
<b>Critical Thinking/Problem Solving</b>	ACCT 302 ACCT 205 ACCT 311 MGMT 445	Business Law I Principles of Accounting II Individual Taxation Strategic Management
<b>Quantitative Reasoning</b>	ACCT 306 ACCT 307	Intermediate Accounting II Cost Accounting
<b>Multicultural</b> 6 credits (choose two)	xxxx-xxx MGMT 440	Any other approved Multicultural course International Management
<b>African-American Experience</b>	xxxx-xxx	Any approved African American Experience course
<b>Self-Evaluation</b>	MGMT 191 MGMT 192	University Seminar I University Seminar II
<b>Wellness</b>	SPSC 100	Lifetime Fitness & Wellness
<b>Global Issues</b>	MGMT 440	International Management

**Courses in Bold are the CPA review courses.**

**ACCOUNTING (ACCT) (42)**

**ACCT-204. PRINCIPLES OF 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-205. PRINCIPLES OF 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 II****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-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:** DaeRyong David Kim

**Professors:** W. Awadzi, C. Beugré, D. Kim

**Associate Professors:** J. Clarke, M. Nunlee, C. Rodriguez, P. Pinjani

**Assistant Professors:** D. Maity

**Visiting Professors:** C. Awadzi, T. Bragg, C. Fletcher, Z. Zamir

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 Analytics
- Business Economics
- Finance and Banking
- General Management
- Human Resource Management (HRM)
- Management Information Systems/Enterprise Resource Planning (MIS/ERP)
- Marketing

Through its curricular and co-curricular 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 solving-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 Analytics, Business Economics, Finance and Banking, General Management, Human Resource Management, Management Information Systems/Enterprise Resource Planning (MIS/ERP), and Marketing.

#### Business Analytics (BANL)

Students who graduate with a concentration in Business Analytics will be trained specialists having knowledge and ability in the use of data and analytics to solve business problems, to make informed decisions, and to effectively communicate possible courses of actions. The proposed concentration will also provide foundational mathematical and statistical skills, and business knowledge through core business courses offered by the COB. These skills will provide a strong foundation for a broad array of careers in business and organizational analysis, including but not limited to the following: healthcare analytics, fraud detection, transportation analytics, operational analytics, management analytics, financial analytics, and procurement analytics. The concentration in Business Analytics consists of eighteen (18) credit hours.

**Business Economics (ECON) (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 (FIN) (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 (MGMT) (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 (HRM) (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/Enterprise Resource Planning (MIS/ERP) (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 business processes and their implementation and configuration using ERP systems in an organization. The MIS concentration also focuses on business intelligence, databases and strategic impacts of information systems in organizations. Graduates of the MIS program will be prepared for graduate studies and for positions as ERP specialists, data analysts, and database administrators. 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 (MKT) (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 (HTM) (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. With a Bachelor of Science in Hospitality Management, students either pursue a general major; or concentrate in Casino Management, which provide in-depth understanding of specific area of 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.

**MANAGEMENT**  
**CONCENTRATION IN BUSINESS ANALYTICS (BANL)**  
**Fall 2017**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MGMT 191	University Seminar I <sup>1</sup>	1	MGMT 192	University Seminar II <sup>1</sup>	1
xxx-xxx	Restricted Elective *	3	xxx-xxx	Restricted Elective *	3
MVSC 101	Lifetime Fitness & Wellness <sup>1</sup>	2	XXX-XXX	Natural Science Elective <sup>#</sup>	3
ENGL 101	English Comp I <sup>1</sup>	3	ENGL 102	English Comp II <sup>1</sup>	3
MIS 105	Microcomputer Applications	3	ECON 208	Introductory Statistics	3
MGMT 100	Intro to Business	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
ACCT 204	Principles of Accounting I	3	ACCT 205	Principles of Accounting II	3
ECON 308	Statistical Analysis II	3	MIS 305	Management Info Systems	3
MTSC 225	Calculus for Business <sup>1</sup>	3	ECON 202	Principles of Microeconomics	3
ECON 201	Principles of Macroeconomics	3	ENGL 200	Speech	3
PHIL 101	Critical Thinking	3	BANL 300	Introduction to Analytics	3
	Total Credits	15		Total Credits	15
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MGMT 300	Principles of Management	3	GLOB 395	Global Societies <sup>1</sup>	3
FIN 300	Managerial Finance	3	MKT 300	Principles of Marketing	3
ENGL-XXX	World or African American Literature I or II <sup>#</sup>	3	MGMT 306	Operations Management	3
MGMT 201	Managerial Communications**	3	BANL 310	Programming for Analytics	3
BANL 380	Database for Analytics	3	BANL 381	Predictive Analytics	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	BANL 490	Analytics Capstone	3
ACCT 302	Business Law I	3	HRM 320	Personnel/HR Management	3
BANL 400	Visualization for Analytics	3	XXX-XXX	Arts & Humanities Elective	3
BANL 420	Big Data	3	HIST-XXX	World or African American History I or II <sup>#</sup>	3
	Total Credits	15		Total Credits	15

<sup>1</sup> Must receive a Grade of 'C' or better in: All COB courses (MGMT, MIS, HRM, HTM, ACCT, ECON, FIN), core Gen. Ed. courses, and Math (MTSC) courses

<sup>#</sup> See Catalog for acceptable electives & Must have one African American and one Multicultural Experience course to meet General Education requirements.

<sup>\*</sup> Students have to receive permission of Department Chairperson and may have to take College Algebra (MTSC 121) and/or Finite (MTSC 125) in place of Restricted Elective, if unable to place directly into MTSC 225; otherwise, Restricted Elective will be used to satisfy General Education requirements during freshman year.

<sup>\*\*</sup> Writing Intensive Course(s)

<sup>\*\*\*</sup> Senior Capstone

**Across-the-Curriculum (A-t-C)**

<b>Program/Major</b>		B.S. Business Administration
<b>Concentration</b>		All Concentrations for the major (Management)
<b>Effective Date</b>		Fall 2017
<b>A-t-C Outcome</b>	<b>Course(s)</b>	<b>Course Name(s)</b>
<b>Reading</b>	MGMT 201	Managerial Communications
<b>Writing Intensive or Writing in Major (outside capstone)</b>	MGMT 201	Managerial Communications
<b>Speaking – Oral Communication – Presentation</b>	MGMT 201	Managerial Communications
<b>Speaking – Oral Communication – Discussion</b>	MGMT 201	Managerial Communications
<b>Listening</b>	MGMT 201	Managerial Communications
<b>Computer Competency</b>	MIS 105 MGMT 305	Microcomputer Applications Management Information Systems
<b>Information Literacy</b>	MGMT 305	Management Information Systems
<b>Critical Thinking/Problem Solving</b>	ACCT 302 MGMT 445 BANL 300	Business Law I Strategic Management Introduction to Analytics
<b>Quantitative Reasoning</b>	MGMT 306	Operations Management
<b>Multicultural</b> 6 credits (choose two)	XXXX-XXX MGMT 440	Any other approved Multicultural course International Management
<b>African-American Experience</b>	XXX-XXX	Any approved African American Experience course
<b>Self-Evaluation</b>	PSY 201 MGMT 191 & 192	Intro to General Psychology University Seminar
<b>Wellness</b>	MVSC 101 PSY 201	Lifetime Fitness & Wellness Intro to General Psychology
<b>Global Issues</b>	MGMT 440	International Management

## **BUSINESS ANALYTICS (BANL)**

### **BANL-300. INTRODUCTION TO ANALYTICS**

**3:3:0**

This course introduces to the student the field of Business Analytics, an amalgamation of business processes, statistics, and data analysis techniques. The use of statistical and quantitative techniques on large volumes of data (Big Data) to make data-driven decision making is addressed.

Prerequisites: MGMT 100, MIS 105, and ECON 308

Credit, three hours

### **BANL-380. DATABASE FOR ANALYTICS**

**3:3:0**

This course will provide students with knowledge of database fundamentals, database access standards, and important skills to design and build up a database. The skills are structured query language (SQL), relational model, normalization, database design, data modeling, entity-relationship model, transforming data models to database designs, and so on.

Prerequisites: BANL 300 and MIS 305

Credit, three hours

### **BANL-310. PROGRAMMING FOR ANALYTICS**

**3:3:0**

The course is intended to provide students with the knowledge and understanding of using scripts and codes to solve business problems through the implementation of application and operating systems command line interface.

Prerequisites: BANL 300 and MIS 305

Credit, three hours

### **BANL-381. PREDICTIVE ANALYTICS**

**3:3:0**

This course introduces the technologies and managerial issues related to predictive analytics (PA). Students will acquire technical and managerial skills in managing and building predictive analytics applications. Emphasis is placed on learning how to derive business value from large amounts of data. Hands-on training will be provided using a variety of Predictive Analytics tools and applications. Prerequisite: BANL 300

Credit, three hours

### **BANL-400. VISUALIZATION FOR ANALYTICS**

**3:3:0**

This course will provide students with the skills necessary to display information allowing for simpler perceptual inferences and improve comprehension, memory, and decision making. Students will study techniques and algorithms for creating effective visualizations based on principles from graphic design, visual art, perceptual psychology, and cognitive science.

Prerequisites: BANL 300 and MGMT 201

Credit, three hours

### **BANL-420. BIG DATA**

**3:3:0**

This course is an introduction to the principles and techniques for big data analytics. It will cover concepts in big data basics, modelling and analysis, data mining, text mining, web mining, data warehousing, big data management, implementation, and touch on tools and applications used in extracting big data.

Prerequisites: BANL 300, and BANL 380 or MIS 470

Credit, three hours

### **BANL-490. ANALYTICS CAPSTONE**

**3:3:0**

This course is a project based terminal course for business analytics concentration. It introduces the students to real world problems and seeking solutions to these problems using their knowledge and skills acquired through coursework in business analytics.

Prerequisites: Senior Standing and BANL 400

Credit, three hours

**MANAGEMENT  
CONCENTRATION IN BUSINESS ECONOMICS (ECON)**

**Fall 2017**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MGMT-191	University Seminar I <sup>1</sup>	1	MGMT-192	University Seminar II <sup>1</sup>	1
xxx-xxx	Restricted Elective *	3	xxx-xxx	Restricted Elective *	3
MVSC-101	Lifetime Fitness & Wellness <sup>1</sup>	2	XXX-XXX	Natural Science Elective	3
ENGL-101	English Composition I <sup>1</sup>	3	ENGL-102	English Composition II <sup>1</sup>	3
MIS-105	Microcomputer Applications	3	PSYC-201	Intro. to General Psychology	3
MGMT-100	Introduction to Business	3	ECON-201	Principles of Macroeconomics	3
	Total Credits	15		Total Credits	16
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-200	Speech <sup>1</sup>	3	MGMT-201	Managerial Communications **	3
PHIL-101	Critical Thinking	3	FIN-300	Managerial Finance	3
ACCT-204	Principles of Accounting I	3	MTSC-225	Calculus for Business <sup>1</sup>	3
ECON-208	Introductory Statistics	3	ACCT-205	Principles of Accounting II	3
ECON-202	Microeconomics	3	MGMT-300	Principles of Management	3
	Total Credits	15		Total Credits	15
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ECON-308	Statistical Analysis II	3	BANL-300	Intro to Analytics	3
ENGL-XXX	World of African American Literature I or II #	3	XXX-XXX	COB Elective	3
ECON-301	Intermediate Macroeconomics	3	MGMT-306	Operations Management	3
MGMT-305	Management Information Systems	3	ECON-XXX	Economics Elective #1	3
ACCT-302	Business Law I	3	MKT-300	Principles of Marketing	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	ECON-414	Money and Banking	3
ECON-400	Managerial Economics	3	XXX-XXX	Free Elective	3
ECON-XXX	Economics Elective #2	3	XXX-XXX	Arts & Humanities Elective #	3
GLST-395	Global Societies <sup>1</sup>	3	HIST-XXX	World or African American History I or II #	3
	Total Credits	15		Total Credits	15

<sup>1</sup> **Must receive a Grade of 'C' or better in: All COB courses (MGMT, MIS, HRM, HTM, ACCT, ECON, FIN), core Gen. Ed. courses, and Math (MTSC) courses**

# See catalog for acceptable electives, Must have one African American and one Multicultural Experience course to meet General Education requirements.

\* Students have to receive permission of Department Chairperson and may have to take College Algebra (MTSC 121) and/or Finite (MTSC 125) in place of Restricted Elective, if unable to place directly into MTSC 225; otherwise, Restricted Elective will be used to satisfy General Education requirements during freshman year.

\*\* Writing Intensive Course(s)

\*\*\* Senior Capstone

### Across-the-Curriculum (A-t-C)

<b>Program/Major</b>		B.S. Business Administration
<b>Concentration</b>		All Concentrations for the major (Management)
<b>Effective Date</b>		Fall 2017
<b>A-t-C Outcome</b>	<b>Course(s)</b>	<b>Course Name(s)</b>
<b>Reading</b>	MGMT 201	Managerial Communications
<b>Writing Intensive or Writing in Major (outside capstone)</b>	MGMT 201	Managerial Communications
<b>Speaking – Oral Communication – Presentation</b>	MGMT 201	Managerial Communications
<b>Speaking – Oral Communication – Discussion</b>	MGMT 201	Managerial Communications
<b>Listening</b>	MGMT 201	Managerial Communications
<b>Computer Competency</b>	MIS 105 MGMT 305	Microcomputer Applications Management Information Systems
<b>Information Literacy</b>	MGMT 305	Management Information Systems
<b>Critical Thinking/Problem Solving</b>	ACCT 302 MGMT 445 BANL 300	Business Law I Strategic Management Introduction to Analytics
<b>Quantitative Reasoning</b>	MGMT 306	Operations Management
<b>Multicultural</b> 6 credits (choose two)	XXXX-XXX MGMT 440	Any other approved Multicultural course International Management
<b>African-American Experience</b>	XXX-XXX	Any approved African American Experience course
<b>Self-Evaluation</b>	PSY 201 MGMT 191 & 192	Intro to General Psychology University Seminar
<b>Wellness</b>	MVSC 101 PSY 201	Lifetime Fitness & Wellness Intro to General Psychology
<b>Global Issues</b>	MGMT 440	International Management

## **BUSINESS ECONOMICS (ECON) (40)**

### **ECON-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: 15 hours of course work.

Credit, three hours.

### **ECON-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.

### **ECON-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.

### **ECON-303. QUANTITATIVE ECONOMIC ANALYSIS.**

**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.

Credit, three hours.

### **ECON-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. Prerequisites: MTSC-121

Credit three hours.

### **ECON-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: ECON- 208.

Credit, three hours.

### **ECON-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.

**ECON-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.

**ECON-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, ECON-202.

Credit, three hours.

**ECON-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.

**ECON-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, ECON-202.

Credit, three hours.

**ECON-450. INDEPENDENT STUDY.****1-3:3:0**

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.

**ECON-460 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.

**ECON-490. INTERNSHIP.****3-6:3:0**

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.

**MANAGEMENT**  
**CONCENTRATION IN FINANCE AND BANKING (FIN)**  
**Fall 2017**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MGMT-191	University Seminar I <sup>1</sup>	1	MGMT-192	University Seminar II <sup>1</sup>	1
xxx-xxx	Restricted Elective *	3	xxx-xxx	Restricted Elective *	3
MVSC-101	Lifetime Fitness & Wellness <sup>1</sup>	2	XXX-XXX	Natural Science Elective	3
ENGL-101	English Composition I <sup>1</sup>	3	ENGL-102	English Composition II <sup>1</sup>	3
MIS-105	Microcomputer Applications	3	PSYC-201	Intro. to General Psychology	3
MGMT-100	Introduction to Business	3	ECON-201	Principles of Macroeconomics	3
	Total Credits	15		Total Credits	16
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-200	Speech <sup>1</sup>	3	MGMT-201	Managerial Communications **	3
PHIL-101	Critical Thinking	3	MTSC-225	Calculus for Business <sup>1</sup>	3
ACCT-204	Principles of Accounting I	3	ACCT-205	Principles of Accounting II	3
ECON-208	Introductory Statistics	3	FIN-300	Managerial Finance	3
ECON-202	Microeconomics	3	MGMT-300	Principles of Management	3
	Total Credits	15		Total Credits	15
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ECON-308	Statistical Analysis II	3	BANL-300	Intro to Analytics	3
ACCT-302	Business Law I	3	FIN-415	Fixed Income Markets	3
FIN-418	Investments	3	MKT-300	Principles of Marketing	3
MGMT-305	Management Info Systems	3	FIN-XXX	Finance & Banking Elective #1	3
ENGL-XXX	World or African American Literature I or II #	3	MGMT-306	Operations Management	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	FIN-449	Advanced Financial Mgmt	3
FIN-XXX	Finance & Banking Elective #2	3	XXX-XXX	Free Elective	3
FIN-420	Commercial Bank Management	3	XXX-XXX	Arts & Humanities Elective	3
GLST-395	Global Societies <sup>1</sup>	3	HIST-XXX	World or African American History I or II #	
	Total Credits	15		Total Credits	15

<sup>1</sup> **Must receive a Grade of 'C' or better in: All COB courses (MGMT, MIS, HRM, HTM, ACCT, ECON, FIN), core Gen. Ed. courses, and Math (MTSC) courses**

# See catalog for acceptable electives, Must have one African American and one Multicultural Experience course to meet General Education requirements.

\* Students have to receive permission of Department Chairperson and may have to take College Algebra (MTSC 121) and/or Finite (MTSC 125) in place of Restricted Elective, if unable to place directly into MTSC 225; otherwise, Restricted Elective will be used to satisfy General Education requirements during freshman year.

\*\* Writing Intensive Course(s)

\*\*\* Senior Capstone

**Across-the-Curriculum (A-t-C)**

<b>Program/Major</b>		B.S. Business Administration
<b>Concentration</b>		All Concentrations for the major (Management)
<b>Effective Date</b>		Fall 2017
<b>A-t-C Outcome</b>	<b>Course(s)</b>	<b>Course Name(s)</b>
<b>Reading</b>	MGMT 201	Managerial Communications
<b>Writing Intensive or Writing in Major (outside capstone)</b>	MGMT 201	Managerial Communications
<b>Speaking – Oral Communication – Presentation</b>	MGMT 201	Managerial Communications
<b>Speaking – Oral Communication – Discussion</b>	MGMT 201	Managerial Communications
<b>Listening</b>	MGMT 201	Managerial Communications
<b>Computer Competency</b>	MIS 105 MGMT 305	Microcomputer Applications Management Information Systems
<b>Information Literacy</b>	MGMT 305	Management Information Systems
<b>Critical Thinking/Problem Solving</b>	ACCT 302 MGMT 445 BANL 300	Business Law I Strategic Management Introduction to Analytics
<b>Quantitative Reasoning</b>	MGMT 306	Operations Management
<b>Multicultural</b> 6 credits (choose two)	XXXX-XXX MGMT 440	Any other approved Multicultural course International Management
<b>African-American Experience</b>	XXX-XXX	Any approved African American Experience course
<b>Self-Evaluation</b>	PSY 201 MGMT 191 & 192	Intro to General Psychology University Seminar
<b>Wellness</b>	MVSC 101 PSY 201	Lifetime Fitness & Wellness Intro to General Psychology
<b>Global Issues</b>	MGMT 440	International Management

## **FINANCE AND BANKING (FIN)**

### **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.

### **FIN-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, Sophomore Spring Term.  
Credit, three hours.

### **FIN-315. FINANCIAL MARKETS AND 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.

### **FIN-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.

### **FIN-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: Sophomore Term.  
Credit, three hours.

### **FIN-415 FIXED INCOME MARKETS**

**3:3:0**

This course provides an overview of the fixed income securities. Topics covered include bond pricing, term structure of interest rates, corporate bonds, treasury and agency securities, municipal bonds, mortgage-backed securities, asset-backed securities, collateralized debt obligations and credit default swaps, and bond portfolio investment strategies. The roles of different participants within these fixed income markets are also discussed.  
Prerequisites: FIN-300  
Credit, three hours.

**FIN-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, Junior Fall Term.

Credit, three hours.

**FIN-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.

**FIN-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.

**FIN-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.

**FIN-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.

**FIN-449 ADVANCED FINANCIAL MANAGEMENT****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, Senior Standing.

Credit, three hours.

**FIN-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.

**FIN-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.

**FIN-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.

**MANAGEMENT**  
**CONCENTRATION IN GENERAL MANAGEMENT (MGMT)**  
**Fall 2017**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MGMT 191	University Seminar I <sup>1</sup>	1	MGMT 192	University Seminar II <sup>1</sup>	1
XXX-XXX	Restricted Elective *	3	XXX-XXX	Restricted Elective *	3
MVSC 101	Lifetime Fitness & Wellness <sup>1</sup>	2	XXX-XXX	Natural Science Elective	3
ENGL 101	English Comp I <sup>1</sup>	3	ENGL 102	English Comp II <sup>1</sup>	3
MIS 105	Microcomputer Applications	3	ECON 201	Principles of Macroeconomics	3
MGMT 100	Intro to Business	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
ENGL 200	Speech <sup>1</sup>	3	MGMT 201	Managerial Communications**	3
ACCT 204	Principles of Accounting I	3	ACCT 205	Principles of Accounting II	3
MTSC 225	Calculus for Business <sup>1</sup>	3	MGMT 300	Principles of Management	3
ECON 202	Principles of Microeconomics	3	ECON 208	Introductory Statistics	3
PHIL 101	Critical Thinking	3	ENGL-XXX	World or African American Literature I or II #	3
	Total Credits	15		Total Credits	15
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MGMT 325	Organizational Behavior	3	GLOB 395	Global Societies <sup>1</sup>	3
ACCT 302	Business Law I	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
ECON 308	Statistical Analysis II	3	BANL-300	Into to Analytics	3
	Total Credits	15		Total Credits	15
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
XXX-XXX	Arts & Humanities Elective	3	MGMT 445	Strategic Management***	3
MGMT 440	International Management	3	XXX-XXX	Specific Management Requirement FIN/HTM/MKT/MIS/HRM/ACCT#2	3
XXX-XXX	Specific Management Requirement FIN/HTM/MKT/MIS/HRM/ACCT#1	3	XXX-XXX	Specific Management Requirement FIN/HTM/MKT/MIS/HRM/ACCT#3	3
MGMT xxx	General Management Requirement	3	MGMT xxx	General Management Requirement	3
MGMT xxx	General Management Requirement	3	HIST-XXX	World or African American History#	3
	Total Credits	15		Total Credits	15

<sup>1</sup> Must receive a Grade of 'C' or better in: All COB courses (MGMT, MIS, HRM, HTM, ACCT, ECON, FIN), core Gen. Ed. courses, and Math (MTSC) courses

# See catalog for acceptable electives, Must have one African American and one Multicultural Experience course to meet General Education requirements.

\* Students have to receive permission of Department Chairperson and may have to take College Algebra (MTSC 121) and/or Finite (MTSC 125) in place of Restricted Elective, if unable to place directly into MTSC 225; otherwise, Restricted Elective will be used to satisfy General Education requirements during freshman year.

\*\* Writing Intensive Course(s)

\*\*\* Senior Capstone

**Across-the-Curriculum (A-t-C)**

<b>Program/Major</b>		B.S. Business Administration
<b>Concentration</b>		All Concentrations for the major (Management)
<b>Effective Date</b>		Fall 2017
<b>A-t-C Outcome</b>	<b>Course(s)</b>	<b>Course Name(s)</b>
<b>Reading</b>	MGMT 201	Managerial Communications
<b>Writing Intensive or Writing in Major (outside capstone)</b>	MGMT 201	Managerial Communications
<b>Speaking – Oral Communication – Presentation</b>	MGMT 201	Managerial Communications
<b>Speaking – Oral Communication – Discussion</b>	MGMT 201	Managerial Communications
<b>Listening</b>	MGMT 201	Managerial Communications
<b>Computer Competency</b>	MIS 105 MGMT 305	Microcomputer Applications Management Information Systems
<b>Information Literacy</b>	MGMT 305	Management Information Systems
<b>Critical Thinking/Problem Solving</b>	ACCT 302 MGMT 445 BANL 300	Business Law I Strategic Management Introduction to Analytics
<b>Quantitative Reasoning</b>	MGMT 306	Operations Management
<b>Multicultural</b> 6 credits (choose two)	XXXX-XXX MGMT 440	Any other approved Multicultural course International Management
<b>African-American Experience</b>	XXX-XXX	Any approved African American Experience course
<b>Self-Evaluation</b>	PSY 201 MGMT 191 & 192	Intro to General Psychology University Seminar
<b>Wellness</b>	MVSC 101 PSY 201	Lifetime Fitness & Wellness Intro to General Psychology
<b>Global Issues</b>	MGMT 440	International Management

## **GENERAL MANAGEMENT (MGMT) (41)**

### **MGMT-100. INTRODUCTION TO BUSINESS**

**3:3:0**

This course is a survey course of business disciplines. It introduces the field of business to students. The course familiarizes students with the functional discipline of business including accounting, finance, human resources management, marketing and operations management. It also discusses the importance of understanding the social and economic environment in which business operates. The course also explores the role of technology and particularly information technology in managing information in business settings.

Credit, three 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: MGMT-100, ENGL-102, ENGL-200.

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; basic probability concepts; probability distributions; sampling distributions estimation; and hypothesis testing.

Prerequisites: MTSC-121.

Credit, three hours.

### **MGMT-300. PRINCIPLES OF MANAGEMENT**

**3:3:0**

Principles of Management offers an overview of the field of management. Emphasis is on modern management theories, principles and techniques of successful organization, management and operation of business activities.

Prerequisites: MGMT-100

Credit, three hours.

**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-100, 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-100, MIS-105, ECON/MGMT-208, MTSC-225.

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: MGMT-300

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-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-201 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-201, MGMT-325, ECON-308.

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: MGMT-201, MIS-305, ACCT-302, FIN-300, MKT-300.

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, MIS-305, MGMT-201, 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** **3-6:3:0**

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.

**MANAGEMENT**  
**CONCENTRATION IN HUMAN RESOURCE MANAGEMENT (HRM)**  
**Fall 2017**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MGMT 191	University Seminar I <sup>1</sup>	1	MGMT 192	University Seminar II <sup>1</sup>	1
XXX-XXX	Restricted Elective *	3	XXX-XXX	Restricted Elective *	3
MVSC 101	Lifetime Fitness & Wellness <sup>1</sup>	2	XXX-XXX	Natural Science Elective	3
ENGL 101	English Comp I <sup>1</sup>	3	ENGL 102	English Comp II <sup>1</sup>	3
MIS 105	Microcomputer Applications	3	ECON 201	Principles of Macroeconomics	3
MGMT 100	Intro to Business	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
PHIL 101	Critical Thinking	3	ENGL 200	Speech <sup>1</sup>	3
ACCT 204	Principles of Accounting I	3	ACCT 205	Principles of Accounting II	3
MTSC 225	Calculus for Business <sup>1</sup>	3	HRM 320	Personnel/HR Management	3
ECON 202	Principles of Microeconomics	3	MGMT 300	Principles of Management	3
ECON 208	Introductory Statistics	3	ECON 308	Statistical Analysis II	3
	Total Credits	15		Total Credits	15
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ACCT 302	Business Law I	3	GLOB 395	Global Societies <sup>1</sup>	3
BANL 300	Intro to Analytics	3	MGMT 201	Managerial Communications**	3
FIN 300	Managerial Finance	3	MKT 300	Principles of Marketing	3
MGMT 305	Management Info Systems	3	HRM-XXX	HRM Elective 1 #	3
MGMT 201	Managerial Communications*	3	HRM 430	Compensation & Benefits Management	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 480	Staffing and Performance Management	3
MGMT 306	Operations Management	3	XXX-XXX	HRM Elective 2 #	3
HIST XXX	World of African American History I or II #	3	ENGL-XXX	World or African American Literature I or II #	3
MIS-XXX	HR Planning and Info. Systems	3	XXX-XXX	Arts & Humanities Elective	3
	Total Credits	15		Total Credits	15

<sup>1</sup> **Must receive a Grade of 'C' or better in: All COB courses (MGMT, MIS, HRM, HTM, ACCT, ECON, FIN), core Gen. Ed. courses, and Math (MTSC) courses**

# See catalog for acceptable electives, Must have one African American and one Multicultural Experience course to meet General Education requirements.

\* Students have to receive permission of Department Chairperson and may have to take College Algebra (MTSC 121) and/or Finite (MTSC 125) in place of Restricted Elective, if unable to place directly into MTSC 225; otherwise, Restricted Elective will be used to satisfy General Education requirements during freshman year.

\*\* Writing Intensive Course(s)

\*\*\* Senior Capstone

**Across-the-Curriculum (A-t-C)**

<b>Program/Major</b>		B.S. Business Administration
<b>Concentration</b>		All Concentrations for the major (Management)
<b>Effective Date</b>		Fall 2017
<b>A-t-C Outcome</b>	<b>Course(s)</b>	<b>Course Name(s)</b>
<b>Reading</b>	MGMT 201	Managerial Communications
<b>Writing Intensive or Writing in Major (outside capstone)</b>	MGMT 201	Managerial Communications
<b>Speaking – Oral Communication – Presentation</b>	MGMT 201	Managerial Communications
<b>Speaking – Oral Communication – Discussion</b>	MGMT 201	Managerial Communications
<b>Listening</b>	MGMT 201	Managerial Communications
<b>Computer Competency</b>	MIS 105 MGMT 305	Microcomputer Applications Management Information Systems
<b>Information Literacy</b>	MGMT 305	Management Information Systems
<b>Critical Thinking/Problem Solving</b>	ACCT 302 MGMT 445 BANL 300	Business Law I Strategic Management Introduction to Analytics
<b>Quantitative Reasoning</b>	MGMT 306	Operations Management
<b>Multicultural</b> 6 credits (choose two)	XXXX-XXX MGMT 440	Any other approved Multicultural course International Management
<b>African-American Experience</b>	XXX-XXX	Any approved African American Experience course
<b>Self-Evaluation</b>	PSY 201 MGMT 191 & 192	Intro to General Psychology University Seminar
<b>Wellness</b>	MVSC 101 PSY 201	Lifetime Fitness & Wellness Intro to General Psychology
<b>Global Issues</b>	MGMT 440	International Management

## **HUMAN RESOURCES MANAGEMENT (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-300.

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: 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, HRM-320, MIS-105.

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, MIS-105.

Credit, three hours.

### **HRM-450. INDEPENDENT STUDY**

**1-3:3:0**

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: ECON/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.

**MANAGEMENT**  
**CONCENTRATION IN MANAGEMENT INFORMATION SYSTEMS (MIS)**  
**Students Enrolled Prior to Fall 2016**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MGMT 191	University Seminar I <sup>1</sup>	1	MGMT 192	University Seminar II <sup>1</sup>	1
XXX-XXX	Restricted Elective *	3	XXX-XXX	Restricted Elective *	3
MVSC 101	Lifetime Fitness & Wellness <sup>1</sup>	2	MIS 105	Microcomputer Applications	3
ENGL 101	English Comp I <sup>1</sup>	3	ENGL 102	English Comp II <sup>1</sup>	3
XXX-XXX	Natural Science Elective	3	XXX-XXX	Foreign Language I	3
MGMT 100	Intro to Business	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
XXX-XXX	Foreign Language II	3	PHIL 101 OR XXX-XXX	Critical Thinking or Foreign Language III	3
ACCT 204	Principles of Accounting I	3	ACCT 205	Principles of Accounting II	3
MTSC 225	Calculus for Business <sup>^</sup>	3	ECON 202	Princ of Microeconomics	3
ECON 201	Princ of Macroeconomics	3	ECON 208	Introductory Statistics	3
MGMT 300	Principles of Management	3	ENGL 201or ENGL205	World Literature I or African American Literature I	3
	Total Credits	15		Total Credits	15
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL 200	Speech <sup>1</sup>	3	GLOB 395	Global Societies <sup>1</sup>	3
ACCT 302	Business Law I	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 480	System Analysis & Design	3
MIS 470	Database Management Systems	3	MIS 498	Strategic Info. Systems	3
MIS 475	Networking & Telecommunications	3	XXX-XXX	COB Elective	3
MIS-XXX	MIS Elective	3	HIST 203 or HIST 204	History Elective	3
	Total Credits	15		Total Credits	15

Must receive a Grade of 'C' or better in:  
 All COB courses (MGMT, MIS, HRM, HTM, ACCT, ECON, FIN), core  
 Gen. Ed.<sup>1</sup> courses, and Math<sup>^</sup> courses  
 \*\* Senior Capstone  
 \* Writing Intensive Course(s)

<b>Total Credits: 121</b>
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**MANAGEMENT  
CONCENTRATION IN MANAGEMENT INFORMATION SYSTEMS/ENTERPRISE RESOURCE  
PLANNING (MIS/ERP)**

**Students Enrolled Fall 2016 and After**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MGMT 191	University Seminar I <sup>1</sup>	1	MGMT 192	University Seminar II <sup>1</sup>	1
XXX-XXX	Restricted Elective *	3	XXX-XXX	Restricted Elective *	3
MVSC 101	Lifetime Fitness & Wellness <sup>1</sup>	2	XXX-XXX	Natural Science	3
ENGL 101	English Comp I <sup>1</sup>	3	ENGL 102	English Comp II <sup>1</sup>	3
MIS 105	Microcomputer Applications	3	ECON 201	Principles of Macroeconomics	3
MGMT 100	Intro to Business	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
ECON 208	Introductory Statistics	3	ENGL 200	Speech	3
ACCT 204	Principles of Accounting I	3	ACCT 205	Principles of Accounting II	3
MTSC 225	Calculus for Business <sup>^</sup>	3	MIS 305	Management Info Systems	3
ECON 202	Principles of Microeconomics	3	ECON 308	Statistical Analysis II	3
PHIL 101	Critical Thinking	3	MGMT 300	Principles of Management	3
Total Credits		15	Total Credits		15
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MIS 314	Introduction to Programming	3	GLOB 395	Global Societies	3
ACCT 302	Business Law I	3	HRM 320	Personnel/HR Management	3
FIN 300	Managerial Finance	3	MKT 300	Principles of Marketing	3
BANL 300	Intro to Analytics	3	MGMT 306	Operations Management	3
MGMT 201	Managerial Communications**	3	MIS 300	Business Processes with ERPS	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 400	ERP – Master Data Configuration	3
MIS 470	Database Management Systems <sup>1</sup>	3	MIS 498	Strategic Information Systems	3
MIS-XXX	MIS/ERP Elective	3	XXX-XXX	Art & Humanities Elective	3
ENGL 201 or ENG 205	World Literature I or African American Literature # <sup>1</sup>	3	HIST XXX	World or African American History I or II #	3
Total Credits		15	Total Credits		15

<sup>1</sup> **Must receive a Grade of 'C' or better in: All COB courses (MGMT, MIS, HRM, HTM, ACCT, ECON, FIN), core Gen. Ed. courses, and Math (MTSC) courses**

# See catalog for acceptable electives, Must have one African American and one Multicultural Experience course to meet General Education requirements.

\* Students have to receive permission of Department Chairperson and may have to take College Algebra (MTSC 121) and/or Finite (MTSC 125) in place of Restricted Elective, if unable to place directly into MTSC 225; otherwise, Restricted Elective will be used to satisfy General Education requirements during freshman year.

\*\* Writing Intensive Course(s)

\*\*\* Senior Capstone

### Across-the-Curriculum (A-t-C)

<b>Program/Major</b>		B.S. Business Administration
<b>Concentration</b>		All Concentrations for the major (Management)
<b>Effective Date</b>		Fall 2017
<b>A-t-C Outcome</b>	<b>Course(s)</b>	<b>Course Name(s)</b>
<b>Reading</b>	MGMT 201	Managerial Communications
<b>Writing Intensive or Writing in Major (outside capstone)</b>	MGMT 201	Managerial Communications
<b>Speaking – Oral Communication – Presentation</b>	MGMT 201	Managerial Communications
<b>Speaking – Oral Communication – Discussion</b>	MGMT 201	Managerial Communications
<b>Listening</b>	MGMT 201	Managerial Communications
<b>Computer Competency</b>	MIS 105 MGMT 305	Microcomputer Applications Management Information Systems
<b>Information Literacy</b>	MGMT 305	Management Information Systems
<b>Critical Thinking/Problem Solving</b>	ACCT 302 MGMT 445 BANL 300	Business Law I Strategic Management Introduction to Analytics
<b>Quantitative Reasoning</b>	MGMT 306	Operations Management
<b>Multicultural</b> 6 credits (choose two)	XXXX-XXX MGMT 440	Any other approved Multicultural course International Management
<b>African-American Experience</b>	XXX-XXX	Any approved African American Experience course
<b>Self-Evaluation</b>	PSY 201 MGMT 191 & 192	Intro to General Psychology University Seminar
<b>Wellness</b>	MVSC 101 PSY 201	Lifetime Fitness & Wellness Intro to General Psychology
<b>Global Issues</b>	MGMT 440	International Management

## **MANAGEMENT INFORMATION SYSTEMS/ENTERPRISE RESOURCE PLANNING (MIS/ERP) (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-300. BUSINESS PROCESSES WITH ERP**

**3:3:0**

The purpose of this course is to provide students with an overview and understanding of business processes, current technologies, strategies, and the application of enterprise resource planning (ERP) systems in integrating business processes. The other objective is to provide students with the skills to remain current and updated in the field of Information Systems which is rapidly undergoing tremendous transformation.

Prerequisites: MGMT-100, MIS-105, MGMT-300

Credit, three hours.

### **MIS-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-100, MIS-105.

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.

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-400. ERP-MASTER DATA CONFIGURATION****3:3:0**

This course provides students with the necessary understanding and skills on how to configure ERP Master Data to help businesses align their business processes with the ERP systems they employ. The course also aims to provide students the following idea of what are the Master Data Management, who should be the people maintaining the Master Data, what are Master Data synchronization and validation, Master Data governance, what is compliance in Master Data management, and of how to run the SAP Master Data configuration.

Prerequisites: MIS-300

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: Senior Standing. MGMT-305.

Credit, three hours.

**MANAGEMENT  
CONCENTRATION IN MARKETING (MKT)**

**Fall 2017**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MGMT 191	University Seminar I <sup>1</sup>	1	MGMT 192	University Seminar II <sup>1</sup>	1
XXX-XXX	Restricted Elective *	3	XXX-XXX	Restricted Elective *	3
MVSC 101	Lifetime Fitness & Wellness <sup>1</sup>	2	XXX-XXX	Natural Science	3
ENGL 101	English Comp I <sup>1</sup>	3	ENGL 102	English Comp II <sup>1</sup>	3
MIS 105	Microcomputer Applications	3	ECON 201	Principles of Macroeconomics	3
MGMT 100	Intro to Business	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
ECON 208	Introductory Statistics	3	ENGL 200	Speech <sup>1</sup>	3
ACCT 204	Principles of Accounting I	3	ACCT 205	Principles of Accounting II	3
MTSC 225	Calculus for Business <sup>1</sup>	3	MKT 300	Principles of Marketing	3
ECON 202	Principles of Microeconomics	3	ECON 308	Statistical Analysis II	3
PHIL 101	Critical Thinking	3	MGMT 300	Principles of Management	3
	Total Credits	15		Total Credits	15
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
BANL 300	Intro to Analytics	3	GLOB 395	Global Societies <sup>1</sup>	3
MKT 315	Buyer Behavior	3	HRM 320	Personnel/HR Management	3
MGMT 201	Managerial Communications*	3	ACCT 302	Business Law I	3
FIN 300	Managerial Finance	3	MGMT 306	Operations Management	3
MGMT 305	Management Info Systems	3	MKT 407	Promotional Strategy	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	ENGL XXX	World or African American Literature I or II	3
MKT 412	Supply Chain Management	3	MKT 423	Marketing Management	3
XXX XXX	Arts & Humanities Elective #	3	MKT XXX	Marketing Elective	3
MKT 415	Marketing Research	3	HIST XXX	World or African American History	3
	Total Credits	15		Total Credits	15

<sup>1</sup> **Must receive a Grade of 'C' or better in: All COB courses (MGMT, MIS, HRM, HTM, ACCT, ECON, FIN), core Gen. Ed. courses, and Math (MTSC) courses**

# See catalog for acceptable electives, Must have one African American and one Multicultural Experience course to meet General Education requirements.

\* Students have to receive permission of Department Chairperson and may have to take College Algebra (MTSC 121) and/or Finite (MTSC 125) in place of Restricted Elective, if unable to place directly into MTSC 225; otherwise, Restricted Elective will be used to satisfy General Education requirements during freshman year.

\*\* Writing Intensive Course(s)

\*\*\* Senior Capstone

**Across-the-Curriculum (A-t-C)**

<b>Program/Major</b>		B.S. Business Administration
<b>Concentration</b>		All Concentrations for the major (Management)
<b>Effective Date</b>		Fall 2017
<b>A-t-C Outcome</b>	<b>Course(s)</b>	<b>Course Name(s)</b>
<b>Reading</b>	MGMT 201	Managerial Communications
<b>Writing Intensive or Writing in Major (outside capstone)</b>	MGMT 201	Managerial Communications
<b>Speaking – Oral Communication – Presentation</b>	MGMT 201	Managerial Communications
<b>Speaking – Oral Communication – Discussion</b>	MGMT 201	Managerial Communications
<b>Listening</b>	MGMT 201	Managerial Communications
<b>Computer Competency</b>	MIS 105 MGMT 305	Microcomputer Applications Management Information Systems
<b>Information Literacy</b>	MGMT 305	Management Information Systems
<b>Critical Thinking/Problem Solving</b>	ACCT 302 MGMT 445 BANL 300	Business Law I Strategic Management Introduction to Analytics
<b>Quantitative Reasoning</b>	MGMT 306	Operations Management
<b>Multicultural</b> 6 credits (choose two)	XXXX-XXX MGMT 440	Any other approved Multicultural course International Management
<b>African-American Experience</b>	XXX-XXX	Any approved African American Experience course
<b>Self-Evaluation</b>	PSY 201 MGMT 191 & 192	Intro to General Psychology University Seminar
<b>Wellness</b>	MVSC 101 PSY 201	Lifetime Fitness & Wellness Intro to General Psychology
<b>Global Issues</b>	MGMT 440	International Management

## **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: ECON-202, ACCT-204, PSYC-201, MIS-105.

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: 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: 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: 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-100.

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: MKT-315.

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-100, 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: MKT-300, MGMT-306, ECON-308.

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: MKT-315, ECON 308, MGMT-201.

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: 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: ECON-308, FIN-300, MKT-315, MGMT-201.

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-100, 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.

**COLLEGE OF BUSINESS**  
**MAJOR: HOSPITALITY & TOURISM MANAGEMENT**  
**(HTM)**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MGMT 191	University Seminar I <sup>1</sup>	1	MGMT 192	University Seminar II <sup>1</sup>	1
MTSC 121	College Algebra <sup>1</sup>	3	MTSC 125	Finite Mathematics	3
MVSC 101	Fitness and Wellness	2	HTM 108	Intro to Tourism Concepts*	3
ENGL 101	English Composition I <sup>1</sup>	3	ENGL 102	English Composition II <sup>1</sup>	3
HTM 100	Introduction to Hospitality Management*	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
HTM 207	Sanitation and Safety*	3	MGMT 201	Managerial Communications*	3
ACCT 204	Principles of Accounting I	3	ENGL 201 or ENGL 205-XXX	World Literature I or American Literature	3
MTSC 225	Calculus for Business <sup>1</sup>	3	ACCT 205	Principles of Accounting II	3
ECON 201	Principles of Macroeconomics	3	MGMT 208	Intro to Statistics	3
MGMT 300	Principles of Management	3	ECON 202	Principles of Microeconomics	3
			HTM 214	Internship I*	1
	Total Credits	15		Total Credits	16
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL 200	Speech <sup>1</sup>	3	GLST 395	Global Societies <sup>1</sup>	3
HTM 305	Hospitality Cost Control	3	HTM 314	Internship II*	3
HTM 311/345	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	Foreign Language I	3
			HTM-XXX	HTM Elective	3
	Total Credits	15		Total Credits	18
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	PHIL 101 OR xx-xxx	Critical Thinking OR Foreign Language III	3
XX-XXX	Foreign Language II	3			
	Total Credits	15		Total Credits	12

\*\* Senior Capstone

\* Writing Intensive Course(s)

<sup>1</sup>Must receive a 'C' or better in Gen. Ed. courses

Must receive a 'C' or better in all COB courses

**Total Credits: 122**

**COLLEGE OF BUSINESS**  
**MAJOR: HOSPITALITY & TOURISM MANAGEMENT**  
**CONCENTRATION: CASINO MANAGEMENT**  
**(HTM)**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MGMT 191	University Seminar I <sup>1</sup>	1	MGMT 192	University Seminar II <sup>1</sup>	1
MTSC 121	College Algebra <sup>1</sup>	3	MTSC 125	Finite Mathematics	3
MVSC 101	Fitness and Wellness	2	HTM 108	Intro to Tourism Concepts*	3
ENGL 101	English Composition I <sup>1</sup>	3	ENGL 102	English Composition II <sup>1</sup>	3
HTM 100	Introduction to Hospitality Management*	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
HTM 207	Sanitation and Safety*	3	MGMT 201	Managerial Communications*	3
ACCT 204	Principles of Accounting I	3	ENGL 201 or ENGL 205-XXX	World Literature I or American Literature	3
MTSC 225	Calculus for Business <sup>1</sup>	3	ACCT 205	Principles of Accounting II	3
ECON 201	Principles of Macroeconomics	3	MGMT 208	Intro to Statistics	3
MGMT 255	Principles of Management	3	ECON 202	Principles of Microeconomics	3
			HTM 214	Internship I*	1
	Total Credits	15		Total Credits	16
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL 200	Speech <sup>1</sup>	3	GLST 395	Global Societies <sup>1</sup>	3
HTM 305	Hospitality Cost Control	3	HTM 304	Casino Operations Mgmt.	3
HTM 311/345	Food Production	3	PSYC 201	Intro. to General Psychology	3
HTM 355	Lodging Operations Mgmt.	3	HTM 425	Casino Marketing	3
MKT 300	Principles of Marketing	3	XX-XXX	Foreign Language I	3
			HTM-XXX	HTM Elective	3
	Total Credits	15		Total Credits	18
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 419	Gaming Operations	3	PHIL 101 OR xx-xxx	Critical Thinking OR Foreign Language III	3
XX-XXX	Foreign Language II	3			
	Total Credits	15		Total Credits	12

\*\* Senior Capstone

\* Writing Intensive Course(s)

<sup>1</sup>Must receive a 'C' or better in Gen. Ed. courses

<b>Total Credits: 122</b>
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**Major Name: Hospitality and Tourism Management (HTM)**

**Student Learning Outcomes**

**Students will:**

1. Demonstrate knowledge and application of technology, oral and written communication competencies needed to function in hospitality and other professional settings.
2. Assess, develop and apply requisite competencies of Hospitality and Tourism Management to include accounting and finance, cost controls, event planning and management, food production and restaurant operations, sanitation and safety practices, travel and tourism planning and management/ leadership and hospitality law.
3. Analyze and evaluate and solve managerial problems that utilize quantitative reasoning, concepts and critical thinking in a global, and diverse society.
4. Evaluate leadership and ethical decision-making competencies based on standards set by the industry.
5. Gather and assess data and employ problem-solving techniques and measure information literacy concepts related to HTM.

**Faculty who currently teach in this major:**

**Dr. June E. Clarke, Associate Professor**

**Adjunct**

**Dr. Cynthia R. Mayo**

**Mrs. Ann Smith**

**Mr. Angelo Rando**

**Major courses:**

<b>Subject Code</b>	<b>Course Number</b>	<b>Course Name</b>	<b>Number of Credits</b>
HTM Courses		All courses require students to earn a C or better. Students must maintain a GPA of 2.5 or above	
Business Courses		All courses require students to earn a C or better. Students must maintain a GPA of 2.5 or above	
All Courses		All courses require students to earn a C or better	
		Senior Assessment Test for HTM major-students must earn 80 or above	

**Major Electives:**

**Other required course for the major:**

<b>Subject Code</b>	<b>Course Number</b>	<b>Course Name</b>	<b>Number of Credits</b>
HTM	405	Supervision in Hospitality and Tourism Management	3
HTM	408	Food Service Systems Management	3
HTM	418	Club Operations Management	3
HTM	462	Selected Topics	3
MGMT		Management Courses	3

**Concentration Name: Casino Management**

<b>Subject Code</b>	<b>Course Number</b>	<b>Course Name</b>	<b>Number of Credits</b>
HTM	304	Casino Operations Management	3
HTM	419	Gaming	3
HTM	425	Tourism & Casino Marketing	3

**General Education Breadth courses:**

<b>Breadth Area</b>	<b>Any Approved Course or list course/courses</b>
Literature (three credits)	ENGL 201 World Literature I or ENGL 205, African-American Literature I
History (three credits)	HIST 203, African American History t 11865, or HIST 204, African American History from 1865
Mathematics (three or four credits)	MTSC College Algebra, MTSC Finite Math, MTSC Business Calculus
Natural Science with Laboratory (three or four credits)	Natural Science Elective/lab
Social Science (there credits)	PSYC 201 Intro to General Psychology
Arts/Humanities (two three-credit courses)	Foreign Language I and 2 or PHIL 101 Critical Thinking, or Foreign Language III

**Across-the-Curriculum (A-t-C)**

<b>Program/Major</b>		Hospitality and Tourism Management (HTM)
<b>Concentration (if applicable)</b>		Casino Management
<b>Effective Date</b>		
<b>A-t-C Outcome</b>	<b>Course(s)</b>	<b>Course Name(s)</b>
<b>Reading</b>	HTM 100, HTM 108, HTM 355, HTM 490  HTM 304	Introduction to Hospitality Management Introduction to Tourism Management Lodging Operations, Event Planning and Management Casino Operations Management
<b>Writing Intensive or Writing in Major (outside capstone)</b>	HTM 100, 108 HTM 214/314 HTM 207 HTM 417 HTM 449 HTM 450	Introduction to Hospitality Management Introduction to Tourism Concepts Internship 1 and II Sanitation and Safety Hospitality Law and Legal Environment HTM Managerial Finance/accounting Event Planning and Management Managerial Communications
<b>Speaking – Oral Communication – Presentation</b>	All HTM Courses	All HTM courses include oral communication presentations, including the online courses.
<b>Listening</b>	HTM 100, HTM 108, HTM 207, HTM 355	Introduction to Hospitality Management, Introduction to Tourism Management, Sanitation and Safety, Restaurant Management
<b>Computer Competency</b>	MIS105	Microcomputer Applications
<b>Information Literacy</b>	HTM 417	Hospitality Law and Legal Environment
<b>Critical Thinking/Problem Solving</b>	HTM 108, HTM 450	Introduction to Tourism, Event Planning
<b>Quantitative Reasoning</b>	HTM 305	Cost Control
<b>Multicultural</b> 6 credits (choose two)	HTM 108 GLST 395	Introduction to Tourism Concepts Global Society

<b>African-American Experience</b>	HIST 203 or HIST 204	African American History
<b>Self-Evaluation</b>	HTM 100 HTM 305, HTM 345	Introduction to Hospitality Management Food Production Restaurant Management
<b>Wellness</b>	MVSC 102	Fitness and Wellness
<b>Global Issues</b>	HTM 108 HTM 100 GLST 395	Introduction to Hospitality Management Introduction to Tourism Management Global Societies

## **HOSPITALITY MANAGEMENT (HTM)**

### **HTM-100. INTRODUCTION TO THE HOSPITALITY MANAGEMENT**

**3:3:0**

The course provides students with the basic knowledge and concepts and career opportunities related to all aspects hospitality management. Each aspect of hospitality will be explored that includes: lodging operations, event planning and management, food services management, retail and casino management. The tracing of the hospitality industry's growth and development to present day and future trends will be explored. Hospitality support services will also be discussed: accounting, marketing, human resources, economics, decision-making, leadership, technology and challenges of today's hospitality world.

Prerequisites: None

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, marketing and management that are currently used, given economic conditions of the world. Career options and trends in international travel from a global perspective will be discussed. Practical applications, including a planned or virtual trip to specified countries are included to effectively apply the concepts to hospitality and tourism management.

Prerequisites: None

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, and 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, and 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-214. INTERNSHIP I****1:1:0**

The course requires on or 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. Three activities are required, a supervisor's evaluation, a self-evaluation and photos of internship activities. The assignments are presented in a portfolio format.

Prerequisites: Sophomore status.

Credit, one hour.

**HTM-304: CASINO MANAGEMENT OPERATIONS****3:3:0**

The course provides basic historical and current principles of developing and managing a casino, to include all aspects of operation. All departments (food and beverage, slot operations, table games, sports betting, lodging, cage, marketing, accounting, entertainment, rewards, and others related to the casino are evaluated, relative to service levels, employees, certification requirements, laws and regulations of states. Managerial opportunities will also be explored.

Prerequisites: None

Credit, three hours

**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 the mission, goals, and objectives of the hospitality operations related to lodging, foods and beverages, labor, supplies and other aspects of the cost drivers of operations. The course will feature an analysis of techniques currently used to generate revenue, analyze costs and conduct ratio analysis for decision-making.

Prerequisites: Completion of Mathematics courses

Credit, three hours.

**HTM-311. FOOD PRODUCTION MANAGEMENT****3:3:0**

The course addresses the study and preparation of foods as classified by the US food groups, their nutritional value, principles and methods of preparation, cooking presentations, holding, and service techniques. 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 trouble shoot them as they operate the University Club once a week. 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 activities are required, supervisor's evaluation, a self-evaluation and photos of internship activities. 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-345. RESTAURANT MANAGEMENT****3:3:0**

The course requires each student to participate as a manager of a full-service restaurant operation, which is the University Club. 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

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. Participation on-site of a lodging facility is required.

Prerequisites: Junior status.

Credit, three hours.

**HTM-405. SUPERVISION IN HOSPITALITY AND TOURISM MANAGEMENT-ELECTIVE****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-ELECTIVE****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-ELECTIVE****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. Case analysis, forums assessing court cases, and research related to lawmaking are included. This is a certification course. Prerequisites: Senior status

Credit, three hours.

**HTM-418. CLUB OPERATIONS/BEVERAGE MANAGEMENT- ELECTIVE****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: None

Credit, three hours.

**HTM-425 CASINO MARKETING****3:3:0**

The course introduces students to all aspects of marketing casino operations. Historical aspects, principles of marketing, global competition, diversity in marketing casino operations and future needs of the industry are discussed. Students will prepare a marketing plan for a designated casino operation. Goals, service levels, consumer behavior, cost analysis, as well as creative marketing strategies will be explored.

Prerequisites: MKT 300

Credit, three hours

**HTM-449 MANAGERIAL ACCOUNTING/FINANCE FOR HOSPITALITY MANAGEMENT****3:3:0**

The course examines the accounting and financial systems used in the management and financing of hospitality settings. An analysis is conducted of accounting and finance concepts and principles, financial statement analysis as they relate to managerial decision-making. Students will prepare and analyze income statements, balance sheets and statements of cash flow, operating and capital budgets, as well as, basic aspects of financing hospitality venues. Financial systems such as Yield Management, Average Daily Rate and REVPAR are emphasized.

Prerequisites: Acct. 204,205, HTM 305.

Credit, three hours

**HTM-462. SELECTED TOPICS.****3:3:0**

This course is an in-depth study of a topic of current interest in the Hospitality and Tourism Management areas. Topics of students' interest are evaluated and researched. Papers may be developed based on the research for presentation during Honors Week. Students may wish to conduct research or pursue topics of interest not covered in HTM courses.

Prerequisite: Senior standing.

Credit, three hours.

**HTM-490. EVENT PLANNING AND MANAGEMENT.****3:3:0**

This 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 employing business and profitability skills.

Prerequisite: HTM 305, HTM 311, Senior standing.

Credit, three hours

## AVIATION PROGRAM

The Aviation Program's webpage may be viewed at: [www.desu.edu/aviation](http://www.desu.edu/aviation) (302) 857-6713

Key leadership personnel in the Aviation Program include:

Director of Aviation Programs: Lt. Col.(Retired) Michael A. Hales / [mhales@desu.edu](mailto:mhales@desu.edu)

Assistant Director/Assistant Professor: Dr. Jose Valentini / [jvalentini@desu.edu](mailto:jvalentini@desu.edu)

Chief Flight Instructor: Mr. John Sherman / [jsherman@desu.edu](mailto:jsherman@desu.edu)

Assistant Chief Flight Instructor: Mr. Neal Thompson / [nrthompson@desu.edu](mailto:nrthompson@desu.edu)

Chief of Maintenance: Mr. John O'Connor / [jo'connor@desu.edu](mailto:jo'connor@desu.edu)

Aviation Program Secretary: Ms. Marlene Cox / [mcox@desu.edu](mailto:mcox@desu.edu)

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 executive management positions within the airlines, manufacturing, corporate and governmental agencies of the aviation industry. Curricula in the program lead to a Bachelor of Airway with concentrations in Aviation Management or Professional Pilot. Admission and continuation in the Professional Pilot option is decided at the Director of Aviation Programs/program level. Students in the Professional Pilot concentration are expected to complete the Private Pilot, Instrument, and Commercial Certifications within the first two to three years.

Charges incurred for FAA flight physicals, knowledge exams, and certification flight tests with FAA flight examiners are the responsibility of the student. Our program is approved by the State of Delaware Education Department and the Veteran's Administration for Veterans flight training.

**B.S. DEGREE IN AVIATION – PROFESSIONAL PILOT  
2016-2017**

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
ENGL-101	English Composition I **	3	ENGL 102	English Composition II**	3
AVIA-201	Basic Aircraft Systems**	3	AVIA-103	Instrument Rating**	3
AVIA-102	Private Pilot Certification	3	AVIA-103L	Instrument Rating Lab	2
AVIA-102L	Private Pilot Lab**	2	MIS 105	Microcomputer Applications	3
		Total Credits	15		
					Total Credits
					15
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PHYS 111	Intro to Physics I	3	AVIA 211	Meteorology**	3
PHYS-111	Intro to Physics I Lab	1	AVIA 211L	Meteorology Lab**	1
PSYC-201	Intro to Psychology	3	ENGL 200	Speech *	1
AVIA 201L	Commercial Pilot Lab I**	2	AVIA 202	Commercial Pilot Certification**	3
MGMT 100	Intro to Business**	3	AVIA 202L	Commercial Pilot Lab II	2
MVSC 101	Lifetime Fitness & Wellness	2	ENGL xxx	Literature I or II	3
		Total Credits	14/15		
					Total Credits
					15
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MGMT 305	Management Information Systems **	3	MGMT 201	Managerial Communications	3
XXXX -xxx	Foreign Language I	3	XXXX -xxx	Foreign Language II	3
AVIA 307	Advanced Aircraft Systems**	3	AVIA-350	Air Traffic Control**	3
AVIA 307L	Commercial Pilot Lab III**	2	AVIA-301	Multi-Engine Rating**	1
AVIA 305	Adv Aero & Aircraft Perf**	3	AVIA-361L	Multi-Engine Rating Lab**	1
GLOB 395	Global Societies	3	AVIA-310	Flight Safety ***	3
		Total Credits	17		
					Total Credits
					14
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
AVIA 317	Human Factors in Aviation**	3	AVIA-450	International Air Transport***	3
AVIA-333	Crew Resource Management**	3	AVIA - xxx	Aviation Elective**	3
MGMT 325	Organizational Behavior**	3	AVIA-489	Aviation Legislation**	3
AVIA-401	CFI-Airplane**	3	AVIA-402	CFI-Instrument**	3
AVIA-401L	CFI-Lab**	2	AVIA-431L	CFI-Instrument Lab**	1
			HIST	History Elective	3
			xxx	History Elective	
		Total Credits	14		
					Total Credits
					16

\* Writing Intensive Course(s)

\*\* Grade of "C" or better required. (including all AVIA courses)

\*\*\* Senior Capstone

Total Credits: 120/121

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

College Algebra\*\*

Meteorology\*\*

Private Pilot Certification\*\*

Private Pilot Lab\*\*

Microcomputer Applications\*\*

Instrument Rating Lab\*\*

Literature I\*

Basic Aircraft Systems\*\*

Commercial Pilot Lab 1\*\*

Literature II\*\*

Management Processes\*\*

Commercial Pilot Certification\*\*

Advanced Aircraft Systems\*\*

Commercial Pilot Lab III\*\*

Adv Aero & Aircraft Perf\*\*

Speech\*

Air Traffic Control\*

Multi Engine Rating\*\*

Multi Engine Rating Lab\*\*

Management Information Sys\*\*

Global Societies\*\*

Human Factors in Aviation\*\*

Crew Resource Management\*\*

Organizational Behavior\*\*

CFI Airplane\*\*

CFI Lab\*\*

Aviation Legislation\*\*

CFI Instrument\*\*

CFI Instrument Lab\*\*

\*\*Grade of "C" or better required in all Management Core (40/41/46/52) and Aviation Major Requirements (49)

\*\*\*Senior Capstone Course, which also satisfies the General Education Requirements.

**Concentrations: Professional Pilot OR Aviation Management****Professional Pilot: Aviation Required Courses**

<b>SUBJ Code - Course #</b>	<b>Course Name</b>	<b>Credits</b>
AVIA-201	Basic Aircraft Systems	3
AVIA-102	Private Pilot Certification	3
AVIA-102L	Private Pilot Lab	2
AVIA-103	Instrument Rating	3
AVIA-103L	Instrument Rating Lab	2
AVIA-191	University Seminar I	1
AVIA-201	Basic Aircraft Systems	3
AVIA-102	Private Pilot Certification	3
AVIA-102L	Private Pilot Lab	2
AVIA-192	University Seminar II	1
AVIA-103	Instrument Rating	3
AVIA-103L	Instrument Rating Lab	2
AVIA-201L	Commercial Pilot Lab I	2
AVIA-211	Meteorology	3
AVIA-211L	Meteorology Lab	1
AVIA-202	Commercial Pilot Certification	3
AVIA-202L	Commercial Pilot Lab II	2
AVIA-307	Advanced Aircraft Systems	3
AVIA-307L	Commercial Pilot Lab III	2
AVIA-305	Advanced Aerodynamics & Aircraft Performance	3
AVIA-350	Air Traffic Control	3
AVIA-301	Multi-Engine Rating	1
AVIA-361L	Multi-Engine Rating Lab	1
AVIA-310	Flight Safety	3
AVIA-317	Human Factors in Aviation	3
AVIA-333	Crew Resource Management	3
AVIA-401	CFI Airplane	3
AVIA-401L	CFI Lab	2
AVIA-450	International Air Transport	3
AVIA-xxx	Aviation Elective	3
AVIA-489	Aviation Legislation	3
AVIA-402	CFI-Instrument	3
AVIA-431L	CFI-I Lab	1

**Professional Pilot Concentration Electives**

<b>SUBJ Code - Course #</b>	<b>Course Name</b>	<b>Credits</b>
AVIA-113	Flight Team I	1
AVIA-114	Flight Team II	1
AVIA-213	Flight Team III	1
AVIA-214	Flight Team IV	1
AVIA-313	Flight Team V	1
AVIA-314	Flight Team VI	1
AVIA-413	Flight Team VII	1
AVIA-414	Flight Team VIII	1

**Other required courses for the Professional Pilot Concentration:**

<b>SUBJ Code - Course #</b>	<b>Course Name</b>	<b>Credits</b>
MGMT-325	Organizational Behavior	3
ENGL-327	Interpersonal Communications	3
MGMT-305	Management Information Systems	3
MGMT-100	Intro to Business	3
MIS-105	Microcomputer Applications	3
PHYS-111	Intro to Physics I	3
PHYS-111	Intro to Physics I Lab	1

**Professional Pilot: General Education Breadth courses**

<b>Breadth Area</b>	<b>Any Approved Course or list course/courses</b>
Literature (three credits)	ENGL-201/202/205/206
History (three credits)	HIST-101/102/201/202/203/204
Mathematics (three or four credits)	MTSC-121, 122
Natural Science with Laboratory (three or four credits)	AVIA-211, AVIA-211L
Social Science (three credits)	PSYC-201
Arts/Humanities (two three-credit courses)	Foreign Language 101 & 102

**Across the Curriculum:**

<b>A-t-C Outcome</b>	<b>Courses</b>
<b>Program/Major</b>	Aviation
<b>Concentration</b>	Professional Pilot
Reading	AVIA-310 Flight Safety AVIA-333 Crew Resource Management AVIA-489 Aviation Legislation
Speaking	ENGL-327 Interpersonal Communications AVIA-102L Private Pilot Lab AVIA-103L Instrument Rating Lab

	<p>AVIA-310 Flight Safety  AVIA-333 Crew Resource Management  AVIA-350 Air Traffic Control  AVIA-361L Multi-Engine Rating Lab</p>
Listening	<p>ENGL-327 Interpersonal Communications  AVIA-102L Private Pilot Lab  AVIA-103L Instrument Rating Lab  AVIA-310 Flight Safety  AVIA-333 Crew Resource Management  AVIA-350 Air Traffic Control</p>
Self-Evaluation	<p>ENGL-327 Interpersonal Communications  PSYC-201 Intro to Psychology  AVIA-450 International Air Transportation</p>
Wellness	<p>PSYC-201 Intro to Psychology  AVIA-310 Flight Safety</p>
Information Literacy	<p>MGMT-305 Management Information Systems  AVIA-102 Private Pilot Certification  AVIA-310 Flight Safety  AVIA-450 International Air Transportation  AVIA-489 Aviation Legislation  MIS-105 Microcomputer Applications</p>
Computer Competency	<p>MGMT-305 Management Information Systems  AVIA-350 Air Traffic Control  MIS-105 Microcomputer Applications</p>
Writing in Major - Outside the Capstone	<p>AVIA-310 Flight Safety</p>
Quantitative Reasoning	<p>MTSC-122 Trigonometry  PHYS-111/111L Intro to Physics I/Lab  AVIA-211/211L Aviation Meteorology/Lab  AVIA-102/102L Private Pilot Certification Course/Lab  AVIA-103/103L Instrument Rating Course/Lab  AVIA-201 Basic Aircraft Systems  AVIA-202 Commercial Pilot Cert Course  AVIA-305 Advanced Aero &amp; Aircraft Perform.  AVIA-307 Advanced Aircraft Systems  AVIA-401/401L CFI-Airplane/Flight Lab  AVIA-402/431L CFI-Instrument Course/Flight Lab</p>
Global Issues	<p>AVIA-450 International Air Transportation</p>
Critical Thinking/Problem Solving	<p>AVIA-102L Private Pilot Lab</p>

AVIA-103L	Instrument Rating Lab
AVIA-307L	Commercial Pilot Lab III
AVIA-310	Flight Safety
AVIA-317	Human Factors in Aviation
AVIA-333	Crew Resource Management
AVIA-350	Air Traffic Control
AVIA-361L	Multi-Engine Rating Lab
AVIA-401/401L	CFI-Airplane/Flight Lab
AVIA-402/431L	CFI-Instrument Course/Flight Lab

**B.S. DEGREE IN AVIATION – AVIATION MANAGEMENT  
2014-2015**

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-101	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	3	xxxx-xxx	Free Elective	3
AVIA-102L	Private Pilot Lab** (optional)	2			
	Total Credits	15-17		Total Credits	16
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
xxxx-xxx	Foreign Language I	3	ENGL-xxx	Literature I or II (201,202,205,206)*	3
AVIA-211	Meteorology	3	MGMT-100	Intro to Business**	3
AVIA-211L	Meteorology Lab	1	ECON - 208	Intro to Statistics** or	3
			MTSC-341	Probability	3
MTSC - 225	Calculus for Business & Social Sci.**	3	AVIA-310	Flight Safety*	3
ENGL -200	Speech*	3	xxxx-xxx	Foreign Language II	3
	Total Credits	13		Total Credits	16
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-204	Accounting I**	3	ACCT-205	Accounting II**	3
GLOB-395	Global Societies**	3	MGMT-305	Management Info Systems**	3
xxxx-xxx	Aviation/Business Elective	3	AVIA-350	Air Traffic Control**	3
ECON-201	Macroeconomics**	3	AVIA - 312	Operations Management**	3
	Total Credits	15		Total Credits	15
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
MGMT-201	Managerial Communications	3	AVIA-489	Aviation Legislation**	3
MGMT-325	Organizational Behavior**	3	AVIA-440	Airline Management	3
MGMT-440	International Management**	3	xxxx-xxx	Free Elective	3
	Total Credits	15		Total Credits	15

\* Writing Intensive Course(s)  
 \*\* Grade of "C" or better required.  
 \*\*\* Senior Capstone Course, which also satisfies the General Education Requirements.

Total Credits: 120-122
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The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.

**Concentration: Aviation Management****Aviation Management: Aviation Required Courses**

<b>SUBJ Code - Course #</b>	<b>Course Name</b>	<b>Credits</b>
AVIA-102	Private Pilot Certification	3
AVIA-191	University Seminar I	1
AVIA-192	University Seminar II	1
AVIA-310	Flight Safety	3
AVIA-312	Operations Management	3
AVIA-333	Crew Resource Management	3
AVIA-350	Air Traffic Control	3
AVIA-370	Airport Planning & Management	3
AVIA-440	Airline Management	3
AVIA-450	International Air Transport	3
AVIA-489	Aviation Legislation	3

**Aviation Management Concentration Electives**

<b>SUBJ Code - Course #</b>	<b>Course Name</b>	<b>Credits</b>
AVIA-113	Flight Team I	1
AVIA-114	Flight Team II	1
AVIA-213	Flight Team III	1
AVIA-214	Flight Team IV	1
AVIA-313	Flight Team V	1
AVIA-314	Flight Team VI	1
AVIA-413	Flight Team VII	1
AVIA-414	Flight Team VIII	1
AVIA-201	Basic Aircraft Systems	3
AVIA-102L	Private Pilot Lab	2
AVIA-317	Human Factors in Aviation	3

**Other required courses for the Aviation Management Concentration:**

<b>SUBJ Code - Course #</b>	<b>Course Name</b>	<b>Credits</b>
ACCT 204	Accounting I	3
ACCT 205	Accounting II	3
ECON 201	Macroeconomics	3
ECON 208	Intro to Statistics	3
ENGL 327	Interpersonal Communications	3
HRM 320	Human Resources Management	3
HRM 330	Management/Employee Relations	3
MGMT 100	Intro to Business	3
MGMT 305	Management Info Systems	3

MGMT 325	Organizational Behavior	3
MGMT 440	International Management	3
MIS 105	Microcomputer Applications	3
MKT-300	Principles of Marketing	3
MTSC-225	Calculus for Business	3

**Aviation Management General Education Breadth courses:**

<b>Breadth Area</b>	<b>Any Approved Course or list course/courses</b>
Literature (three credits)	ENGL-201/202/205/206
History (three credits)	HIST-101/102/201/202/203/204
Mathematics (three or four credits)	MTSC-121, 125
Natural Science with Laboratory (three or four credits)	Any Approved Course
Social Science (three credits)	PSYC-201
Arts/Humanities (two three-credit courses)	Foreign Language 101 & 102

**Across the Curriculum:**

<b>A-t-C Outcome</b>	<b>Courses</b>
<b>Program/Major Concentration</b>	<b>Aviation</b>
	<b>Aviation Management</b>
Reading	MGMT-440 International Management AVIA-310 Flight Safety AVIA-333 Crew Resource Management AVIA-489 Aviation Legislation
Speaking	ENGL-327 Interpersonal Communications AVIA-102L Private Pilot Lab AVIA-310 Flight Safety AVIA-333 Crew Resource Management AVIA-350 Air Traffic Control
Listening	ENGL-327 Interpersonal Communications AVIA-102L Private Pilot Lab AVIA-310 Flight Safety AVIA-333 Crew Resource Management AVIA-350 Air Traffic Control
Self-Evaluation	ENGL-327 Interpersonal Communications PSYC-201 Intro to Psychology AVIA-450 International Air Transportation
Wellness	PSYC-201 Intro to Psychology AVIA-310 Flight Safety

Information Literacy	MGMT-305 Management Information Systems AVIA-102 Private Pilot Certification AVIA-310 Flight Safety AVIA-312 Operations Management AVIA-450 International Air Transportation AVIA-489 Aviation Legislation MIS-105 Microcomputer Applications
Computer Competency	MGMT-305 Management Information Systems AVIA-350 Air Traffic Control MIS-105 Microcomputer Applications
Writing in Major - Outside the Capstone	AVIA-310 Flight Safety
Quantitative Reasoning	MTSC-125 Finite Math MTSC-225 Calc for Business & Social Sciences xxxx-xxx Natural Science with Lab ECON-201 Macroeconomics MGMT-208 Intro to Statistics ACCT-201 Accounting I ACCT-202 Accounting II MKT-300 Principles of Marketing AVIA-102/102L Private Pilot Certification Course/Lab AVIA-312 Operations Management
Global Issues	MGMT-440 International Management AVIA-450 International Air Transportation
Critical Thinking/Problem Solving	MGMT-440 International Management ACCT-202 Accounting II AVIA-102L Private Pilot Lab AVIA-310 Flight Safety AVIA-312 Operations Management AVIA-333 Crew Resource Management AVIA-350 Air Traffic Control AVIA-440 Airline Management HRM-330 Management/Employee Relations

## **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**

**2:0:3**

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 32 flight hours, dual instruction, 17 hours solo instruction and 32 hours ground instruction. Lab fee does not include FAA examiner checkride fee. Student is responsible for any FAA examiner checkride fees.

Co-requisites: AVIA-102, or consent of the Director of Aviation Programs.

Credit, two hours.

### **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**

**2:0:3**

Provides the student with the flight time and instruction to complete all maneuvers and operations required to earn the FAA Instrument Rating. Course includes 51 flight hours dual instruction and 27 hours ground instruction. Lab fee does not include FAA examiner checkride fee. Student is responsible for any FAA examiner checkride fees.

Co-requisites: AVIA-103, or consent of the Director of Aviation Programs.

Credit, two hours.

### **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, and 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****2:0:3**

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 includes 45.5 solo flight hours, 15.5 hours dual flight instruction, and 2.5 hours ground instruction.

Co-requisites: AVIA-201, or consent of the Director of Aviation Programs.

Credit, two hours

**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****2:0:2**

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 includes 16 hours dual flight instruction – Arrow, 12 hours dual instruction – Warrior, 12 hours solo – Warrior, 10 hour ground instruction

Prerequisites: AVIA-201L, or consent of the Director of Aviation Programs.

Credit, two 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.

Prerequisite: AVIA-102L

Credit, three hours.

**AVIA-307L. COMMERCIAL PILOT LAB III****2:0:3**

Provides the student with the flight time and instruction to complete all maneuvers required to earn the FAA Commercial Pilot Certificate. Course includes 16 hours dual flight instruction – Arrow, 12 hours dual flight instruction – Warrior, 12 hours solo – Warrior and 10 hours ground instruction. Lab fee does not include FAA examiner checkride fee. Student is responsible for any FAA examiner checkride fees.

Prerequisites: AVIA-202L, or consent of the Director of Aviation Programs.

Credit, two hours.

**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****1:0:1**

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 17.5 hours dual flight instruction, 11 hours ground instruction. Lab fee does not include FAA Examiner checkride fee. Student is responsible for any FAA examiner checkride fees.

Co-requisites: AVIA-301.

Credit, one hour

**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 and AVIA-202L.

Credit, three hours.

**AVIA-401L. CFI-AIRPLANE LAB****2:0:2**

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. 14.5 hours dual flight instruction – Arrow, 2.5 hours solo – Arrow, 13 hours dual flight instruction – Warrior, 17 hours ground instruction. Lab fee does not include FAA Examiner checkride fee. Student is responsible for any FAA examiner checkride fees

Prerequisites: AVIA-202L, Commercial Pilot Certification or permission of the Director of Aviation Programs.

Credit, two 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, AVIA-401L, Junior status.

Credit, three hours.

**AVIA-431L. CFI-INSTRUMENT LAB****1:0:1**

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. Course includes 20.5 hours dual flight instruction and 15.5 hours ground instruction. Lab fee does not include FAA Examiner checkride fee. Student is responsible for any FAA examiner checkride fees.

Co-requisites: AVIA-402.

Credit, one hour.

**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****1:0:1**

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. 20 hours dual flight instruction and 12.5 hours ground instruction. Lab fee does not include the FAA Examiner checkride fee. Student is responsible for any FAA examiner checkride fees.

Co-requisites: AVIA-470.

Credit, one hour.

**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 SPORT MANAGEMENT

**Department Chair:** Dr. Jan Blade

**Professor:** Dr. Li Chen

**Associate Professor:** Dr. Jan Blade, Dr. Mark Zhang, Dr. Mark Still

**Lecturer:** Mr. Maurice Suggs

### DEPARTMENTAL MISSION

The mission of the Department of Sport Management 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, enabling students to comprehend and effectively analyze current issues in sport, and make decisions and well-based judgments.
- (d) Demonstrate effective organizational and communication skills including oral, written, and interpersonal skills.
- (e) Demonstrate proficiency in using computers 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 the 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 students to actively engage in the 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 the 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 bylaws, 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: Spring 2013

Freshman Fall Semester					Freshman Spring Semester				
Course	Course Name	SEM	CR	GR	Course	Course Name	SEM	CR	GR
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	
MIS-105	*Micro-computer		3		MTSC-121	*College Algebra		3	
__-____	Natural Science		3			Approved Elective - 1		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	
	<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
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		3	
ECON-201	*Intro to Macroeconomics		3		MGMT-205				
SPSC -271	*Intro to Mgt in Sport & Rec		3		SPSC -272	*Governance & Int. Aspects of Sport		3	
	Math/Natural Science		3		SPSC -274	<sup>B</sup> *Communication in Sport		3	
					SPSC-280	*Practicum in Sport Management		2	
						Approved Elective – 2		3	
	<b>Total Credits</b>		<b>15</b>			<b>Total Credits</b>		<b>17</b>	
Junior Fall Semester					Junior Spring Semester				
Course	Course Name	SEM	CR	GR	Course	Course Name	SEM	CR	GR
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 & Behavior 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	
	<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
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	*Sports/Senior Seminar of Sport Management		3						
__-__	Approved Elective – 6		3						
	<b>Total Credits</b>		<b>15</b>			<b>Total Credits</b>		<b>12</b>	

The curriculum is formulated with national accreditation standards. \*required C/better for graduation. Students must have a 2.0 GPA to enter Pre-sport management and a 2.5 GPA to enter the formal SM program. <sup>A</sup>One of these must be in African-American and another in World; <sup>B</sup>Writing Intensive; and <sup>C</sup>Senior Capstone. The elective courses must be 100 level or above and these courses must be approved by the academic advisor.

**TOTAL CREDITS: 120**

**COACHING MANAGEMENT MINOR  
(Effective Fall 2011)**

The Department of Sport Management offers a minor in Coaching Management for undergraduate studies at DSU. The minor could be either used for the students who have enrolled in Sport Management or other majors. The minor strengthens knowledge and skills in athletic coaching and empowers students' capability in the workforce. The program is formulated with the national standards of a coaching program with the National Council for Accreditation of Coaching Education (NCACE). The minor contains 21 credit hours plus a CPR/First Aid requirement. Students must have sophomore status to enter the minor 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.

**Total Credit Hours (21)**

**Fall**

	<b>Code</b>	<b>Courses</b>	<b>Credit</b>
1	SPSC -312	Psychology of Coaching	3
2	SPSC -271	Intro to Management in Sport and Recreation	3
3	SPSC -216	Intro to Coaching	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

**Please contact the Department of Sport Management or call 302-857-6600 for more details.**

**RECREATION MANAGEMENT MINOR  
(Effective Fall 2011)**

The Department of Sport Management offers a Recreation Management Minor with the standards of accreditation guidelines by the 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, the 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 from Recreation Practicum if their major internships are in recreational sport settings verified by the minor advisor.

**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 /120/104	Foundation of Aquatics/Foundation of Racquet Activities/Foundation of Horsemanship	1
		Total	10

**Spring**

	<b>Code</b>	<b>Courses</b>	<b>Credit</b>
1	SPSC -271	Intro to Management in Sport & Recreation	3
2	SPSC -204	Methods & Materials in Recreation	3
3	SPSC -490	Recreation Practicum	3
4	SPSC -116/105	Foundation of Golf/Recreational Aerobics	1
5		Required CPR/First Aid or Equivalent	0
		Total	10

**Please contact the Department of Sport Management or call 302-857-6600 for more details.**

## **COURSE DESCRIPTIONS**

### **SPSC 104 FOUNDATION OF HORSEMANSHIP:**

**1:2:0**

This course reviews and teaches basic horsemanship and safety as it applies to the western discipline. Activities include instruction of handling, grooming, saddling, bridling, mounting, and introduction to basic riding skills at the walk, jog, and lope. Basic care and maintenance of both the horse and barn management will be presented.

Credit: 1 hour.

### **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.

Credit: 1 hour

### **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.

Credit: 1 hour

### **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.

Credit: 1 hour

### **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.

Credit: 1 hour

### **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 216 INTRODUCTION TO COACHING MANAGEMENT: 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-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 THEORY 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-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. SENIOR SEMINAR OF SPORT MANAGEMENT: 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.

# COLLEGE OF MATHEMATICS, NATURAL SCIENCES AND TECHNOLOGY

**Interim Dean:** Dr. Charlie D. Wilson

The mission of the College of Mathematics, Natural Sciences and Technology is to provide a high-quality 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 of Biological Sciences, Physics and Engineering, Computer and Information Sciences, Mathematical Sciences and Chemistry, the College offers numerous Bachelor's, Master's and Doctoral degree programs. The Doctoral programs are focused in: Applied Mathematics, 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 Optical Science Center for Applied Research (OSCAR), the Delaware Center for Neuroscience Research, and a variety of other programs are designed to engage DSU students and motivate them to high achievement in the natural sciences, computer science, mathematics, and engineering inside and outside of the classroom. The ALEKS program is a self-paced program designed to enhance incoming freshmen's understanding of some of the most fundamental concepts of mathematics and to assist them in starting their college career on-track for timely graduation (matriculation within four (4) years). Research centers, such as the Optical Science Center for Applied Research and the Applied Mathematics Research Center, involve students in forefront research and discovery. CMNST faculty and students are also involved in a state-wide initiative funded by the National Institutes of Health (NIH): the Idea Network Research Excellence of Biomedical Research Excellence (INBRE). The College also enjoys partnerships with various academic and research institutions across the nation and the world where students may pursue a specific research or educational program.

The academic programs of the College help students achieve the University's learning goals. More specifically,

- 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.
- The Academic Advisement Center is available to incoming and continuing STEM students to help them transition to the College setting at DSU and to initiate plans for a successful career.

For more information, visit: [College of Mathematics, Natural Sciences and Technology](#)

## DEPARTMENT OF BIOLOGICAL SCIENCES

**Chair and Associate Professor:** Dr. Charlie D. Wilson

**Professors:** Drs. C. Austin-Watson, H. Dhillon, F. Fondong, M. Harrington, A. Lloyd,

**Associate Professors:** Drs. M. Gitcho, H. Lawal, Y. H. Kim, S. McGary, K. Miletti-Gonzalez, M. Temburni, C. van Golen

**Assistant Professors:** Drs. A. Aikens, D. Scott, K. Hans

The Department of Biological Sciences provides a strong foundation in both traditional and modern areas of biology for students preparing for various careers biological sciences including 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.

To ensure these goals are met, all biology students must perform a research project (Capstone).

The Department offers 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 three (3) concentrations:**

- **Health Professions** – Preparation for medical, dental and other schools for the health professions.
- **Research Professions** – Preparation for graduate education and careers in research.
- **General Biology** – Preparation for technical jobs and further training in science education.

These concentrations use a common set of core courses that are highly effective for preparing students for varied careers. The combination of core and concentration-specific elective courses is designed to prepare our students for competitive careers while giving each student the flexibility for either in-depth study (specialization) or a diverse knowledge base (generalization). 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 the program.

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 strong intellectual and skill bases. 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, Forensic Biology Club, and the Biology Club provide many scientific experiences including opportunities to volunteer, an important component of a successful career.

**The B.S. in Forensic Biology:**

A degree 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 position in a forensic laboratory or to pursue advanced study in forensic science or 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, students in the Forensic Biology program are required to engage in an internship or conduct a research project, typically during the summer between the junior and senior years.

Upon acceptance to Delaware State University, and declaring Forensic Biology as your perspective major, students must earn a grade point average (GPA) of at least 3.0 during their first year to be considered part of the Forensic Biology program. Students with less than a 3.0 may be considered on a provisional basis before they may advance into the Forensic Biology curriculum. 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 concentrations within the Biological Sciences program.

Students are encouraged to participate in the department's Forensics Biology Club as well as student memberships to such professional forensic associations 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 three degree concentrations utilize electives to provide the flexibility to prepare students who are planning to attend advanced studies in graduate, research, 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 Forensic Biology degree has a biology-based core, combined with courses from partner programs across the campus, to provide the diverse skills required of an investigator. The program requires students to take courses in criminal justice, psychology, and photography in addition to meeting their General Education requirements. The degree in Forensic Biology will provide students with the theoretical background and basic laboratory skills needed to pursue a career or advanced study in forensic science-related fields. The curriculum is aligned to the requirements necessary 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 (see section on General Education requirements). In addition, all majors in Biological Sciences must complete five Biology core courses (BIOL 201, 202, (or 101-102), 210, 215, 310), a research project, seminar courses BIOL 299, 399, 499 and other required courses as well as an additional eighteen (18) credits of student-selected (*depending on their declared curriculum concentration*) elective Biology courses. These elective courses are chosen in consultation with the student's academic advisor. For specific requirements, see each curriculum.

In all curricula, students will take BIOL 201 as their initial first-year course. Students must pass BIOL-201 with a grade of "C" or better before taking the second course, BIOL 202). BIOL 101/102 may be substituted for 201/202 in some instances. The student must pass both BIOL 201 and BIOL 202 (or 101/102) 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 course, they must also have passed 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 earn a grade of "C" or better in all science and math courses taken in the college (CMNST) in order for that course to satisfy the curriculum requirements as well as any other standards defined in their chosen program. Students who

need academic help are encouraged to consult with their Instructor and Academic Advisor to identify resources provided by the university in order to facilitate their academic success.

### **MINOR IN BIOLOGY**

For a minor in Biology, eighteen (18) hours are required and are distributed as follows: Biology 101-102, 210, and six (6) hours of electives at 300 or 400 level.

### **MINOR IN FORENSIC SCIENCE**

#### **Required Courses for Minor in Forensic Science**

<u>Course #</u>	<u>Course Name</u>	<u>Course Credit</u>
BIOL-103	Human Biology	4
BIOL-107	Human Heredity	4
BIOL-225	Survey of Forensic Science	3
BIOL-255	Forensic and Investigative Biology	4
CHEM-202	<i>Forensic Chemistry</i>	4
BIOL-355	<i>or Forensic DNA Investigations</i>	4
SCCJ-104	<i>Introduction to Criminal Justice</i>	3
XXXX-xxx	Statistics	3

Students must pass all required courses with a "C" or better.

**Biology Majors:** Specific courses for a Minor in Forensic Science are as follows:

BIOL-225	Survey of Forensic Science	3
BIOL-255	Forensic and Investigative Biology	4
CHEM-202	<i>Forensic Chemistry</i>	4
BIOL-355	<i>or Forensic DNA Investigations</i>	4
SCCJ-104	<i>Introduction to Criminal Justice</i>	3

Students must pass all required courses with a "C" or better.

## B.S. DEGREE IN BIOLOGICAL SCIENCES – HEALTH PROFESSIONS

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
BIOL-201	Organisms <sup>§</sup>	4	BIOL-202	Evolution, Ecology and Diversity <sup>§</sup>	4
CHEM-101	General Chemistry I	4	CHEM-102	General Chemistry II	4
<b>ENGL-101</b>	<b>English Composition I</b>	3	<b>ENGL-102</b>	<b>English Composition II</b>	3
<b>PSYC-201</b>	<b>General Psychology</b>	3	<b>MTSC-122</b>	<b>Trigonometry</b>	3
<b>BIOL-191</b>	<b>University Seminar I</b>	1	<b>BIOL-192</b>	<b>University Seminar II</b>	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-210	Organic Chemistry I	4	CHEM-211	Organic Chemistry II	4
<b>MVSC-101</b>	<b>Fitness and Wellness</b>	2	<b>ENGL-xxx</b>	<b>Literature#</b>	3
MTSC-261	Calculus for Life Sciences	4	BIOL-321	Biostatistics	3
SCCJ-101	Introduction to Sociology	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 ( <b>FALL ONLY</b> ) <b>OR</b>	--
BIOL-307	Principles of Physiology	4	BIOL-422	Biochemical Mechanisms ( <b>SPRING ONLY</b> )	4
<b>ENGL-200</b>	<b>Speech</b>	3	<b>GLOB-395</b>	<b>Global Societies</b>	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
	<b>Arts and Humanities#</b>	3	<b>PHIL-xxx</b>	<b>Philosophy course (Humanities)</b>	3
BIOL-xxx	Biology Elective	4	BIOL-xxx	Biology Elective	4
BIOL-xxx	Biology Elective	4	<b>HIST-xxx</b>	<b>History#</b>	3
BIOL-301	Problems in Biology	--		Open Elective	3-4
	<b>OR</b>		BIOL-499	Senior Seminar ( <b>Capstone II</b> ) **	1
BIOL-451	Senior Research (Capstone I)**	2			
	Total Credits	13		Total Credits	14-15

\*\* Senior Capstone (if BIOL 301 or internship already completed, 451 can be waived)

\* Writing Intensive Course

# One of these courses must be used to meet the African American Experience requirement and at least one of the others must meet the Multicultural Experience requirement

<sup>§</sup>BIOL 101 AND 102, or their equivalents from another university, together can substitute for 201 and 202

Total Credits: 121-122
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**BIOLOGY ELECTIVES:** Students must take no fewer than 12 credits of Biology courses from the course elective list below. These are the only ones that can satisfy the Biology elective requirement for this concentration. Substitutions can be requested, under special circumstances, but require written approval of advisor and Chair in advance.

**REQUIREMENTS:** Students must take each of the five biology core courses (201, 202, 215, 210 and 310) in order and earn a “C” or higher in each before being able to progress to the next in the sequence. In order for a student to take any 300 or 400 level Biology Department course, he or she must have earned a “C” in the first four core courses (201, 202, 215, 210). These grade requirements take precedence over, and supersede, any lesser specific prerequisites of all 300 or 400 level Biology electives.

**TRANSFER CREDITS:** Students who receive transfer credit for courses that are equivalent to BIOL 101 and 102 will be considered to have met the BIOL 201 and 202 prerequisites for BIOL 215.

**SPECIAL NOTES:** For all programs and concentrations, a grade of “C” or better is required for all Biology and other 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 can be exempted from the required Senior Capstone I course. If the project was an internship at another institution, students must present their data to their advisor. 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. All majors in the department are required to successfully complete Senior Seminar (Capstone II, BIOL-499); no exceptions can be made.

Students wanting a chemistry minor should take CHEM-403 instead of BIOL-422. Students electing to take BIOL-422 will need to take another Chemistry course – Instrumental Analysis (CHEM-306) with lab is suggested.

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 121-123 hours depending on selections.

### Suggested Health Professions Electives

#### Biology Electives:

BIOL-302 Comp. Vertebrate Anatomy  
BIOL-311 Neuroscience  
BIOL-315 Behavior  
BIOL-316 Phys. of Reproduction and Development  
BIOL-317 Principles of Virology  
BIOL-322 Microbiology  
BIOL-411 Pharmacology  
BIOL-420 Immunology  
BIOL-442 Biology of Aging

#### Open Electives:

PSYC-208 Health Psychology  
PSYC-300 Neuropsychology  
PSYC-316 Developmental Psychology  
PSYC-402 Abnormal Psychology  
SCCJ-206 Cultural Anthropology  
SPSC-355 Physiology of Exercise  
SPSC-356 Biomechanics  
MTSC-251 Calculus I (instead of MTSC-261)  
MVSC-212 Medical Terminology

**A concentration is required for this major.**

**Non-course requirements for the major:** Students must complete an independent research project at some point prior to taking BIOL 499. This research project may be through a course such as BIOL 301 or BIOL 451 or as part of a research internship, either paid or volunteer.

**Major courses:**

Subject Code	Course Number	Course Name	Number of Credits
BIOL	191	University Seminar I - Biology	1
BIOL	192	University Seminar II - Biology	1
BIOL	194	Introduction to Biology Professions	1
BIOL	201	Organisms	4
BIOL	202	Evolution, Ecology and Diversity	4
BIOL	210	Genetics	4
BIOL	215	Cell Biology	4
BIOL	299	Sophomore Seminar – Scientific Literature	1
BIOL	310	Molecular Biology	4
BIOL	399	Junior Seminar – Scientific Writing	1
BIOL	422	Biological Mechanisms*	4
BIOL	451	Senior Research Project – Capstone I**	1
BIOL	499	Senior Seminar – Biological Presentation – Capstone II	1

\* May be replaced by CHEM 403

\*\* May be exempted if the student has completed a suitable research project prior to their senior year

**Major Electives:** Student must take 12 credits from the list of Biology electives

**Other required courses for the major:**

Subject Code	Course Number	Course Name	Number of Credits
CHEM	101	General Chemistry I lecture and lab	4 (3+1)
CHEM	102	General Chemistry II lecture and lab	4 (3+1)
CHEM	210	Organic Chemistry I lecture and lab	4 (3+1)
CHEM	211	Organic Chemistry II lecture and lab	4 (3+1)
MTSC	122	Trigonometry	3

**Concentration Name: Health Professions – Required Courses**

Subject Code	Course Number	Course Name	Number of Credits
BIOL	307	Principles of Physiology	4
BIOL	321	Biostatistics	3
BIOL	370	Human Anatomy	4
MTSC	261	Calculus for Life Sciences	4
PHYS	211	Fundamentals of Physics I	4
PHYS	212	Fundamentals of Physics II	4
PSYC	201	General Psychology	3
SCCJ	101	Introduction to Sociology	3

**Concentration Name: Health Professions – Biology Elective Courses**

Subject Code	Course Number	Course Name	Number of Credits
BIOL	302	Comparative Vertebrate Anatomy	4
BIOL	311	Neuroscience	4
BIOL	315	Behavior	4

BIOL	316	Physiology of Reproduction and Development	4
BIOL	317	Virology	4
BIOL	322	Microbiology	4
BIOL	375	Molecular Genetics and Genomics	4
BIOL	407	Biology of Cancer	4
BIOL	408	Pathophysiology	4
BIOL	411	Pharmacology	4
BIOL	420	Immunology	4
BIOL	421	Microbial Physiology and Ecology	4
BIOL	442	Biology of Aging	4
BIOL	470	Biotechnological Processes	4

#### General Education Breadth courses: Health Professions Concentration

Breadth Area	Any Approved Course or list course/courses
Literature (three credits)	Any approved course
History (three credits)	Any World History if African-American Literature was taken or any African-American Experience if World Literature was taken
Mathematics (three or four credits)	MTSC 122 Trigonometry
Natural Science with Laboratory (three or four credits)	CHEM 101 General Chemistry I
Social Science (three credits)	PSYC 201 General Psychology
Arts/Humanities (two three-credit courses)	Any approved Philosophy course and any other approved course

#### Across-the-Curriculum (A-t-C)

<b>Program/Major</b>		Biological Sciences
<b>Concentration (if applicable)</b>		Health Professions
<b>Effective Date</b>		Fall 2013
<b>A-t-C Outcome</b>	<b>Course(s)</b>	<b>Course Name(s)</b>
<b>Reading</b>	BIOL 201 Or BIOL 299	Organisms Sophomore Seminar Scientific Literature
<b>Writing Intensive or Writing in Major (outside capstone)</b>	BIOL 210 Or BIOL 399	Genetics Junior Seminar Scientific Writing
<b>Speaking – Oral Communication – Presentation</b>	BIOL 499	Senior Seminar
<b>Speaking – Oral Communication – Discussion</b>	BIOL 310	Molecular Biology
<b>Listening</b>	CHEM 403 or BIOL 422	Biochemistry Biochemical Mechanism
<b>Computer Competency</b>	BIOL 215	Cell Biology
<b>Information Literacy</b>	BIOL 299	Sophomore Seminar Scientific Literature
<b>Critical Thinking/Problem Solving</b>	XXXX-XXX	Any 300 level or higher Science course
<b>Quantitative Reasoning</b>	BIOL 210 BIOL 321 MTSC XXX	Genetics Biostatistics Any math department Statistics

<b>Multicultural</b> 6 credits (choose two)	ENGL 201 or 202 Or HIST 101 or 102 Or SCCJ 101 Or any World Language	World Literature I/II  World History I/II  Introduction to Sociology
<b>African-American Experience</b>	ENGL 205 or 206 Or HIST 203 or 204 Or MUSC 100 Or ART 316	African-American Literature I or II  African-American Experience I or II  African-American Music African-American Art History
<b>Self-Evaluation</b>	BIOL 194	Introduction to Biology Professions
<b>Wellness</b>	PSYC201 Or BIOL 201	Intro to Psychology Organisms
<b>Global Issues</b>	BIOL 202	Evolution/Ecology/Diversity

## B.S. DEGREE IN BIOLOGICAL SCIENCES – RESEARCH PROFESSIONS

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
BIOL-201	Organisms <sup>§</sup>	4	BIOL-202	Evolution, Ecology and Diversity <sup>§</sup>	4
CHEM-101	General Chemistry I	4	CHEM-102	General Chemistry II	4
<b>ENGL-101</b>	<b>English Composition I</b>	3	<b>ENGL-102</b>	<b>English Composition II</b>	3
	<b>Social Science</b>	3	<b>MTSC-122</b>	<b>Trigonometry</b>	3
<b>BIOL-191</b>	<b>University Seminar I</b>	1	<b>BIOL-192</b>	<b>University Seminar II</b>	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-210	Organic Chemistry I	4	CHEM-211	Organic Chemistry II	4
<b>MVSC-101</b>	<b>Fitness and Wellness</b>	2	<b>ENGL-xxx</b>	<b>Literature#</b>	3
MTSC-261	Calculus for Life Sciences	4	BIOL-321	Biostatistics	3
<b>ENGL-200</b>	<b>Speech</b>	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 ( <b>FALL ONLY</b> ) <b>OR</b>	--
BIOL-307	Principles of Physiology	4	BIOL-422	Biochemical Mechanisms ( <b>SPRING ONLY</b> )	4
<b>HIST-xxx</b>	<b>History#</b>	3	<b>GLOB-395</b>	<b>Global Societies</b>	3
PHYS-211	Fundamentals of Physics I	4	PHYS-212	Fundamentals of Physics II	4
			BIOL-399	Junior Seminar-Sci. Writing*	1
			BIOL-xxx	Biology Elective	4
	Total Credits	15		Total Credits	16
Summer Research Internship					
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
	<b>Arts and Humanities#</b>	3	<b>PHIL-xxx</b>	<b>Philosophy course (Humanities)</b>	3
BIOL-xxx	Biology Elective	4	BIOL-xxx	Biology Elective	4
BIOL-xxx	Biology Elective	4		Open Elective	3-4
BIOL-451	Senior Research (Capstone I)**	2		Open Elective	3-4
			BIOL-499	Senior Seminar ( <b>Capstone II</b> )**	1
	Total Credits	13		Total Credits	14-16

\*\* Senior Capstone (if BIOL 301 or internship already completed, 451 can be waived)

\*Writing Intensive Course

# One of these courses must be used to meet the African American Experience requirement and at least one of the others must meet the Multicultural Experience requirement

<sup>§</sup>BIOL 101 AND 102, or their equivalents from another university, together can substitute for 201 and 202

Total Credits: 121-123
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**BIOLOGY ELECTIVES:** Students must take no less than 18 credits of Biology courses from the elective course list below. These are the only ones that can satisfy the Biology elective requirement for this concentration. Substitutions can be requested, under special circumstances, but require written approval of advisor and Chair in advance.

**REQUIREMENTS:** Students must take each of the five biology core courses (201, 202, 215, 210 and 310) in order and earn a “C” or higher in each before being able to progress to the next in the sequence. In order for a student to take any 300 or 400 level Biology Department course, he or she must have earned a “C” in the first four core courses (201, 202, 215, 210). These grade requirements take precedence over, and supersede, any lesser specific prerequisites of all 300 or 400 level Biology electives.

**TRANSFER CREDITS:** Students who receive transfer credit for courses that are equivalent to both BIOL 101 and 102 will be considered to have met the BIOL 201 and 202 prerequisites for BIOL 215.

**SPECIAL NOTES:** For all programs and concentrations, a grade of “C” or better is required for all Biology and other 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 can be exempted from the required Senior Capstone I course. If the project was an internship at another institution, students must present their data to their advisor. 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. All majors in the department are required to successfully complete Senior Seminar (Capstone II, BIOL-499), no exceptions can be made.

Students wanting a chemistry minor should take CHEM-403 instead of BIOL-422. Students electing to take BIOL-422 will need to take another Chemistry course – Instrumental Analysis (CHEM-306) with lab is suggested.

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.

### Suggested Research Professions Electives

#### Biology Electives:

BIOL-307 Principles of Physiology  
BIOL-311 Neuroscience  
BIOL-317 Principles of Virology  
BIOL-322 Microbiology  
BIOL-370 Human Anatomy  
BIOL-375 Molecular Genet. and Genomics  
BIOL-411 Pharmacology  
BIOL-420 Immunology  
BIOL-470 Biotechnological Processes

#### Open Electives:

CSCI-301 Introduction to Bioinformatics  
MTSC-251 Calculus I (instead of MTSC-261)  
AGRI-205 Plant Physiology  
AGRI-212 General Botany  
ENGR-318 Foundations of Bioengineering  
ENGR-409 Biosensors and Bioinstrumentation  
ENGR-410 Molecular Engineering Systems

**A concentration is required for this major.**

**Non-course requirements for the major:** Students must complete an independent research project at some point prior to taking BIOL 499. This research project may be through a course such as BIOL 301 or BIOL 452 or as part of a research internship, either paid or volunteer.

**Major courses:**

Subject Code	Course Number	Course Name	Number of Credits
BIOL	191	University Seminar I - Biology	1
BIOL	192	University Seminar II - Biology	1
BIOL	194	Introduction to Biology Professions	1
BIOL	201	Organisms	4
BIOL	202	Evolution, Ecology and Diversity	4
BIOL	210	Genetics	4
BIOL	215	Cell Biology	4
BIOL	299	Sophomore Seminar – Scientific Literature	1
BIOL	310	Molecular Biology	4
BIOL	399	Junior Seminar – Scientific Writing	1
BIOL	422	Biological Mechanisms*	4
BIOL	451	Senior Research Project – Capstone I**	1
BIOL	499	Senior Seminar – Biological Presentation – Capstone II	1

\* May be replaced by CHEM 403

\*\* May be exempted if the student has completed a suitable research project prior to their senior year

**Major Electives:** Students must take 18 credits from the list of Biology elective courses

**Other required courses for the major:**

Subject Code	Course Number	Course Name	Number of Credits
CHEM	101	General Chemistry I lecture and lab	4 (3+1)
CHEM	102	General Chemistry II lecture and lab	4 (3+1)
CHEM	210	Organic Chemistry I lecture and lab	4 (3+1)
CHEM	211	Organic Chemistry II lecture and lab	4 (3+1)
MTSC	122	Trigonometry	3

**Concentration Name: Research Professions – Required Courses**

Subject Code	Course Number	Course Name	Number of Credits
BIOL	321	Biostatistics	3
MTSC	261	Calculus for Life Sciences	4
PHYS	211	Fundamentals of Physics I	4
PHYS	212	Fundamentals of Physics II	4

**Concentration Name: Research Professions – Biology Elective Courses**

Subject Code	Course Number	Course Name	Number of Credits
BIOL	302	Comparative Vertebrate Anatomy	4
BIOL	311	Neuroscience	4
BIOL	315	Behavior	4
BIOL	316	Physiology of Reproduction and Development	4
BIOL	317	Virology	4
BIOL	322	Microbiology	4
BIOL	375	Molecular Genetics and Genomics	4

BIOL	407	Biology of Cancer	4
BIOL	408	Pathophysiology	4
BIOL	411	Pharmacology	4
BIOL	420	Immunology	4
BIOL	421	Microbial Physiology and Ecology	4
BIOL	442	Biology of Aging	4
BIOL	470	Biotechnological Processes	4

**General Education Breadth courses: Research Professions Concentration**

Breadth Area	Any Approved Course or list course/courses
Literature (three credits)	Any approved course
History (three credits)	Any World History if African-American Literature was taken or any African-American Experience if World Literature was taken
Mathematics (three or four credits)	MTSC 122 Trigonometry
Natural Science with Laboratory (three or four credits)	CHEM 101 General Chemistry I
Social Science (three credits)	Any approved course
Arts/Humanities (two three-credit courses)	Any approved Philosophy course and any other approved course

**Across-the-Curriculum (A-t-C)**

Program/Major		Biological Sciences
Concentration (if applicable)		Research Professions
Effective Date		Fall 2013
A-t-C Outcome	Course(s)	Course Name(s)
Reading	BIOL 201 Or BIOL 299	Organisms Sophomore Seminar Scientific Literature
Writing Intensive or Writing in Major (outside capstone)	BIOL 210 Or BIOL 399	Genetics Junior Seminar Scientific Writing
Speaking – Oral Communication – Presentation	BIOL 499	Senior Seminar
Speaking – Oral Communication – Discussion	BIOL 310	Molecular Biology
Listening	CHEM 403 or BIOL 422	Biochemistry Biochemical Mechanism
Computer Competency	BIOL 215	Cell Biology
Information Literacy	BIOL 299	Sophomore Seminar Scientific Literature
Critical Thinking/Problem Solving	XXXX-XXX	Any 300 level or higher Science course
Quantitative Reasoning	BIOL 210 BIOL 321 MTSC XXX	Genetics Biostatistics Any math department Statistics

<b>Multicultural</b> 6 credits (choose two)	ENGL 201 or 202 Or HIST 101 or 102 Or SCCJ 101 Or any World Language	World Literature I/II World History I/II Introduction to Sociology
<b>African-American Experience</b>	ENGL 205 or 206 Or HIST 203 or 204 Or MUSC 100 Or ART 316	African-American Literature I or II African-American Experience I or II African-American Music African-American Art History
<b>Self-Evaluation</b>	BIOL 194	Introduction to Biology Professions
<b>Wellness</b>	PSYC201 Or BIOL 201	Intro to Psychology Organisms
<b>Global Issues</b>	BIOL 202	Evolution/Ecology/Diversity

## B.S. DEGREE IN BIOLOGICAL SCIENCES – GENERAL BIOLOGY

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
BIOL-201	Organisms <sup>§</sup>	4	BIOL-202	Evolution, Ecology and Diversity <sup>§</sup>	4
CHEM-101	General Chemistry I	4	CHEM-102	General Chemistry II	4
<b>ENGL-101</b>	<b>English Composition I</b>	3	<b>ENGL-102</b>	<b>English Composition II</b>	3
	<b>Social Science</b>	3	<b>MTSC-122</b>	<b>Trigonometry</b>	3
<b>BIOL-191</b>	<b>University Seminar I</b>	1	<b>BIOL-192</b>	<b>University Seminar II</b>	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-210	Organic Chemistry I	4	CHEM-211	Organic Chemistry II	4
<b>MVSC-101</b>	<b>Fitness and Wellness</b>	2	<b>ENGL-xxx</b>	<b>Literature#</b>	3
	Statistics	3	<b>HIST-xxx</b>	<b>History#</b>	3
<b>ENGL-200</b>	<b>Speech</b>	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 ( <b>FALL ONLY</b> ) <b>OR</b>	--
BIOL-205	Ecology	4	BIOL-422	Biochemical Mechanisms ( <b>SPRING ONLY</b> )	4
BIOL-xxx	Biology Elective	4	<b>GLOB-395</b>	<b>Global Societies</b>	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
Summer Research Internship					
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
	<b>Arts and Humanities#</b>	3		<b>Arts and Humanities#</b>	3
BIOL-xxx	Biology Elective	4	BIOL-xxx	Biology Elective	4
BIOL-xxx	Biology Elective	4		Open Elective	3-4
BIOL-301	Problems in Biology			Open Elective	3-4
	<b>OR</b>		BIOL-499	Senior Seminar ( <b>Capstone II</b> )**	1
BIOL-451	Senior Research (Capstone I)**	2			
	Total Credits	13		Total Credits	14-16

\*\* Senior Capstone (if BIOL 301 or internship already completed, 451 can be waived)

Total Credits: 121-123

\*Writing Intensive Course

# One of these courses must be used to meet the African American Experience requirement and at least one of the others must meet the Multicultural Experience requirement

<sup>§</sup>BIOL 101 AND 102, or their equivalents from another university, together can substitute for 201 and 202

**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 concentration. Substitutions can be requested, under special circumstances, but written approval of advisor and Chair is needed.

**REQUIREMENTS:** Students must take each of the five biology core courses (201, 202, 215, 210 and 310) in order and earn a “C” or higher in each before being able to progress to the next in the sequence. In order for a student to take any 300 or 400 level Biology Department course, he or she must have earned a “C” in the first four core courses (201, 202, 215, 210). These grade requirements take precedence over, and supersede, any lesser specific prerequisites of all 300 or 400 level Biology electives.

**TRANSFER CREDITS:** Students who receive transfer credit for courses that are equivalent to BIOL 101 and 102 will be considered to have met the BIOL 201 and 202 prerequisites for BIOL 215.

**SPECIAL NOTES:** For all programs and concentrations, a grade of “C” or better is required for all Biology and other 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 can be exempted from the required Senior Capstone I course. If the project was an internship at another institution, students must present their data to their advisor. 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. All majors in the department are required to successfully complete Senior Seminar (Capstone II, BIOL-499), no exceptions can be made.

Students wanting a chemistry minor should take CHEM-403 instead of BIOL-422. Students electing to take BIOL-422 will need to take another Chemistry course – Instrumental Analysis (CHEM-306) with lab is suggested. Another set of courses a student may consider is PHYS-317 (Foundations of Bioengineering) and PHYS-409 (Biosensors and Bio-instrumentation) as electives with advisor approval but these courses will require you to take calculus which is not required in this curriculum.

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 121-123 hours depending on selections.

### Suggested General Biology Electives

<b>Biology Electives: (at least one each from Group I and Group II)</b>	<b>Open Electives:</b>
BIOL-302 Comp. Vertebrate Anatomy (I)	NTRS-311 Mammalogy
BIOL-305 Developmental Biology (I)	NTRS-312 Ornithology
BIOL-315 Behavior (II)	NTRS-314 Ichthyology
BIOL-322 Microbiology (II)	NTRS-465 Marine Biology
BIOL-420 Immunology (I)	NTRS-456 Wetlands Biology
BIOL-421 Microbial Physio & Ecology (II)	AGRI-205 Plant Physiology
	AGRI-212 General Botany
	AGRI-213 Systematic Botany

**A concentration is required for this major.**

**Non-course requirements for the major:** Students must complete an independent research project at some point prior to taking BIOL 499. This research project may be through a course such as BIOL 301 or BIOL 451 or as part of a research internship, either paid or volunteer.

**Major courses:**

Subject Code	Course Number	Course Name	Number of Credits
BIOL	191	University Seminar I - Biology	1
BIOL	192	University Seminar II - Biology	1
BIOL	194	Introduction to Biology Professions	1
BIOL	201	Organisms	4
BIOL	202	Evolution, Ecology and Diversity	4
BIOL	210	Genetics	4
BIOL	215	Cell Biology	4
BIOL	299	Sophomore Seminar – Scientific Literature	1
BIOL	310	Molecular Biology	4
BIOL	399	Junior Seminar – Scientific Writing	1
BIOL	422	Biological Mechanisms*	4
BIOL	451	Senior Research Project – Capstone I**	1
BIOL	499	Senior Seminar – Biological Presentation – Capstone II	1

\* May be replaced by CHEM 403

\*\* May be exempted if the student has completed a suitable research project prior to their senior year

**Major Electives:** Varies depending on the concentration. Check each concentration for specifics.

**Other required courses for the major:**

Subject Code	Course Number	Course Name	Number of Credits
CHEM	101	General Chemistry I lecture and lab	4 (3+1)
CHEM	102	General Chemistry II lecture and lab	4 (3+1)
CHEM	210	Organic Chemistry I lecture and lab	4 (3+1)
CHEM	211	Organic Chemistry II lecture and lab	4 (3+1)
MTSC	122	Trigonometry	3

**Concentration Name: General Biology – Required Courses**

Subject Code	Course Number	Course Name	Number of Credits
BIOL	205	Ecology	4
PHYS	111	Introduction to Physics I	4
PHYS	112	Introduction to Physics II	4
XXX	XXX	Statistics (any department)	3

**Concentration Name: General Biology – Biology Elective Courses (at least I from Group I and II)**

Subject Code	Course Number	Course Name	Number of Credits
BIOL	302	Comparative Vertebrate Anatomy (I)	4
BIOL	305	Developmental Biology (I)	4
BIOL	315	Behavior (II)	4
BIOL	322	Microbiology (II)	4
BIOL	420	Immunology (I)	4
BIOL	421	Microbial Physiology and Ecology (II)	4

**General Education Breadth courses: General Biology Concentration**

Breadth Area	Any Approved Course or list course/courses
Literature (three credits)	Any approved course
History (three credits)	Any World History if African-American Literature was taken or any African-American Experience if World Literature was taken
Mathematics (three or four credits)	MTSC 122 Trigonometry
Natural Science with Laboratory (three or four credits)	CHEM 101 General Chemistry I
Social Science (three credits)	Any approved course
Arts/Humanities (two three-credit courses)	Any approved course

**Across-the-Curriculum (A-t-C)**

<b>Program/Major</b>		Biological Sciences
<b>Concentration (if applicable)</b>		Any
<b>Effective Date</b>		Fall 2013
<b>A-t-C Outcome</b>	<b>Course(s)</b>	<b>Course Name(s)</b>
<b>Reading</b>	BIOL 201 Or BIOL 299	Organisms Sophomore Seminar Scientific Literature
<b>Writing Intensive or Writing in Major (outside capstone)</b>	BIOL 210 Or BIOL 399	Genetics Junior Seminar Scientific Writing
<b>Speaking – Oral Communication – Presentation</b>	BIOL 499	Senior Seminar
<b>Speaking – Oral Communication – Discussion</b>	BIOL 310	Molecular Biology
<b>Listening</b>	CHEM 403 or BIOL 422	Biochemistry Biochemical Mechanism
<b>Computer Competency</b>	BIOL 215	Cell Biology
<b>Information Literacy</b>	BIOL 299	Sophomore Seminar Scientific Literature
<b>Critical Thinking/Problem Solving</b>	XXXX-XXX	Any 300 level or higher Science course
<b>Quantitative Reasoning</b>	BIOL 210 BIOL 321 MTSC XXX	Genetics Biostatistics Any math department Statistics
<b>Multicultural</b> 6 credits (choose two)	ENGL 201 or 202 Or HIST 101 or 102 Or SCCJ 101 Or any World Language	World Literature I/II  World History I/II  Introduction to Sociology
<b>African-American Experience</b>	ENGL 205 or 206 Or HIST 203 or 204 Or MUSC 100 Or ART 316	African-American Literature I or II  African-American Experience I or II  African-American Music African-American Art History

<b>Self-Evaluation</b>	BIOL 194	Introduction to Biology Professions
<b>Wellness</b>	PSYC201 Or BIOL 201	Intro to Psychology Organisms
<b>Global Issues</b>	BIOL 202	Evolution/Ecology/Diversity

## B.S. DEGREE IN FORENSIC BIOLOGY

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
BIOL-201	Organisms <sup>§</sup>	4	BIOL-202	Evolution, Ecology and Diversity <sup>§</sup>	4
CHEM-101	General Chemistry I	4	CHEM-102	General Chemistry II	4
<b>ENGL-101</b>	<b>English Composition I</b>	3	<b>ENGL-102</b>	<b>English Composition II</b>	<b>3</b>
<b>SCCJ-101</b>	<b>Introduction to Sociology (Social Science)</b>	3	SCCJ-104	Introduction to Criminal Justice	3
<b>BIOL-191</b>	<b>University Seminar I</b>	1	<b>BIOL-192</b>	<b>University Seminar II</b>	1
			BIOL-194	Intro. to Biology Professions	1
	Total Credits	15		Total Credits	16
<b>GPA must be 3.0 or higher in order to remain in Forensic Biology Major</b>					
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
BIOL-215	Cell Biology	4	BIOL-210	Genetics*	4
CHEM-210	Organic Chemistry I	4	CHEM-211	Organic Chemistry II	4
<b>MVSC-101</b>	<b>Fitness and Wellness</b>	2	BIOL-299	Soph. Seminar – Sci. Literature	1
<b>MTSC-261</b>	<b>Calculus for Life Sciences</b>	4	BIOL-321	Biostatistics	3
BIOL-225	Survey of Forensic Science	3	BIOL-255	For. /Investigative Biol. Lab	3
	Total Credits	17		Total Credits	15
<b>GPA must be 3.0 or higher in order to remain in Forensic Biology Major</b>					
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
BIOL-310	Molecular Biology*	4	<b>ENGL-200</b>	<b>Speech</b>	3
<b>PHIL-xxx</b>	<b>Philosophy course (Humanities)</b>	3	BIOL-399	Junior Seminar-Sci. Writing*	1
<b>ENGL-xxx</b>	<b>Literature#</b>	3	<b>GLOB-395</b>	<b>Global Societies</b>	3
BIOL-xxx	Forensic Biology Elective	4	BIOL-xxx	Forensic Biology Elective	4
<b>ART-425</b>	<b>Adv. Photography (Art)</b>	3		Forensic Elective	3-4
BIOL-310	Molecular Biology*	4	<b>ENGL-200</b>	<b>Speech</b>	3
	Total Credits	17		Total Credits	15
Research or 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
BIOL-xxx	Forensic Biology Elective	4	CHEM-403	Biochemistry ( <b>FALL ONLY</b> ) <b>OR</b>	--
	Forensic Elective	3-4	BIOL-422	Biochemical Mechanisms ( <b>SPRING ONLY</b> )	4
BIOL-451	Senior Research ( <b>Capstone I</b> )** or internship	2	SCCJ-313	Courts and Criminal Justice	3
BIOL-489	Professional Practice in Forensics	1	<b>HIST-xxx</b>	<b>History#</b>	3
			BIOL-499	Senior Seminar ( <b>Capstone II</b> )**	1
	Total Credits	14-15		Total Credits	15

\*\* Senior Capstone (if BIOL 301 or internship already completed, 451 can be waived)

Total Credits: 123-125

\*Writing Intensive Course

# One of these courses must be used to meet the African American Experience requirement and at least one of the others must meet the Multicultural Experience requirement

<sup>§</sup>BIOL 101 AND 102, or their equivalents from another university, together can substitute for 201 and 202

**FORENSIC BIOLOGY ELECTIVES:** The BS in Forensic Biology is a very specialized curriculum. In order to successfully complete a Forensic Biology degree (BS), students must take three courses from the following list: BIOL-307 Principles of Physiology; BIOL-370 Human Anatomy; BIOL-355 Forensic DNA Analysis; or BIOL-325 Forensic Pathology.

**FORENSIC ELECTIVES:** In order to successfully complete a Forensic Biology degree (BS), students must take two courses from the following list: CHEM-306 Instrumental Analysis; CHEM-202 Forensic Chemistry; CHEM-462 Chemical Toxicology; BIOL-466 Toxicology (NTRS-466 Environmental Toxicology can be substituted for CHEM-362)

**BIOLOGY ELECTIVES:** 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 they satisfy course expectations of their intended school choices. All students must pass the Biology Comprehensive Assessment (BCA) examination of core courses given to all students in BIOL-399. If he or she does 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.

If you change to the BS degree in Biological Sciences - note that acceptance of forensic curriculum courses that are not in your selected new concentration must be approved by your advisor and the chair in writing at the time of your change; these cannot be approved retroactively. The other concentrations are designed for specific career goals, including entrance examinations that may make substitutions/replacements ill advisable, so students changing to BS in Biological Sciences will likely need to adhere to the course sequence listed.

**REQUIREMENTS:** Students must take each of the five biology core courses (201-202-215-210-310) in order and earn a grade of "C" or higher in each before being able to progress to the next in the sequence (BIOL 101-102 can substitute for 201-202 but both of each group must be taken and same grade criteria apply). In order for a student to take any 300 or 400 level Biology Department course, he or she must have earned both BIOL-210 and BIOL-215 with a "C" or better in the first four core courses. These grade requirements take precedence over and supersede any lesser specific prerequisites of all 300 or 400 level Biology electives.

In order to remain in the Forensic Biology program, students must undergo an assessment by their academic advisor after their freshman and sophomore years. The student must maintain a GPA of 3.0 in order to remain in the program. If the minimum GPA requirement is not met, students may continue with the general biology curriculum until the GPA requirement has been achieved. Please refer to the Forensic Biology Student Handbook for more information.

**SPECIAL NOTES:** For all programs and tracks, a grade of "C" or better is required for all Biology, required Forensic courses (not bolded), and other 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 Biology majors must complete an independent research project or forensic internship. 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 can be exempted from the required Senior Capstone (BIOL 451) course. 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 a student has not completed a research project, or his or her external internship is inadequate, then the student must register for BIOL-451 or 452 to complete a Capstone research project; no exceptions can be made.

**TRANSFER CREDITS:** Students who receive transfer credit for courses that are equivalent to BIOL 101 and BIOL102 will be considered to have met the BIOL 201 and 202 prerequisites for BIOL 215

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 Forensic Biology you will usually complete between 123-125 hours depending on selections.

**A concentration is required for this major.**

**Non-course requirements for the major:** Students must complete an independent research project or professional internship at some point prior to taking BIOL 499. This project may be through a course such as BIOL 301 or BIOL 451 or as part of an internship, either paid or volunteer.

**Major courses:**

Subject Code	Course Number	Course Name	Number of Credits
BIOL	191	University Seminar I - Biology	1
BIOL	192	University Seminar II - Biology	1
BIOL	194	Introduction to Biology Professions	1
BIOL	201	Organisms	4
BIOL	202	Evolution, Ecology and Diversity	4
BIOL	210	Genetics	4
BIOL	215	Cell Biology	4
BIOL	225	Survey of Forensic Science	3
BIOL	255	Forensic/Investigative Biology Laboratory	3
BIOL	299	Sophomore Seminar – Scientific Literature	1
BIOL	310	Molecular Biology	4
BIOL	321	Biostatistics	3
BIOL	399	Junior Seminar – Scientific Writing	1
BIOL	422	Biological Mechanisms*	4
BIOL	451	Senior Research Project – Capstone I**	1
BIOL	489	Professional Practice in Forensics	1
BIOL	499	Senior Seminar – Biological Presentation – Capstone II	1

\* May be replaced by CHEM 403

\*\* May be exempted if the student has completed a suitable research project or internship prior to their senior year

**Major Electives:** Students must successfully complete three of the four Forensic Biology electives and two of the three Forensic electives.

**Forensic Biology Electives**

Subject Code	Course Number	Course Name	Number of Credits
BIOL	307	Principles of Physiology	4
BIOL	325	Forensic Pathology	4
BIOL	355	Forensic DNA Analysis	4
BIOL	370	Human Anatomy	4

**Forensic Electives**

Subject Code	Course Number	Course Name	Number of Credits
CHEM	202	Forensic Chemistry	4
CHEM	306	Instrumental Analysis	4
CHEM	462	Chemical Toxicology	4

**Other required courses for the major:**

Subject Code	Course Number	Course Name	Number of Credits
CHEM	101	General Chemistry I lecture and lab	4 (3+1)
CHEM	102	General Chemistry II lecture and lab	4 (3+1)
CHEM	210	Organic Chemistry I lecture and lab	4 (3+1)
CHEM	211	Organic Chemistry II lecture and lab	4 (3+1)
MTSC	122	Trigonometry	3
MTSC	261	Calculus for Life Sciences	4
PHYS	211	Fundamentals of Physics I	4
PHYS	212	Fundamentals of Physics II	4
SCCJ	101	Introduction to Sociology	3
SCCJ	104	Introduction to Criminal Justice	3
SCCJ	313	Courts and Criminal Justice	3

**General Education Breadth courses: Health Professions Concentration**

Breadth Area	Any Approved Course or list course/courses
Literature (three credits)	Any approved course
History (three credits)	Any World History if African-American Literature was taken or any African-American Experience if World Literature was taken
Mathematics (three or four credits)	MTSC 122 Trigonometry
Natural Science with Laboratory (three or four credits)	CHEM 101 General Chemistry I
Social Science (three credits)	SCCJ 101 Introduction to Sociology
Arts/Humanities (two three-credit courses)	ART 425 Advanced Photography and any approved Philosophy course

**Across-the-Curriculum (A-t-C)**

<b>Program/Major</b>		Forensic Biology
<b>Concentration (if applicable)</b>		N/A
<b>Effective Date</b>		Fall 2013
<b>A-t-C Outcome</b>	<b>Course(s)</b>	<b>Course Name(s)</b>
<b>Reading</b>	BIOL 201 Or BIOL 299	Organisms Sophomore Seminar Scientific Lit
<b>Writing Intensive or Writing in Major (outside capstone)</b>	BIOL 210 Or BIOL 399	Genetics Junior Seminar Scientific Writing
<b>Speaking – Oral Communication – Presentation</b>	BIOL 499	Senior Seminar
<b>Speaking – Oral Communication – Discussion</b>	BIOL 310	Molecular Biology

<b>Listening</b>	CHEM 403 or BIOL 422	Biochemistry Biochemical Mechanism
<b>Computer Competency</b>	BIOL 215	Cell Biology
<b>Information Literacy</b>	BIOL 299	Sophomore Seminar Scientific Literature
<b>Critical Thinking/Problem Solving</b>	XXXX-XXX	Any 300 level or higher Science course
<b>Quantitative Reasoning</b>	BIOL 210 BIOL 321 MTSC XXX	Genetics Biostatistics Any math department Statistics
<b>Multicultural</b> 6 credits (choose two)	ENGL 201 or 202 Or HIST 101 or 102 Or SCCJ 101 Or any World Language	World Literature I/II  World History I/II  Introduction to Sociology
<b>African-American Experience</b>	ENGL 205 or 206 Or HIST 203 or 204	African-American Literature I or II  African-American Experience I or II
<b>Self-Evaluation</b>	BIOL 194	Introduction to Biology Professions
<b>Wellness</b>	BIOL 201	Organisms
<b>Global Issues</b>	BIOL 202	Evolution/Ecology/Diversity

## **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 thorough survey of basic principles 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 thorough survey of basic principles in the Biological Sciences. This course requires a grade of "C" in BIOL-101, or permission of instructor. 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 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. Prerequisite: Education major, not a natural science for other departments. 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. 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-201. ORGANISMS****4:3:3**

This course is the first of five required core courses in Biology. It serves as an introduction to the study of life through the study of plant and animal physiology and anatomy. The course consists of lecture, recitation and laboratory components. A grade of "C" or better is required in this course in order to proceed to BIOL 202. Prerequisite: Biological Sciences or Forensic Biology major. Credits, four hours.

**BIOL-202. EVOLUTION, ECOLOGY, AND DIVERSITY**

This course is the second of five required core courses in Biology. It serves to introduce the student to the central role of evolution in the study of life and how living organisms interact in the environment. The course also examines the natural history of life on Earth and the full range of living organisms. The course consists of lecture, recitation and laboratory. A grade of "C" or better is required in this course in order to proceed to BIOL 215. Prerequisites: BIOL 201. Credits, four 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- 202 (or 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: Pre-Nursing major. Demonstrated knowledge (grade of B or higher) in high school Biology and Chemistry. BIOL-207 and 208 must be taken in sequence and both at the same institution. 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-202 (or 102) with grade of "C" or better. 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. Three (3) lecture hours and one (1) three-hour labs each week. Prerequisites: BIOL-202 (or 102) with grade of "C" or better. 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. Pre-Nursing major.

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-275. ADVANCED TECHNOLOGIES in FORENSICS****2:1:2**

This course will provide students with an in-depth knowledge of the many emerging technologies in forensic science. This course will focus on newer and automated techniques for DNA extraction, DNA quantitation, amplification, and sequencing. This course will describe the capabilities and limitations of each instrument and multiplex kit, the differences between extraction, amplification, and sequencing kits and instruments, and the use of proper sterile procedures to avoid the many pitfalls of incorrect handling of instruments. Other topics that will be covered include next generation sequencing, direct amplification methods, methods in analysis, the importance of proper reagent controls, and relevant forensic journal articles.

Prerequisites: BIOL 210, BIOL 255

Credit, 2 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: Sophomore status

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: Completion of 200-level Biology core courses with a C or higher or with instructor's permission.

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: Completion of 200-level Biology core courses with a C or higher or with instructor's permission.

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: Completion of 200-level Biology core courses with a C or higher or with instructor's permission.

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: Completion of 200-level Biology core courses with a C or higher or with instructor's permission.

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: Completion of 200-level Biology core courses with a C or higher or with instructor's permission.

Credit, four hours.

**BIOL-316 PHYSIOLOGY OF REPRODUCTION AND DEVELOPMENT****4:3:3**

This is a four-credit laboratory-based course that addresses human reproductive physiology and development.

Topics include the molecular, cellular, and systemic aspects of male and female reproductive systems, gametogenesis, fertilization, embryonic development, placental physiology, partuition, and lactation.

Prerequisites – BIOL 210 and 215; must be Biological Sciences majors

Credit – four (4) 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: Completion of 200-level Biology core courses with a C or higher or with instructor's permission.

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: Completion of 200-level Biology core courses with a C or higher or with instructor's permission.

Credit, four hours.

**BIOL-325. FORENSIC PATHOLOGY****4:3:3**

Prerequisites: BIOL 101/102 or 201/202. This course familiarizes the student with various aspects of forensic pathology to include, but not limited to: jurisdictional issues; identification measures; death determination and autopsy protocols; post-mortem changes; various consultative aspects of forensic pathology; and diagnostic characteristics of a variety of causes, mechanisms, and manners of death.

Prerequisites: BIOL-225 and completion of 200-level Biology core courses (C or higher) or instructor's permission.

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: Completion of 200-level Biology core courses with a C or higher or with instructor's permission.

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 "sister" course, Principles of Physiology, to provide a comprehensive view of human body functions.

Prerequisites: Completion of 200-level Biology core courses with a C or higher or with instructor's permission.

Credit, four hours.

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

An overview of molecular genetics 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: Completion of 200-level Biology core courses with a C or higher or with instructor's permission.

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: Completion of 200-level Biology core courses with a C or higher or with instructor's permission.

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.

Prerequisites: Completion of 200-level Biology core courses with a C or higher or with instructor's permission.

Credit, four hours.

**BIOL-408 PATHOPHYSIOLOGY (Biology majors)****4:3:3**

Pathophysiology is the study of abnormal function in living tissue. This course describes the basic biology of various disease processes, building upon the knowledge gained in Genetics, Cell Biology, and Principles of Physiology. Physiological principles underlying the causes, signs, symptoms, and pattern of development of human disease will be examined. Building upon a basic background in human biology, the manifestations of various human diseases will be explained by the way these diseases disrupt normal physiology, anatomy and biochemistry. Knowing how diseases disrupt normal physiology will also help in understanding the rationale behind many types of treatment. Health disparities will also be addressed.

Pre-requisites: Completion of 200-level Biology core courses with a C or higher, Physiology (BIOL 307) as a prerequisite or co-requisite or with instructor's permission

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: Completion of 200-level Biology core courses with a C or higher or with instructor's permission and BIOL-310.

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: Completion of 200-level Biology core courses with a C or higher or with instructor's permission.

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-442. BIOLOGY OF AGING****3:3:0**

This course presents biological principles that have led to a new understanding of the causes of aging and describes how these basic principles help one understand the human experience of biological aging, longevity, and age-related diseases. It describes how the rate of biological aging is measured and explores the mechanisms underlying cellular aging. Prerequisite – BIOL 310

Credit – three (3) hours

**BIOL-451. SENIOR RESEARCH PROJECT I. CAPSTONE I****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 I****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-465. ENTOMOLOGY****3:2:2**

This course presents current information on the role of insects in decomposition, the role of insect evidence in criminal and civil investigations, and the influence of insects on society. This course details the use of insects as evidence in forensic investigations, and allows students to learn about the basic principles of entomology, and the applications of entomology in various fields

**BIOL-470 BIOTECHNOLOGICAL PROCESSES**

Introduces the student to both classic and advanced techniques in modern biology research. Students will carry out extended research projects in an all-laboratory format.

Prerequisite BIOL-310.

Credit, Four 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-488 MCAT PREPARATION****1:1:0**

This course is an important part of preparation for successfully taking the MCAT exam in order to obtain admission to medical school. Students will take practice MCAT exams, review the exam expectations and participate in activities to boost their test performance.

Prerequisites: Junior standing.

Credit, one hour.

**BIOL-489 PROFESSIONAL PRACTICE IN FORENSICS SCIENCE****1:1:0**

The course meets 1 hour weekly, but additional training and seminars are required. An examination of historical and current issues in the scientific analysis of physical evidence in criminal investigations. Include both individual and group activities relating to professional practices (ethics, quality control and testimony) of forensic scientists.

Prerequisites: BIOL 225, 255 and two additional upper level forensic courses. Restricted to seniors in forensic science with at least 90 credit hours toward the degree.

Credit, one hour.

**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

**Associate Professors:** DiMaria, Lai, Workie, Wang, Winstead, Radu

**Assistant Professors:** Kim

**Lecturer:** Song, Milligan, Hayes

**Department Assistants:** Campbell, Hopkins

The Department of Chemistry strives to provide a sound foundation in chemistry for students wishing to concentrate in chemistry; to prepare students for professional careers 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 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. For all programs and tracks, a grade of "C" or better is required for all Chemistry courses to advance to higher level courses. Additionally, a grade of "C" or better is also required in all CMNST courses.

### CURRICULUM OPTIONS

#### CHEMISTRY MAJOR

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 fifty-three (53) hours distributed as follows: Chemistry 101-102, 210-211, 303-304, 305, 306, 308, 403, 405 and 407, and nine (9) hours of electives, distributed as follows: Six (6) hours in advanced chemistry, and three (3) hours in advanced mathematics or physics or nine (9) hours in advanced chemistry. In addition, a Chemistry major must take PSYC 201, Mathematics 251-252, and Physics 211-212. Chemistry majors with biochemical interest are also required to take Biology 101-102.

#### CHEMISTRY MAJOR (HEALTH PROFESSIONS)

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, 210-211, 303-, 305, 403, 405 and 407, plus four (4) hours of advanced biology elective. In addition, a Pre-Professional major must take Biology 101-102, 210, 215; plus three (3) hours of advanced Biology elective, Mathematics 241, 251-252, and Physics 201-202 or 211-212, SCCJ 101 and PSYC 201.

#### 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, 210, 211, and an advanced chemistry elective (300 or higher).

**DEPARTMENT OF CHEMISTRY**  
**CHEMISTRY FOR THE HEALTH PROFESSIONS CURRICULUM**

Fall Semester		Spring Semester	
Course	Course Name	Course	Course Name
CHEM-101	General Chemistry I	CHEM-102	General Chemistry II
ENGL-101	English Composition I (C)	ENGL-102	English Comp. II (C)
xx-xxx	History Elective (B/AtC)	xx-xxx	Arts/Humanities Elective (B/AtC)
BIOL-101	General Biology I (B)	BIOL-102	General Biology II (B)
CHEM-191	University Seminar I (C)	CHEM-192	University Seminar II (C)
		MVSC-101	Fitness and Wellness (C)
	<b>Total Credit Hours: 15</b>		<b>Total Credit Hours: 17</b>

Fall Semester		Spring Semester	
Course	Course Name	Course	Course Name
CHEM-210	Organic Chemistry I	CHEM-211	Organic Chemistry II
BIOL-215	Cell Biology	PSYC-201	Introduction to General Psychology (B)
MTSC-251	Calculus I (B)	MTSC-252	Calculus II (AtC)
SCCJ-101	Introduction to Sociology (B)	BIOL-210	Genetics
	<b>Total Credit Hours: 15</b>		<b>Total Credit Hours: 15</b>

Fall Semester		Spring Semester	
Course	Course Name	Course	Course Name
CHEM-305	Analytical Chemistry	PHYS-202	General Physics II
PHYS-201	General Physics I (B)	OR	
PHYS-211	Fundamentals of Physics I (B)	PHYS-212	Fundamentals of Physics II
CHEM-403	Biochemistry	PHIL-202	Ethics OR
BIOL-3xx	Advanced Biology Elective (300 level or higher) OR	OR	
GLOB-395	Global Societies (C)	BIOL-322	BioEthics
		MTSC-241	Statistics
		BIOL-3xx	Advanced Biology Elective (300 level or higher) OR
		OR	
		GLOB-395	Global Societies (C)
		ENGL-200	Speech (C)
	<b>Total Credit Hours: 15</b>		<b>Total Credit Hours: 16</b>

Fall Semester		Spring Semester	
Course	Course Name	Course	Course Name
CHEM-303	Physical Chemistry I	CHEM-306	Instrumental
CHEM-407/8	Seminar in Chemistry	CHEM-308	Inorganic
ENGL-xxx	Literature Elective (B/AtC)	xx-xxx	Elective
xx-xxx	Elective	CHEM-3xx	Elective (300 level or higher)
CHEM-405	*Independent Study & Research		
	<b>Total Credit Hours: 14</b>		<b>Total Credit Hours: 14</b>

\*Capstone

**Key Codes:**

(C) Core Course  
(B) Breadth Course  
(AtC) Across the Curriculum

(S) Spring Only Course  
(F) Fall Only Course  
(E) Even Years  
(O) Odd Years

<b>Total Credits: 121</b>
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<b>Breadth &amp; AtC Requirements</b>	<b>Course(s)</b>
History (African-American Experience /Multicultural)	
Literature (African-American Experience /Multicultural)	
Social Science	PSYC 201
Arts/Humanities Elective 1 (African-American Experience /Multicultural)	
Arts/Humanities Elective 2 (African-American Experience /Multicultural)	
African-American Experience (History/Literature/Art/Free Elective)	
Multicultural 1 (History/Literature/Social Science/Art/Free Elective)	Intro to Sociology
Multicultural 2 (History/Literature/Social Science/Art/Free Elective)	
Reading/Speaking/Listening Across the Curriculum	CHEM 407/408
Self-Evaluation	PSYC 201
Wellness	PSYC 201
Information Literacy	CHEM 460
Computer Competency	CHEM 460
Writing in Major	CHEM 460
Quantitative Reasoning	CHEM 303/304 and CHEM 305
Global Issues	CHEM 406
Critical Thinking/Problem Solving Issues	CHEM 305



<b>Breadth &amp; AtC Requirements</b>	<b>Course(s)</b>
History (African-American Experience /Multicultural)	
Literature (African-American Experience /Multicultural)	
Social Science	PSYC 201
Arts/Humanities Elective 1 (African-American Experience /Multicultural)	
Arts/Humanities Elective 2 (African-American Experience /Multicultural)	
African-American Experience (History/Literature/Art/Free Elective)	
Multicultural 1 (History/Literature/Social Science/Art/Free Elective)	Intro to Sociology
Multicultural 2 (History/Literature/Social Science/Art/Free Elective)	
Reading/Speaking/Listening Across the Curriculum	CHEM 407/408
Self-Evaluation	PSYC 201
Wellness	PSYC 201
Information Literacy	CHEM 460
Computer Competency	CHEM 460
Writing in Major	CHEM 460
Quantitative Reasoning	CHEM 101/102, 303/304 and CHEM 305
Global Issues	CHEM 406
Critical Thinking/Problem Solving Issues	CHEM 101/102 and CHEM 305

## **CHEMISTRY (CHEM) (24)**

### **CHEM-100. INTRODUCTORY CHEMISTRY**

**4:3:3**

A course covering the basic concepts of Chemistry, this course is for non-science majors that may have a limited background in math and chemistry, but a strong desire to understand the connections between chemistry and their everyday lives.

Three (3) lecture hours and one (1) three-hour laboratory period per week. Offered Fall, spring semesters.

Credit, four hours.

### **CHEM-101. GENERAL CHEMISTRY I**

**4:3:3**

This course is the first in a two-semester sequence in a comprehensive study of the chemical and physical properties of matter including the fundamental principles of qualitative and quantitative analysis. Topics include atomic theory and bonding, periodicities, stoichiometry, thermochemistry, and states of matter. The course is designed for science and other majors which require a thorough understanding in the fundamentals of chemistry. Three (3) lecture hours and one (1) three-hour laboratory period per week. Offered fall, spring and summer 1 semesters.

Corequisites: MTSC-121.

Credit, four hours.

### **CHEM-102. GENERAL CHEMISTRY II**

**4:3:3**

This course is the second in a two-semester sequence in a comprehensive study of the chemical and physical properties of matter including the fundamental principles of qualitative and quantitative analysis. Topics include solutions, energetics, dynamics, equilibrium, electrochemistry/redox. The course is designed for science and other majors which require a thorough understanding of the current content knowledge in the fundamentals of chemistry. Three (3) lecture hours and one (1) three-hour laboratory period per week. Offered Fall, Spring and Summer 2 Semesters.

Prerequisites: CHEM-101 with a grade of C or higher.

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. Offered fall semester.

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. Offered spring semester.

Credit, one hour.

**CHEM-200. SOPHOMORE INDEPENDENT STUDY AND RESEARCH****3:0:9**

This course provides an opportunity to conduct independent research under the direction of a faculty member. The research will allow for the development of strong problem-solving skills and laboratory techniques. Students will design experiments, use advanced instrumentation, and interpret their results in consultation with their faculty mentor. At the close of the semester, students will present the results of their research as a poster, paper, or oral presentation. This course does not satisfy the upper level chemistry elective required for chemistry majors. Nine (9) laboratory hours per week.

Prerequisites: CHEM-120, with a grade of C or higher; approval of the supervising faculty member, cumulative GPA of 2.75 or higher.

Credits, three hours.

**CHEM-202. FORENSIC CHEMISTRY****4:3:3**

This course approaches the methods and analyses in the fields of forensics from a fundamental chemical perspective. The course addresses the theory and application of chromatographic, microscopic, and spectroscopic methods in the analysis of trace evidence. Topics include drug analysis, arson investigation, and the analysis of fiber, paint, and gunshot residue. Three (3) lecture hours and one (1) three-hour laboratory period per week. Offered spring semester.

Prerequisites: CHEM- 210, with a grade of C or higher.

Credit, four hours.

**CHEM- 210. ORGANIC CHEMISTRY I****4:3:3**

The course provides students with a basic foundation for understanding organic reactions and their mechanisms. Students will be introduced to basic concepts such as the structure, properties, stereochemistry and nomenclature of organic molecules as well as identity of functional groups. The reactivity of organic molecules with a variety of organic and inorganic reagents will be covered. The course will cover alkene and alkyne reactivity as well as substitution and elimination reactions. Spectroscopic methods for structural determination (NMR, IR, Mass Spec.) will also be covered. This course is designed for chemistry majors or other science majors who require a thorough understanding of organic chemistry concepts. Three (3) lecture hours and one (1) three-hour laboratory period per week. Offered fall and summer I semesters.

Prerequisites: CHEM-102, with a grade of C or higher

Credit, four hours.

**CHEM- 211. ORGANIC CHEMISTRY II****4:3:3**

This course provides a more in depth coverage of the materials coverage on organic reactions of functional groups. Reactions of dienes, aromatics, alcohols, ethers, carbonyls and amines are presented. Discussions focus on the underlying mechanisms of the transformations and understanding how reactions occur. This course is designed for chemistry majors or other science majors who require a thorough understanding of organic chemistry concepts. Three (3) lecture hours and one (1) three-hour laboratory period per week. Offered Spring and Summer II Semesters.

Prerequisites: CHEM- 210, with a grade of C or higher.

Credit, four hours.

**CHEM-300. JUNIOR INDEPENDENT STUDY AND RESEARCH****3:0:9**

This course provides an opportunity to conduct independent research under the direction of a faculty member. The research will allow for the development of strong problem-solving skills and laboratory techniques. Students will design experiments, use advanced instrumentation, and interpret their results in consultation with their faculty mentor. At the close of the semester, students will present the results of their research as a poster, paper, or oral presentation. This course does not satisfy the upper level chemistry elective required for chemistry majors. Nine (9) laboratory hours per week.

Prerequisites: CHEM-211 and CHEM-305, with a grade of C or higher; approval of the supervising faculty member, cumulative GPA of 2.75 or higher.

Credits, three hours.

**CHEM-303. PHYSICAL CHEMISTRY I****4:3:3**

This is the foundation course in the study of physical chemistry, which provides the fundamental concepts and organizing principles that are applied in all aspects of chemistry and related fields. It develops rigorous and detailed explanations of central, unifying concepts in chemistry and contains mathematical models that provide quantitative predictions. Physical chemistry contains the mathematical underpinning to concepts applied in analytical, inorganic, organic, and biochemistry courses, as well as more advanced topics in chemistry. Conceptual topics covered include thermodynamics and equilibria, kinetic theory of gases, and chemical kinetics. Three (3) lecture hours and one (1) three-hour laboratory period per week. Offered Fall Semester.

Prerequisites: CHEM- 211, MTSC-252, PHYS-202, with a grade of C or higher.

Credit, four hours.

**CHEM-304. PHYSICAL CHEMISTRY II****4:3:3**

A more in-depth study of the fundamental physiochemical principles of matter as presented in Physical Chemistry I. Conceptual topics covered include quantum mechanics, spectroscopy, and statistical thermodynamics. Three (3) lecture hours and one (1) three-hour laboratory period per week. Offered Spring Semester.

Prerequisites: CHEM-303, with a grade of C or higher.

Credit, four hours.

**CHEM-305. ANALYTICAL CHEMISTRY****4:3:3**

This is a foundation course in the study of analytical chemistry. Classroom and laboratory experiences in analytical chemistry at the undergraduate level will present an integrated view of chemical, biological methods and instrumental techniques, including their theoretical basis, for solving a variety of real chemical problems. Students will receive a coherent treatment of the various steps of the analytical process, including: problem definition, selection of analytical method, sampling and sample preparation, validation of analytical method, data collection and interpretation, and reporting. Principles of gravimetric, volumetric, potentiometric, and spectrophotometric analysis. Three (3) lecture hours and one (1) three-hour laboratory period per week. Offered Fall Semester.

Prerequisites: CHEM-102, MTSC-122 or higher. Both with a grade of C or higher.

Credit, four hours.

**CHEM-306. INSTRUMENTAL ANALYSIS****4:3:3**

A more in-depth study in the theoretical principles and chemical applications of instrumental methods of analysis. Instrumental methods will include spectroscopy, separations, mass spectrometry, and electrochemistry. Three (3) lecture hours and one (1) three-hour laboratory period per week. Offered Spring Semester.

Prerequisites: CHEM- 211, CHEM-305, with a grade of C or higher

Credit, four hours.

**CHEM-308. INORGANIC CHEMISTRY****4:3:3**

A foundation course in the study of inorganic chemistry. This course provides insight on the structure and characterization of inorganic complexes. Topics covered will be atomic structure, bonding, coordination chemistry of main group and transition elements, organometallic compounds and spectroscopic methods. Three (3) lecture hours and one (1) three-hour laboratory period per week. Offered Spring Semester.

Prerequisites: CHEM- 211, with a grade of C or higher.

Credit, four hours.

**CHEM-310. ENVIRONMENTAL CHEMISTRY****4:3:3**

This is an in-depth study which aims to enable students to understand environmental contamination issues and the underlying chemistry. Basic environmental chemistry theories, common groups of contaminants, and certain evaluating parameters will be introduced to students. This course will provide students with knowledge in the following areas: 1) common environmental contaminants and common parameters used to evaluate environmental quality; 2) source, environmental behaviors/processes, and fate of different kinds of environmental contaminants; and 3) treatment/remediation of contaminated environment media, including water, soil, air and solid waste. Three (3) lecture hours and one (1) three-hour laboratory period per week. Offered Fall Semester in odd years.

Prerequisites: CHEM- 211, with a grade of C or higher.

Credit, four hours.

**CHEM-362. FORENSIC TOXICOLOGY****3:3:0**

Forensic toxicology is the application of the science and study of drugs and poisons to questions that arise in judicial proceedings and involves a wide range of case scenarios including drugs/alcohol and driving, drug facilitated sexual assault, and deliberate/malicious poisoning. Three (3) lecture hours and one (1) three-hour laboratory period per week. Offered Spring Semester in odd years.

Prerequisites: CHEM-302, with a grade of C or higher.

Credit, three hours.

**CHEM-402. ADVANCED ORGANIC CHEMISTRY****3:3:0**

For graduate students or advanced undergraduates who have an in-depth understanding of organic chemistry concepts. This course covers physical organic concepts as well as current synthetic organic methods. Students will be provided with the knowledge to be able to understand and design synthetic approaches to complex molecules in a research laboratory setting. Three (3) lecture hours per week. Offered Fall Semester in even years.

Prerequisites: CHEM-302, with a grade of C or higher.

Credit, three hours.

**CHEM-403. BIOCHEMISTRY****4:3:3**

This is a foundation course in the study of the structural and metabolic relationship of carbohydrates, lipids, amino acids, proteins, nucleic acids, enzymes, and coenzymes. Three (3) lecture hours and one (1) three-hour laboratory period per week. Offered Fall Semester.

Prerequisites: CHEM- 211, with a grade of C or higher.

Credit, four hours.

**CHEM-404. ADVANCED PHYSICAL CHEMISTRY****3:3:0**

A more in-depth treatment of thermodynamics, the elements of quantum and statistical mechanics, chemical kinetics, and selected topics. Three (3) lecture hours per week. Offered Fall Semester in even years.

Prerequisites: CHEM-304, with a grade of C or higher.

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. Offered Fall and Spring Semesters.

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, biochemistry, or green chemistry.

Prerequisites: Senior status in Chemistry. The course may be repeated with the consent of the Department Chair.

Credit, three hours. Offered as a need-only course.

**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. Offered Fall Semester.

Credit, one hour.

**CHEM-408. 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. Offered Spring Semester.

Credit, one hour.

**CHEM-411. STRUCTURAL INORGANIC CHEMISTRY****3:3:0**

This an in-depth course describes the molecular structure and properties of inorganic complexes. Student will study concepts in bonding, trends in periodic properties, molecular symmetry and its relationships to spectra, solid-state, reaction mechanisms, organometallic chemistry, coordination chemistry, and descriptive chemistry of selected elements. The role of inorganic chemistry in the fields of material science, environmental chemistry, and inorganic biochemistry will be introduced. On the technical side, students will be introduced to X-ray diffraction techniques, XPS, Raman, and other basic instruments used in research laboratories. Offered Fall Semester in odd years.

Prerequisites: CHEM 308, with a grade of C OR HIGHER,  
Credit, three hours.

**CHEM-421. ADVANCED BIOCHEMISTRY****3:3:0**

The course covers an advanced study of biochemical reactions and reactions mechanisms.

Prerequisites: CHEM 403, with a grade of C or higher. Offered Spring Semester in even years.  
Credit, three 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. Offered Fall Semester.  
Credit, one hour.

**CHEM-462. CHEMICAL TOXICOLOGY****3:3:0**

An in-depth 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. Three lectures per week. Offered Spring Semester in even years.

Prerequisites: CHEM-403, with a grade of C or higher. Credit, three hours.

**CHEM-469. POLYMER CHEMISTRY****3:3:0**

This is an in-depth course which addresses the fundamental synthesis, production, and characterization of polymer materials. Topics include polymerization and reactions of polymers, structure and properties of polymers, polymer processing and fabrication, biological and commercial polymers. Three lecture hours per week. Offered fall semester in even years.

Prerequisites: CHEM- 211 with a grade of C or higher.  
Credit, three hours.

## DEPARTMENT OF COMPUTER AND INFORMATION SCIENCES

**Chair:** Rasamny

**Professors:** Pokrajac

**Associate Professors:** Holness, Kong, Lin, Milutinovic, Rasamny (Chair), Smolinski

**Lecturer:** Patel

**Secretary:** Rozena Hawkins

The vision of the Department of Computer and Information Sciences is to become highly recognized throughout Delaware, the nation, and the world for its excellence in education, mentoring, and research. The Department will strive to create a synergistic learning and research environment that produces independent thinkers and life-long learners who will contribute effectively to the solution of pressing scientific problems that drive the development and sustainability of the local and global economies.

The mission of the Department of Computer and Information Sciences, consistent with that of the College of Mathematics, Natural Sciences, and Technology, is to provide graduate and undergraduate students with high quality instruction in the fundamentals and recent advances in computer science and information technology; cultivate student's abilities to formulate and solve problems, manage complexity, and provide a solid foundation for a lifetime of learning; conduct cutting-edge research and foster graduate and undergraduate research mentoring and training; expand scientific knowledge and contribute to scientific fields through innovative and supportive domestic and international partnerships within academia, industry, government, and nonprofit organizations; improve computer science education by engaging in K-12 and community outreach.

The Department believes that certain core values are fundamentally essential to embrace in order for the department's community to be successful. The Department is committed to the pursuit of excellence and expects the same from faculty, staff, and students. The Department strives to promote an environment that encourages innovation, creativity, and leadership among faculty, staff and students and expects they operate with mutual respect and integrity. Every member of the department is expected to operate at the highest ethical and professional standards. The Department prides itself in its diverse student body, faculty, and staff. The Department ensures that they have access to the facilities, journals, and tools necessary to conduct research, research-based training, and other opportunities leading to success. The Department observes and preserves the right of all members to practice their academic and intellectual freedom and maintains a caring, nurturing, and respectful environment in which such freedoms may be exercised. The Department encourages its members to become active volunteers in the community, providing service, outreach, and leadership where possible.

The Department aims to provide students with courses of studies directed toward an understanding of computing and its relation to other fields of study. Our programs are focused on developing critical, computational, and algorithmic thinking to form a core skill set useful in all aspects of technology.

The Department offers two undergraduate programs, B.S. in Computer Science and B.S. in Information Technology. The decision as to which program of study to choose is dependent on the student's objective after matriculation. Advisors assigned to students in the Department help in designing a plan of study that accomplishes a student's objectives.

Students who select a major in the Department must obtain a "C" or better in all courses required in their curriculum in order for the requirement to be met; this includes all general education courses (Please see curricula for further details). Students may not enroll in any course without first obtaining a "C" or better in prerequisite courses.

## CURRICULUM OPTIONS FOR MAJORS

**COMPUTER SCIENCE:** The requirements for a major in Computer Science are: CSCI 110,111, 120, 121, 210, 211, 230, 280, 295, 320, 330, 340, 350, 370, 380, 480, 485, 486, 495, and INFO 340; a minimum of nine (9) hours from CS, IT or an area approved by advisor.

**ELECTIVES:** 225, 345, 355, 374, 375, 376, 410, 420, 440, 445, 450, 455, 460, 461, 470, 487, 488.

**INFORMATION TECHNOLOGY:** The requirements for a major in Information Technology are: CSCI 110, 111, 120, 121,210, 211, 230, 280, 295, 320, 330, 340, 350, 370; INFO 220, 230, 240, 295, 320, 340, 380, 420, 495; a minimum of nine (9) hours from CS, IT, or an area approved by advisor.

**ELECTIVES:** 330, 331, 335, 440, 450, 470.

### 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-120</b>	<b>Elements of Computer Programming I</b>	<b>4</b>
<b>CSCI- 121</b>	<b>Elements of Computer Programming II</b>	<b>4</b>
<b>CSCI- 210</b>	<b>Data Structures and Algorithms I</b>	<b>4</b>
<b>CSCI- 211</b>	<b>Data Structures and Algorithms II</b>	<b>3</b>
<b>CSCI- 340</b>	<b>Database Systems</b>	<b>3</b>
<b>CSCI- 330</b>	<b>Data Networks</b>	<b>3</b>

**MINOR IN INFORMATION TECHNOLOGY:** Twenty (20) hours distributed as follows:

Course No.	Title	Credits
<b>CSCI-120</b>	<b>Elements of Computer Programming I</b>	<b>4</b>
<b>CSCI- 121</b>	<b>Elements of Computer Programming II</b>	<b>4</b>
<b>CSCI- 210</b>	<b>Data Structures and Algorithms I</b>	<b>4</b>
<b>CSCI-340</b>	<b>Database Management Systems</b>	<b>3</b>
	<b>IT/CS Electives at 300 level or above</b>	<b>6</b>

## CURRICULUM IN COMPUTER SCIENCE

<b>First Year</b>					
<b>First Semester</b>			<b>Second Semester</b>		
CSCI-191©	University Seminar I	1	CSCI-192©	University Seminar II	1
CSCI-110©	Computational Thinking I	2	CSCI-111©	Computational Thinking II	2
CSCI-120©	Elements of Computer Programming I	4	CSCI-121©	Elements of computer Programming II.	4
ENGL-101©	English Composition I	3	ENGL-102©	English Composition II	3
MTSC-251©	Calculus I	4	MVSC-101©	Lifetime Fitness and Wellness	2
			CSCI-252	Calculus II	4
		<b>15</b>			<b>16</b>
<b>Second Year</b>					
CSCI-210	Data Structures and Algorithms I	4	CSCI-211	Data Structures and Algorithms II	3
ENGR-210©	Digital Logic Design	4	CSCI-230©	System Architecture	3
HIST©	History (M/AE)	3	CSCI-280	Discrete Structures	3
LIT©	Literature (M/AE)	3	CSCI-295©	Mid-Program Project*	1
MTSC-213	Discrete Mathematics I	3	PSYC-201	Introduction to Psychology	3
		<b>17</b>			<b>13</b>
<b>Third Year</b>					
CSCI-320©	Operating Systems	3	CSCI-330©	Computer Networking	3
CSCI-340©	Database Systems*	3	CSCI-350©	Data Analytics*	3
CSCI-370©	Stochastic Computing*	3	CSCI-380©	Principles of Programming Lang.	3
PHYS-211©	Fundamentals of Physics I	3	INFO-340©	Introduction to Information Security*	3
MSTC-313©	Linear Algebra	4	AE©	Area Elective	4
		<b>16</b>			<b>15</b>
<b>Fourth Year</b>					
CSCI-480	Software Engineering Design*	3	CSCI-486©	Theory of Computing	3
CSCI-485 ©	Analysis of Algorithms	3	CSCI-495©	CS Capstone Project	3
AE©	Area Elective	3	AE©	Area Elective	3
ENGL-200	Speech	3	GLOB-395©	Global Societies	3
AH©	Arts and Humanities (M/AE)	3	AH©	Arts and Humanities (M/AE)	3
		<b>15</b>			<b>15</b>

**TOTAL CREDIT HOURS:            121**

+ Courses must be from Computer Science, Information Technology, or Mathematics above 300 level.

^ Senior Capstone course.

© A grade of 'C' or better is required to pass.

**Across The Curriculum (A-t-C) Outcomes List  
Computer Science**

<b>A-t-C Outcome</b>	<b>Course(s)</b>	<b>Course Name(s)</b>
<b>Reading</b>	<b>CSCI-330</b>	Computer Networking
<b>Writing Intensive or Writing in Major (outside capstone)</b>	<b>CSCI-295</b>	MidProgram Project
<b>Speaking – Oral Communication – Presentation</b>	<b>INFO-495 CSCI-495</b>	CS Capstone Project
<b>Speaking – Oral Communication – Discussion</b>	<b>CSCI-110</b>	Computational Thinking I
<b>Listening</b>	<b>CSCI-211</b>	Data Structures and Algorithms II
<b>Computer Competency</b>	<b>CSCI-120</b>	Elements of Computer Programming I
<b>Information Literacy</b>	<b>CSCI-295 INFO-295 CSCI-495 INFO-495</b>	MidProgram Project CS Capstone Project
<b>Critical Thinking/Problem Solving</b>	<b>CSCI-350</b>	Data Analytics
<b>Quantitative Reasoning</b>	<b>MTSC-213</b>	Discrete Mathematics I
<b>Multicultural</b> 6 credits (choose two)	<b>HIST-101 HIST-102 HIST-205 ENGL-201 ENGL-202 PHIL-XXX All World Languages</b>	World History to 16th Century World History from 16th Century Themes in World History World Literature I World Literature II All Philosophy Courses without prerequisites All World Languages
<b>African-American Experience</b>	<b>HIST-203 HIST-204 ENGL-205 ENGL-206 MUSC-100 ART-316</b>	African American History to 1865 African American History from 1865 African-American Literature I African-American Literature II African-American Music African-American Art
<b>Self-Evaluation</b>	<b>PSYC-201</b>	Introduction to Psychology
<b>Wellness</b>	<b>PSYC-201</b>	Introduction to Psychology
<b>Global Issues</b>	<b>CSCI-330 INFO-340</b>	Computer Networking Introduction to Information Security

## CURRICULUM IN INFORMATION TECHNOLOGY

### First Year

First Semester			Second Semester		
CSCI-191©	University Seminar I	1	CSCI-192©	University Seminar II	1
CSCI-110©	Computational Thinking I	2	CSCI-111 ©	Computational Thinking II	2
CSCI-120©	Elements of Computer Prog. I	4	CSCI-121 ©	Elements of Computer Prog. II	4
ENGL-101©	English Composition I	3	ENGL-102©	English Composition II	3
MTSC-251©	Calculus I	4	MVSC-101©	Lifetime Fitness & Wellness	2
©			AH©	Arts and Humanities (M/AE)	3
<b>14</b>			<b>15</b>		

### Second Year

CSCI-210©	Data Structures and Algorithms I*	4	CSCI-211	Data Structures and Algorithms II*	3
INFO-220©	System Administration I	4	CSCI-230©	System Architecture	3
ENGR-210©	Digital Logic Design	4	INFO-230©	Introduction to Web Development	3
MTSC-213©	Discrete Mathematics	3	INFO-240©	Database Administration*	3
			INFO-295	Mid-Program Project*	1
		<b>15</b>	LIT©	Literature	<b>3</b>
<b>15</b>			<b>16</b>		

### Third Year

CSCI-320©	Operating Systems*	3	CSCI-330©	Computer Networking	3
CSCI-340©	Database Systems*	3	CSCI-350©	Data Analytics*	3
CSCI-370©	Stochastic Computing	3	INFO-320 ©	System Administration II	3
INFO-380©	Human Computer Interaction*	3	INFO-340	Introduction to Information Security*	3
PHYS-211©	Fundamentals of Physics	4	AEC©	Area Elective <sup>+</sup>	3
<b>16</b>			<b>15</b>		

### Fourth Year

CSCI-480©	Software Engineering Design*	3	INFO 495©	IT Capstone Project	3
INFO-420©	System Integration*	3	GLOB-395©	Global Societies	3
ENGL-200©	Speech	3	HIS©	History (M/AE)	3
PSYC-201©	Introduction to Psychology	3	AH©	Arts and Humanities (M/AE)	3
AEC©	Area Elective <sup>+</sup>	3	AEC©	Area Elective	<b>3</b>
<b>15</b>			<b>15</b>		

**TOTAL CREDIT HOURS:            121**

^ Senior Capstone course.

\* Writing intensive course.

© A grade of 'C' or better is required to pass.

**Across The Curriculum (A-t-C) Outcomes List  
Information Technology**

<b>A-t-C Outcome</b>	<b>Course(s)</b>	<b>Course Name(s)</b>
<b>Reading</b>	<b>CSCI-330</b>	<b>Computer Networking</b>
<b>Writing Intensive or Writing in Major (outside capstone)</b>	<b>CSCI-295</b>	<b>Mid Program Project</b>
<b>Speaking – Oral Communication – Presentation</b>	<b>INFO-495 CSCI-495</b>	<b>CS Capstone Project</b>
<b>Speaking – Oral Communication – Discussion</b>	<b>CSCI-110</b>	<b>Computational Thinking I</b>
<b>Listening</b>	<b>CSCI-211</b>	<b>Data Structures and Algorithms II</b>
<b>Computer Competency</b>	<b>CSCI-120</b>	<b>Elements of Computer Programming I</b>
<b>Information Literacy</b>	<b>CSCI-295 INFO-295 CSCI-495 INFO-495</b>	<b>Mid Program Project CS Capstone Project</b>
<b>Critical Thinking/Problem Solving</b>	<b>CSCI-350</b>	<b>Data Analytics</b>
<b>Quantitative Reasoning</b>	<b>MTSC-213</b>	<b>Discrete Mathematics I</b>
<b>Multicultural 6 credits (choose two)</b>	<b>HIST-101 HIST-102 HIST-205 ENGL-201 ENGL-202 PHIL-XXX All World Languages</b>	<b>World History to 16th Century World History from 16th Century Themes in World History World Literature I World Literature II All Philosophy Courses without prerequisites All World Languages</b>
<b>African-American Experience</b>	<b>HIST-203 HIST-204 ENGL-205 ENGL-206 MUSC-100 ART-316</b>	<b>African American History to 1865 African American History from 1865 African-American Literature I African-American Literature II African-American Music African-American Art</b>
<b>Self-Evaluation</b>	<b>PSYC-201</b>	<b>Introduction to Psychology</b>
<b>Wellness</b>	<b>PSYC-201</b>	<b>Introduction to Psychology</b>
<b>Global Issues</b>	<b>CSCI-330 INFO-340</b>	<b>Computer Networking Introduction to Information Security</b>

## **COMPUTER SCIENCE (CSCI) (35)**

### **CSCI-110. COMPUTATIONAL THINKING I**

**2:2:1**

This course exposes students to abstract and algorithmic thinking via a series of experiments designed around computer science problem solving techniques. Students will be required to formulate problems and solutions and present these solutions so that it is reproducible by a non-electronic information processing agent. Through this approach, students will be introduced, at an elementary level, to mathematical, computational, and engineering problem solving techniques.

Prerequisite: None.

Credits, two hours.

### **CSCI-111.COMPUTATIONAL THINKING II**

**2:2:1**

This course, like its prerequisite, exposes students to abstract and algorithmic thinking via a series of experiments designed around computer science problem solving techniques. Students will be required to formulate problems and solutions and present these solutions so that it is implementable on a computing device. Through this approach, students will be introduced, at an elementary level, to mathematical, computational, and engineering problem solving techniques. Students will be exposed to UML and other diagramming tools, problem modeling, pseudo code, translation of pseudo code to and implementation language, incremental development and testing. In addition, students will apply computational thinking techniques to intelligent systems, mobile computing, and databases

Prerequisite: CSCI-110

Credits, two hours.

### **CSCI-120. ELEMENTS OF COMPUTER PROGRAMMING I**

**4:3:1**

This course presents fundamental software development and computational methods, and 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 foundation for achieving advanced programming skills. The course covers various concepts in procedural programming including procedural decomposition and parameterization, variables, arrays, conditional execution, loops, recursion, as well as file processing

Prerequisite: Able to enroll in MTSC-121 or higher

Credits, four hours.

### **CSCI-121. ELEMENTS OF COMPUTER PROGRAMMING II**

**4:3:1**

This continuation introductory course, building on its prerequisite, enhances the students' understanding and ability to use computational methods to solve various problems. The course introduces important concepts and principles in object-oriented modeling and programming to supply the students with more advanced programming skills. The course covers various concepts in object-oriented programming including object-oriented decomposition and abstraction, classes and objects, properties and methods, inheritance and polymorphism, encapsulation and message passing, operator overloading, as well as computer memory management. It also introduces a second programming language. Prerequisite: CSCI-120 Co-requisite: CSCI-111.

Credits, four hours.

### **CSCI-210. DATA STRUCTURES AND ALGORITHMS I.**

**4:3:1**

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. The course presents fundamental computing algorithms and their associated data structures and abstraction. The course combines the concepts of information organization, information manipulation, and algorithms. Prerequisite: CSCI-121.

Credits, four hours.

### **CSCI-211. DATA STRUCTURES & ALGORITHMS II**

**3:3:1**

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 course continues with introducing more advanced computing algorithms and data structures. The course also introduces the mathematical framework for the analysis of algorithm efficiency. Topics include analysis of algorithms, trees, self-balancing search trees, sets and maps, hashing, and graphs.

Prerequisite: CSCI-210.

Credits, three hours.

**CSCI-225. 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-230. SYSTEM ARCHITECTURE****3:3:0**

Main topic of this course includes: data representation of characters, integers and real numbers in computer system, logic gates, sequential circuits, instruction set architecture, machine and assembly language, hardware organization, addressing techniques, cache memory, input/output, alternative and emerging computer architectures. Other related concepts will also be discussed: error detection and correction, network, and operating system.

Prerequisite: MTSC-213 or ENGR-210, CSCI-210

Credits, three hours.

**CSCI-280. DISCRETE STRUCTURES****3:3:0**

This course provides fundamental concepts for theoretical basis and applications of computer science. Topics include set theory, functions, relations, counting, probability, graphs and trees, analysis of algorithm efficiency, regular expressions and finite-state automata.

Prerequisite: MTSC-213.

Credits, three hours.

**CSCI-295. MID-PROGRAM PROJECT****1:1:0**

The main topic of this course include: software development models, scheduling and project management tools, high level design and engineering tradeoffs, rapid prototyping, cost benefit analysis, development of models and algorithms, pitching and presenting your project, testing and validation. Other related concepts will also be discussed: middle-ware, service-oriented architectures, open source, and distributed development tools.

Prerequisite: CSCI-111, CSCI-210, MTSC-251.

Credits, one hour.

**CSCI-320. OPERATING SYSTEMS****3:3:0**

This course focuses on the study of fundamental concepts that are used in and applicable to a variety of operating systems. The course consists of three major concepts: (1) process management that schedules, executes, synchronizes with events, and terminates your application programs, (2) memory management that loads your programs in memory and allocates/reallocates memory space they requested dynamically, and (3) storage management that provides the mechanism for on-line storage of and access to both data and programs residing on the disks. The course also covers protection and security (if time is allowed) which are essential to have the modern operating systems work in the Internet computing world. Students will implement several major concepts including process management and memory management in the class projects.

Prerequisite: CSCI-211, CSCI-230

Credits, three hours.

**CSCI-330. COMPUTER NETWORKING.****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- 211

Credits, three credits.

**CSCI-340. DATABASE SYSTEMS.****3:3:0**

This course is a practical, hands-on preparation for future database designers and developers. Topics include conceptual, logical and physical organizations of large sets of related data, database descriptions, data models, data definition and manipulation languages, query languages, relational algebra, and database application-oriented projects.

Prerequisite: CSCI-121 or CSCI-225

Credits, three hours.

**CSCI-345. ETHICAL HACKING.****3:3:0**

This course provides students subtle skills in cyber security. The course includes twenty-four hands-on labs that cover common network attacks, applications of information security concepts, security assessment of wired and wireless networks, web applications and intrusions. The course also covers topics in countermeasures to attacks, lifecycle of incident response, real world case studies, pen test tools, mobile hacking, and several mobile forensics tools.

Prerequisite: None.

Credits, three hours.

**CSCI-350. DATA ANALYTICS.****3:3:0**

Students entering this course are expected to be familiar with high-level procedural language such as Java or C/C++, and a scripting language such as Python. Students must have the mathematical maturity to be able to model and implement mathematical expressions in software. The main topics of this course include: the representation, manipulation, visualization, analysis, and presentation of data.

Prerequisite: CSCI- 211, CSCI-370, MSTC-251.

Credits, three hours.

**CSCI-355. INTRODUCTION TO BIOINFORMATICS****3:3:0**

Introduction of the most important and basic concepts, methods, and tools used in bioinformatics such as bioinformatics databases, sequence and structure alignment, protein structure prediction, protein folding, protein-protein interaction.

Prerequisite: CSCI- 340.

Credits, three hours.

**CSCI-370. STOCHASTIC COMPUTING****3:3:0**

This course is designed to cover a variety of important topics related to application of stochastic methods in computer science. The course includes theoretical principles necessary to understand use of stochastic methods, including notions of probability, distributions and statistical estimation and testing. The course emphasizes the practical aspects of stochastic methods in fields such as networking and pattern recognition. Mathematical details are covered to a minimal extent, needed to support the main ideas of the introduced algorithms. The students will be provided with hands-on experience in programming stochastic techniques in languages such as C/C++ and Matlab, and overview of statistical software such as SAS and SPSS.

Prerequisite CSCI-280, MTSC-251.

Credits, three hours.

**CSCI-374. INTRODUCTION TO GAME PROGRAMMING****3:3:0**

The goals of this course are to provide introductions to event driven programming, game engine scripting, interactivity, animation, sound, resource management, constraints, networking capabilities, artificial intelligence and physics for games, and game development tools.

Prerequisite CSCI- 211

Credits, three hours.

**CSCI-375. 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- 211. MTSC-313.

Credits, three hours.

**CSCI-376. INTERMEDIATE GAME PROGRAMMING****3:3:0**

This course targets the creation of game assets including textures, sprites, 3D models, and animations. The course develops playable games using commercial game engines such as Unity3D and other professional tools.

Prerequisite CSCI- 375

Credits, three hours.

**CSCI-380. PRINCIPLES OF PROGRAMMING LANGUAGES.****3:3:0**

This course is a formal comparative study of programming languages and concentrates on syntactic and semantic issues in the design and implementation of a programming language. Topics include regular expressions, Backus-Naur Form, grammars, parse trees, lexical analysis, parsing, overview of families of programming languages, introduction to functional

languages, scopes, variables, types, selection statements, iterative statements, overview of object-oriented programming, trade-offs in the design and implementation of languages.

Prerequisite: CSCI-211.

Credits, three hours.

**CSCI-410. INTRODUCTION TO ROBOTICS.**

**3:3:0**

This course will survey key topics in mobile robotics as students learn, through a series of hands-on lab experiments, design and implement a series of increasingly complex components culminating in an autonomous mobile robot. Topics include history, sensors and actuators, robot middle-ware, kinematics, feedback control systems, basis behaviors, machine perception, task analysis and decomposition, reactive architectures, robot learning, robot teams, semester project.

Prerequisite: CSCI-211, CSCI-295, CSCI-320, MTSC-251.

Credits, three hours.

**CSCI-420. COMPILER CONSTRUCTION**

**3:3:0**

Principles and practices for design and implementation of compilers and interpreters. Topics includes 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-211, CSCI-380.

Credit, three hours.

**CSCI-430. PARALLEL COMPUTING**

**3:3:0**

The purpose of this course is to introduce students to fundamentals of parallel computing. The course provides an overview of parallel programming models and architectures, as well as the principles of parallel algorithm design and analysis.

Prerequisite: CSCI- 211, CSCI-380

Credits, three hours.

**CSCI-440. COMPUTER AND NETWORKING SECURITY**

**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- 320, INFO-350.

Credits, three hours.

**CSCI-445. DIGITAL FORENSICS**

**3:3:0**

The knowledge of digital forensics has become essential in securing today's network-centric computing environment. This course will give the students both the fundamental knowledge and hands-on practice on digital forensics. The added exposure to forensics will enhance the marketability of our students and serve the students who carry the skills and knowledge forward into their future careers. Upon completing this course, the students are expected to understand the basics of digital forensics, to be well-trained as next-generation computer crime investigators, and to be prepared for active professional development at the forefront of these areas.

Prerequisite: CSCI-320, CSCI-330.

Credits, three hours.

**CSCI-450. DATA MINING.**

**3:3:0**

The purpose of this course is to introduce students to fundamentals of data mining (DM) and knowledge discovery in databases (KDD). In addition to covering such topics as data types and other characteristics, data quality and pre-processing, basic statistical data analysis, frequent patterns and associations, classification and prediction, and cluster analysis, special emphasis will be placed on integration of database technologies with algorithms for efficient and non-trivial querying.

Prerequisite: CSCI-340, MTSC-370.

Credits, three hours.

**CSCI-455. INTRODUCTION TO COMPUTATIONAL INTELLIGENCE**

**3:3:0**

This course provides an introduction to the fundamental concepts, techniques, and applications of computational intelligence. The course also provides an overview of the most important paradigms of computational intelligence, including neurocomputing, approximate reasoning, evolutionary computing, and swarm intelligence.

Prerequisite: MTSC-252.

Credits, three hours.

**CSCI-460. MACHINE LEARNING.****3:3:0**

Machine Learning concerns the design and development of algorithms that allow computational systems to adapt behaviors or improve performance based on empirical data such as from sensors or databases. This class will provide a rigorous introduction to Machine Learning covering key topics and a variety of application areas to reinforce the covered material. Subject areas will include feature space and data representation, probabilities and Bayesian models, information theoretic measures, algorithms for clustering and classification, bias-variance and issues concerning model fitting, supervised and unsupervised learning, and latent variables and expectation-maximization.

Prerequisite: CSCI-430.

Credits, three hours.

**CSCI-461. ARTIFICIAL INTELLIGENCE.****3:3:0**

This course will provide students with a comprehensive overview of the major ideas that have emerged over decades of AI research. This overview will present students with strategies, techniques, algorithms, and considerations for the design of software or systems that reason and act from their own percepts.

Prerequisite: CSCI-211, CSCI-280, CSCI-370.

Credits, three hours.

**CSCI-470. ADVANCED STOCHASTIC COMPUTING****3:3:0**

This course is an advanced undergraduate level to stochastic computing. It provides deeper insight into theoretical foundations and applications and implementations of stochastic techniques and methods. Course is especially geared towards applications in pattern recognition, simulations and robotics and serves to prepare a student for start of their career in industry and graduate education.

Prerequisite: CSCI-370, MTSC-252, MTSC-313.

Credits, three hours.

**CSCI-480. SOFTWARE ENGINEERING.****3:3:0**

This course presents theory, method and practice for developing computer software. It covers software development life cycle including requirements collection, specification and analysis, software process models, architecture design, prototyping, user interface design, programming methodology, and software testing. It also teaches students how to use various development tools, environments and frameworks. Emphasis will be on design and documentation instead of coding.

Prerequisite: CSCI-211.

Credits, three hours.

**CSCI-485. ANALYSIS OF ALGORITHMS.****3:3:0**

This courses provides an in-depth analysis of data structures and algorithms and introduces computational complexity and design of efficient data-handling procedures. Topics include divide and conquer approaches, lower bound for sorting and overview of sorting in linear time, algorithms for data structures, design techniques, dynamic programming, greedy algorithms, multithreaded algorithms, algorithms for GPU, complexity classes, and introduction to NP completeness.

Prerequisite: CSCI-211, CSCI-280.

Credits, three hours.

**CSCI-486. THEORY OF COMPUTING.****3:3:0**

This course focuses on finite automata, formal languages, limits of algorithmic computation, and some aspects of computational complexity.

Prerequisites: CSCI-280.

Credit, three hours.

**CSCI-487. GRAPH THEORY.****3:3:0**

Graph theory algorithms and applications to the areas of computer science.

Prerequisite: CSCI-211, CSCI-280.

Credits, three hours.

**CSCI-488. TECHNIQUES OF OPTIMIZATION.****3:3:0**

The course will expose students in computer science to linear programming, non-linear programming, and different optimization techniques.

Prerequisite: CSCI-211, CSCI-280, MTSC-313.

Credits, three hours.

**CSCI-495. CS CAPSTONE PROJECT.****3:3:0**

This course is a senior capstone course. Students will provide evidence of achieving the learning objectives of the program by engaging in a research project under the mentorship of a faculty member in the department. A student in the course is required to submit a prospectus, proposal, and a deliverable defined by the faculty mentor. In addition, a final presentation is required to the department.

Prerequisite: CSCI-320, CSCI-330, CSCI-340, CSCI-480.

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.

**CSCI-498. STUDY ABROAD.****3:3:0**

Computing solutions are often culture dependent and having an understanding of general intercultural communication techniques is vital in preparing the student for the different views, values, and customs that make up our global economy. This course is designed to expose students to this global cultural perspective applied to a computing related discipline.

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-220. SYSTEM ADMINISTRATION I**

**4:4:0**

This course provides an introduction to system administration, user management, and service implementation. The course also provides hands-on experience with network configuration, file and user management, and security. Students will be exposed to automating common administration tasks using various scripting languages.

Prerequisite: CSCI-121.

Credits, four hours.

### **INFO-320. INTRODUCTION TO WEB DEVELOPMENT**

**3:3:0**

This course's emphasis is on the design and implementation of web front-end with an introduction to back-end programming. Students develop skills for building user-friendly and visually attractive web pages through the use of emerging technologies for web development. Students study usability issues of the web, user-centered design, and methods for visual layout and information architecture. Popular development tools and web application frameworks will be introduced.

Prerequisite: CSCI-210.

Credits, three hours.

### **INFO-240. DATABASE ADMINISTRATION**

**3:3:0**

This course provides practical, hands-on preparation for future database administrators. Topics include basics of database design, fundamentals of the Structured Query Language (SQL), physical storage of databases, installation and configuration of database management systems, data migration and integration, managing users and privileges, and performance management.

Prerequisite: -INFO-220.

Credits, three hours.

### **INFO-295. MID-PROGRAM PROJECT**

**3:3:0**

Students entering this course are expected to be familiar with high-level procedural language such as Java or C/C++ or a scripting language such as Python. Students must also be comfortable interacting with a computing system through the command line. The main topic of this course include: software development models, scheduling and project management tools, high level design and engineering tradeoffs, rapid prototyping, cost benefit analysis, development of models and algorithms, pitching and presenting your project, testing and validation. Other related concepts will also be discussed: middle-ware, service-oriented architectures, open source, and distributed development tools.

Prerequisite: CSCI-111, CSCI-210, MTSC-251.

Credits, three hours.

### **INFO-320. SYSTEM ADMINISTRATION II.**

**3:2:1**

This course provides an introduction to system administration, user management, and service implementation for a small to medium-size organization. The course also provides hands-on experience with network configuration on systems that utilizes a distributed file and user management system. The course addresses various security issues that are inevitable when connected to the Internet. Students will be exposed to automating common administrative tasks using various scripting languages across distributed networks.

Prerequisite: INFO-220.

Credits, three hours.

**INFO-330. DATA-DRIVEN WEB APPLICATION.****3:3:0**

This course emphasizes web server-side processing. Students study the user's interactions with databases, learning about querying via the database language SQL. Through a succession of projects, students learn how to apply this understanding to the creation of an interactive, data-driven site via current technologies and various kinds of databases. Design and usability issues are emphasized. A major component of the course is the creation of a substantial website.

Prerequisite: INFO-230.

Credits, three hours.

**INFO-331. TECHNOLOGIES FOR DEVELOPING WEB SYSTEMS.****3:3:0**

This course covers new and emerging technologies for creating websites and web systems. Students become more familiar with various front-end and back-end technologies for various platforms. Emphasis will be given to web system frameworks and front-end script programming.

Prerequisite: INFO-330.

Credits, three hours.

**INFO-335. MOBILE COMPUTING.****3:3:0**

This course will introduce students to mobile computing and mobile application development. Mobile computing will be discussed from three perspectives: mobile technology, application development, and user interaction. The course will provide an overview of various mobile computing applications, technologies, and wireless communication. Students will learn about common paradigms in mobile computing such as low power computing, computing in an environment with limited resources, fault tolerance, and persistence. Students will be introduced to and use mobile application frameworks and development environments to reinforce these concepts. User interface and user experience will be discussed and application development guidelines from various vendors will be discussed and analyzed. Students will be expected to learn at least one mobile application development framework and use it to implement their assignments and course project.

Prerequisite: CSCI-211, CSCI-340.

Credits, three hours.

**INFO-340. INTRODUCTION TO INFORMATION SECURITY****3:3:0**

This course provides an introduction to the various basic technical and administrative aspects of Information Security, and addresses the foundation for understanding the key issues associated with protecting information assets, determining the levels of protection and response to security incidents, and designing security mechanisms. Topics covered include: systems security, secure software life cycle, risk analysis, operating system security, database security, network security, and system threats, programming and testing for software security.

Prerequisite: CSCI-320

Credits, three hours.

**INFO-380. HUMAN COMPUTER INTERACTION****3:3:0**

Human-computer interaction (HCI) is a discipline concerned with the design, evaluation and implementation of interactive computing systems for human use and with the study of major phenomena surrounding them. Interaction between users and computers occurs at the interface, which includes hardware, software general-purpose computer peripherals, and large-scale mechanical systems such as aircraft and power plants. The study of HCI is often regarded as the intersection of computer science, behavioral sciences, design, and several other fields of study.

Prerequisite: CSCI-211.

Credits, three hours.

**INFO-420. SYSTEM INTEGRATION****3:3:0**

The main topic of this course include: requirements gathering, project management tools, systems design and diagramming, systems integration frameworks, project management techniques, rapid prototyping tools and design consideration, testing and validation techniques. Other related concepts will also be discussed: middle-ware, service-oriented architectures, open source, and distributed development tools.

Prerequisite: CSCI-320, CSCI-330, INFO-220.

Credits, three hours.

**INFO-440. INFORMATION SYSTEMS SECURITY****3:3:0**

This course provides a deep and comprehensive study of the security principles and practices of information systems. Topics include basic information security concepts, common attacking techniques, common security policies, basic cryptographic tools, authentication, access control, software security, operating system security, and legal and ethical issues in information systems security.

Prerequisite: CSCI-320, CSCI-330, INFO-340.

Credits, three hours.

**INFO-450. DATA WAREHOUSING.****3:3:0**

This course provides students with the technical skills required to plan, implement, and maintain a data warehouse. Topics include data modeling for warehouses, data warehousing infrastructure and tool selection, data exploration, data synthesis and reduction, Online Analytical Processing (OLAP), organizational metadata, and data warehouse administration.

Prerequisite: CSCI-340.

Credits, three hours.

**INFO-470. DISTRIBUTED COMPUTING.****3:3:0**

The course is designed to provide a foundational understanding of the underlying principles and design of distributed systems, combined with the application of these principles to develop the features of cloud computing. Subject areas include: system models, remote program invocation, web services, virtualization, distributed data and transactions, distributed system security, web services, and data center networking.

Prerequisite: CSCI-320.

Credits, three hours.

**INFO-495. IT CAPSTONE PROJECT****3:3:0**

This course is a senior capstone course. Students will provide evidence of achieving the learning objectives of the program by engaging in a research project under the mentorship of a faculty member in the Department. A Student in the course is required to submit a prospectus, proposal, and a deliverable defined by the faculty mentor. In addition, a final presentation is required to the Department. Prerequisite: CSCI-320, CSCI-330, CSCI-340, CSCI-480.

Credits, three hours.

## DEPARTMENT OF MATHEMATICAL SCIENCES

**Chairperson:** N. Edwards

**Professors:** F. Liu, D. Lott, M. Shahin, X. Shi

**Associate Professors:** N. Edwards, D.Y. Johnson, J. Liu, S. Makrogiannis

**Assistant Professors:** M. Tanzy, O. Yavuz

**Lecturer:** E. Carr, L. Girgis, S. Smith

The mission of the Department of Mathematical Sciences is 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: MTSC 191,192, 213, 251, 252, 253, 313, 317 or 319, 341, 351, 411, 451, 452, 461, 491, 498, and a minimum of six (6) hours selected from Mathematics courses numbered 300 or higher, excluding 402 and 403.

#### MATHEMATICS EDUCATION

The requirements for a teaching major in Mathematics are: MTSC 191,192, 203, 213, 241, 251, 252, 253, 313, 341, 402, 403, 411, 491, and a minimum of three (3) hours selected from Mathematics courses numbered 300 or higher. Students must take and pass the PRAXIS Core and apply for admission to the Teacher Education Program (TEP) prior to the start of their junior year. Students must pass the PRAXIS Subject prior to student teaching.

### CURRICULUM OPTION FOR MINORS

#### 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 402 and 403.

**MATHEMATICS**  
Effective Date: August 2014

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MTSC-191	University Seminar I (C)	1	MTSC-192	University Seminar II (C)	1
MTSC-251	Calculus I <sup>^</sup> (B/AtC)	4	MTSC-252	Calculus II <sup>^</sup> (AtC)	4
ENGL-101	English Composition I (C)	3	ENGL-102	English Composition II (C)	3
xx-xxx	Foreign Language I (B/AtC)	3	xx-xxx	Foreign Language II (B/AtC)	3
See Gen Ed Breadth Course List	History Elective (B/AtC)	3	CSCI-225 <sup>^^</sup> Or CSCI-120 <sup>^^</sup>	Structured Programming for Scientist & Engineers + (AtC), Or Elements of Computer Programming I + (AtC)	3 Or 4
MVSC-101	Fitness and Wellness (C)	2			
	<b>Total Credits</b>	<b>16</b>		<b>Total Credits</b>	<b>14/15</b>
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MTSC-253	Calculus III	4	MTSC-313	Linear Algebra	3
MTSC-213	Discrete Math (AtC)	3	MTSC-317 Or MTSC-319	Number Theory (S-E/AtC), Or Combinatorics (S-O/AtC)	3
PHYS-211 <sup>^^</sup> Or PHYS-201 <sup>^^</sup>	Fundamentals of Physics I + (B) Or General Physics I + (B)	4	PHYS-212 Or PHYS-202	Fundamentals of Physics II ++ Or General Physics II ++	4
ENGL-200	Speech (C)	3	See Gen Ed Breadth Course List	Literature Elective (B/AtC)	3
xx-xxx	Free Elective	3	xx-xxx	Free Elective	3
	<b>Total Credits</b>	<b>17</b>		<b>Total Credits</b>	<b>16</b>
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MTSC-341	Probability (F)	3	MTSC-491	History of Math (S/AtC)	3
MTSC-351	Differential Equations (F)	3	MTSC-461	Intro to Real Analysis (S)	3
GLOB-395	Global Societies (C)	3	PSYC-201	Intro General Psychology	3
xx-xxx	Free Elective	3	xx-xxx	Free Elective	3
xx-xxx	Free Elective	3	xx-xxx	Free 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	Cr	Course	Course Name	Cr
MTSC-451	Advanced Calculus I (F)	3	MTSC-452	Advanced Calculus II (S)	3
MTSC-411	Algebraic Structures I (F)	3	MTSC-498	Topics in Mathematics* (B)	3
MTSC-xxx	Mathematics Elective I **	3	MTSC-xxx	Mathematics Elective II **	3
xx-xxx	Free Elective	3	xx-xxx	Free Elective	3
xx-xxx	Free Elective	3			
	<b>Total Credits</b>	<b>15</b>		<b>Total Credits</b>	<b>12</b>

**Total Credits 120**

**Key Codes:**

<sup>^</sup> Students who do not satisfactorily complete MTSC-251 & MTSC-252 may be advised to consider changing to another major.

\* Senior Capstone Course

\*\* Mathematics Elective courses can be selected from MTSC-300 or higher level courses, except MTSC- 402 & 403. These courses include MTSC 317 (S/E) or 319 (S/O), 412 (S), 431 (F), 454 (S), 471 (S), or 499, and could occur in the Fall or Spring semester of the Senior year.

<sup>^^</sup> It is highly recommended that students either double major or minor in business, computer science or information technology (take CSCI 120), engineering or physics (take PHYS 201), or other science related field to become more employable in industry, education, or the federal government.

It is highly recommended that students take MTSC 203, MTSC 431 or MTSC 471 if they plan to attend graduate school with a BS in Mathematics. Students with advanced degrees (master's degree or doctorate) are more employable in industry, education, or the federal government.

+ This option is based on your chosen minor or double major. See advisor to select an option.

++ If you take PHYS 211, then you must take PHYS 212. If you take PHYS 201, then you must take PHYS 202. You are not permitted to interchange the course sequence.

- (C) Core Course
- (B) Breadth Course
- (AtC) Across the Curriculum
- (S) Spring Only Course
- (F) Fall Only Course
- (E) Even Years
- (O) Odd Years

**Major courses:**

Subject Code	Course Number	Course Name	Number of Credits
MTSC	191	University Seminar I	1
MTSC	192	University Seminar I	1
MTSC	213	Discrete Math	3
MTSC	251	Calculus I	4
MTSC	252	Calculus II	4
MTSC	253	Calculus III	4
MTSC	313	Linear Algebra	3
MTSC	317, or 319	Number Theory, or Combinatorics	3
MTSC	341	Probability	3
MTSC	351	Differential Equations	3
MTSC	411	Algebraic Structures I	3
MTSC	451	Advanced Calculus I	3
MTSC	452	Advanced Calculus II	3
MTSC	461	Introduction to Real Analysis	3
MTSC	491	History of Mathematics	3
MTSC	498	Topics in Mathematics	3
MTSC	xxx	Mathematics Elective I	3
MTSC	xxx	Mathematics Elective II	3

**Major Electives:** Mathematics Elective courses can be selected from MTSC-300 or higher level courses, except MTSC- 402 & 403. These courses include MTSC 317 (S/E) or 319 (S/O), 412 (S), 431 (F), 454 (S), 471 (S), or 499, and could occur in the Fall or Spring semester of the Senior year.

**Other required course for the major:**

Subject Code	Course Number	Course Name	Number of Credits
ENGL	101	English Composition I	3
ENGL	102	English Composition II	3
ENGL	200	Speech	3
GLOB	395	Global Societies	3
MVSC	101	Fitness and Wellness	3
PSYC	201	Introduction to General Psychology	3
PHYS	202, or 212	General Physics II, or Fundamental Physics II	4

**General Education Breadth courses:**

Breadth Area	Any Approved Course or list course/courses
Literature (three credits)	See General Education list of course options
History (three credits)	See General Education list of course options
Mathematics (three or four credits)	MTSC 251 Calculus I
Natural Science with Laboratory (three or four credits)	MTSC 201 General Physics I, or MTSC 211 Fundamentals of Physics I
Social Science (three credits)	PSYC 201 Intro to General Psychology
Arts/Humanities (two three-credit courses)	Foreign Language I, and Foreign Language II

**Across-the-Curriculum (A-t-C)**

<b>Program/Major</b>		Mathematics Education
<b>Concentration (if applicable)</b>		None
<b>Effective Date</b>		August 2014
<b>A-t-C Outcome</b>	<b>Course(s)</b>	<b>Course Name(s)</b>
Reading	MTSC 317, or 319	Number Theory, or Combinatorics

<b>Writing Intensive or Writing in Major (outside capstone)</b>	MTSC 491	History of Mathematics
<b>Speaking – Oral Communication – Presentation</b>	MTSC 317, or 319	Number Theory, or Combinatorics
<b>Speaking – Oral Communication – Discussion</b>	MTSC 317, or 319	Number Theory, or Combinatorics
<b>Listening</b>	MTSC 317, or 319	Number Theory, or Combinatorics
<b>Computer Competency</b>	CSCI 120, or CSCI 225	Elements of Computer Programming I, or Structured Programming for Scientist & Engineers
<b>Information Literacy</b>	MTSC 491	History of Mathematics
<b>Critical Thinking/Problem Solving</b>	MTSC 213	Discrete Math
<b>Quantitative Reasoning</b>	MTSC 251, or MTSC 252	Calculus I, or Calculus II
<b>Multicultural</b> 6 credits (choose two)	xxxx-xxx	Foreign Language I Foreign Language II
<b>African-American Experience</b>		See General Education list of course options
<b>Self-Evaluation</b>	PSYC 201	Introduction to General Psychology
<b>Wellness</b>	PSYC 201	Introduction to General Psychology
<b>Global Issues</b>	MTSC 491	History of Mathematics

## MATHEMATICS WITH DATA ANALYTICS CONCENTRATION

Effective Date: August 2017

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MTSC-191	University Seminar I (C)	1	MTSC-192	University Seminar II (C)	1
MTSC-251	Calculus I <sup>^</sup> (B/AtC)	4	MTSC-252	Calculus II <sup>^</sup> (AtC)	4
ENGL-101	English Composition I (C)	3	ENGL-102	English Composition II (C)	3
xx-xxx	Foreign Language I (B/AtC)	3	xx-xxx	Foreign Language II (B/AtC)	3
MTSC-241	Elementary Statistics	3	CSCI-225 <sup>^^</sup> Or CSCI-120 <sup>^^</sup>	Structured Programming for Scientist & Engineers + (AtC), Or Elements of Computer Programming I + (AtC)	3 Or 4
MGMT-100	Introduction to Business	3	ECON 201	Principles of Macroeconomics (AtC)	3
	<b>Total Credits</b>	<b>17</b>		<b>Total Credits</b>	<b>17/18</b>
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MTSC-253	Calculus III	4	MTSC-313	Linear Algebra	3
MTSC-213	Discrete Math (AtC)	3	MTSC-317 Or MTSC-319	Number Theory (S-E/AtC), Or Combinatorics (S-O/AtC)	3
PHYS-211 <sup>^^</sup> Or PHYS-201 <sup>^^</sup>	Fundamentals of Physics I + (B) Or General Physics I + (B)	4	xx-xxx	Free Elective (Recommend: PHYS 212 or PHYS 202)	3
ENGL-200	Speech (C)	3	ECON-303	Mathematical Economics	3
ECON 202	Microeconomics	3	ECON-308	Statistical Analytics II – Bus/Econ	3
	<b>Total Credits</b>	<b>17</b>		<b>Total Credits</b>	<b>15</b>
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MTSC-341	Probability (F)	3	MTSC-491	History of Math (S/AtC)	3
MTSC-351	Differential Equations (F)	3	MTSC-461	Intro to Real Analysis (S)	3
GLOB-395	Global Societies (C)	3	MVSC-101	Fitness and Wellness (C)	2
MGMT-3xx	Introduction to Analytics	3	MIS 470	Database Management System	3
MGMT-305	Management Information Systems	3	MTSC-340	Advanced Analytical Statistics	3
	<b>Total Credits</b>	<b>15</b>		<b>Total Credits</b>	<b>14</b>
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MTSC-451	Advanced Calculus I (F)	3	MTSC-452	Advanced Calculus II (S)	3
MTSC-411	Algebraic Structures I (F)	3	BANL-xxx	Data Analytics Capstone* (B)	3
BANL-xxx	Programming for Analytics	3	MTSC-xxx	Math Elective (Recommend MTSC 431)	3
See Gen Ed Breadth Course List	Literature Elective (B/AtC)	3	See Gen Ed Breadth Course List	History Elective (B/AtC)	3
PSYC 201	Introduction to Psychology	3			
	<b>Total Credits</b>	<b>15</b>		<b>Total Credits</b>	<b>12</b>

**Total Credits 120**

### Key Codes:

<sup>^</sup> Students who do not satisfactorily complete MTSC-251 & MTSC-252 may be advised to consider changing to another major.

\* Senior Capstone Course

\*\* Mathematics Elective courses can be selected from MTSC-300 or higher level courses, except MTSC- 402 & 403. These courses include MTSC 317 (S/E) or 319 (S/O), 412 (S), 431 (F), 454 (S), 471 (S), or 499, and could occur in the Fall or Spring semester of the Senior year.

^^ It is highly recommended that students either double major or minor in business, computer science or information technology (take CSCI 120), engineering or physics (take PHYS 201), or other science related field to become more employable in industry, education, or the federal government.

It is highly recommended that students take MTSC 203, MTSC 431 or MTSC 471 if they plan to attend graduate school with a BS in Mathematics. Students with advanced degrees (master's degree or doctorate) are more employable in industry, education, or the federal government.

+ This option is based on your chosen minor or double major. See advisor to select an option.

++ If you take PHYS 211, then you must take PHYS 212. If you take PHYS 201, then you must take PHYS 202. You are not permitted to interchange the course sequence.

(C) Core Course

(B) Breadth Course

(AtC) Across the Curriculum

(S) Spring Only Course

(F) Fall Only Course

(E) Even Years

(O) Odd Years

**Major courses:**

Subject Code	Course Number	Course Name	Number of Credits
MTSC	191	University Seminar I	1
MTSC	192	University Seminar I	1
MTSC	213	Discrete Math	3
MTSC	241	Elementary Statistics	3
MTSC	251	Calculus I	4
MTSC	252	Calculus II	4
MTSC	253	Calculus III	4
MTSC	313	Linear Algebra	3
MTSC	317, or 319	Number Theory, or Combinatorics	3
MTSC	340	Advanced Analytical Statistics	3
MTSC	341	Probability	3
MTSC	351	Differential Equations	3
MTSC	411	Algebraic Structures I	3
MTSC	451	Advanced Calculus I	3
MTSC	452	Advanced Calculus II	3
MTSC	461	Introduction to Real Analysis	3
MTSC	491	History of Mathematics	3
MTSC	498	Topics in Mathematics	3
MTSC	xxx	Mathematics Elective	3

**Major Electives:** Mathematics Elective courses can be selected from MTSC-300 or higher level courses, except MTSC- 402 & 403. These courses include MTSC 317 (S/E) or 319 (S/O), 412 (S), 431 (F), 454 (S), 471 (S), or 499, and could occur in the Fall or Spring semester of the Senior year.

**Other required course for the major:**

Subject Code	Course Number	Course Name	Number of Credits
CSCI	120, or 225	Structured Programming for Scientist & Engineers, or Elements of Computer Programming I	4/3
ENGL	101	English Composition I	3
ENGL	102	English Composition II	3
ENGL	200	Speech	3
GLOB	395	Global Societies	3
MVSC	101	Fitness and Wellness	3
PSYC	201	Introduction to General Psychology	3

**General Education Breadth courses:**

Breadth Area	Any Approved Course or list course/courses
Literature (three credits)	See General Education list of course options
History (three credits)	See General Education list of course options
Mathematics (three or four credits)	MTSC 251 Calculus I
Natural Science with Laboratory (three or four credits)	MTSC 201 General Physics I, or MTSC 211 Fundamentals of Physics I
Social Science (three credits)	ECO 201 Principles of Macroeconomics
Arts/Humanities (two three-credit courses)	Foreign Language I, and Foreign Language II

**Across-the-Curriculum (A-t-C)**

<b>Program/Major</b>		Mathematics Education
<b>Concentration (if applicable)</b>		None
<b>Effective Date</b>		August 2014
<b>A-t-C Outcome</b>	<b>Course(s)</b>	<b>Course Name(s)</b>
<b>Reading</b>	MTSC 317, or 319	Number Theory, or Combinatorics
<b>Writing Intensive or Writing in Major (outside capstone)</b>	MTSC 491	History of Mathematics
<b>Speaking – Oral Communication – Presentation</b>	MTSC 317, or 319	Number Theory, or Combinatorics
<b>Speaking – Oral Communication – Discussion</b>	MTSC 317, or 319	Number Theory, or Combinatorics
<b>Listening</b>	MTSC 317, or 319	Number Theory, or Combinatorics
<b>Computer Competency</b>	CSCI 120, or CSCI 225	Elements of Computer Programming I, or Structured Programming for Scientist & Engineers
<b>Information Literacy</b>	MTSC 491	History of Mathematics
<b>Critical Thinking/Problem Solving</b>	MTSC 213	Discrete Math
<b>Quantitative Reasoning</b>	MTSC 251, or MTSC 252	Calculus I, or Calculus II
<b>Multicultural</b> 6 credits (choose two)	xxxx-xxx	Foreign Language I Foreign Language II
<b>African-American Experience</b>		See General Education list of course options
<b>Self-Evaluation</b>	PSYC 201	Introduction to General Psychology
<b>Wellness</b>	PSYC 201	Introduction to General Psychology
<b>Global Issues</b>	MTSC 491	History of Mathematics

**MATHEMATICS EDUCATION**  
**Effective August 2017**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MTSC-191	University Seminar I (C)	1	MTSC-192	University Seminar II (C)	1
MTSC-251	Calculus I (B/AtC)	4	MTSC-252	Calculus II (AtC)	4
MVSC-101	Fitness and Wellness (C)	2	MTSC-241	Statistics	3
ENGL-101	English Composition I (C)	3	ENGL-102	English Composition II (C)	3
xx-xxx	Foreign Language I (B/AtC)	3	xx-xxx	Foreign Language II (B/AtC)	3
See Gen Ed Breadth List	History Elective (B/AtC)	3	PSYC-201	Intro General Psychology	3
	<b>Total Credits</b>	<b>16</b>		<b>Total Credits</b>	<b>17</b>
<b>Take and Pass Praxis Core++</b>					
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MTSC-253	Calculus III	4	MTSC-203	College Geometry (AtC)	3
MTSC-213	Discrete Math (AtC)	3	MTSC-313	Linear Algebra	3
PHYS-211## Or PHYS-201##	Fundamentals of Physics I + (B) Or General Physics I + (B)	4	PHYS-212 Or PHYS-202	Fundamentals of Physics II ++ Or General Physics II ++	4
EDUC-204	Philo Foundations of Ed (10 EFE hrs/Middle Level#)	3	EDUC-313	Intro to Educ. Of Except. Children (10 EFE hrs/Secondary#)	3
ENGL-200	Speech (C)	3	EDUC-344	Instructional Technology (10 EFE hrs/Secondary#) (AtC)	3
	<b>Total Credits</b>	<b>17</b>		<b>Total Credits</b>	<b>16</b>
<b>Apply to Teacher Education Program+</b>					
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MTSC-341	Probability (F)	3	MTSC-491	History of Math (S/AtC)	3
MTSC-411	Algebraic Structures I (F)	3	PSYC-316	Developmental Psychology	3
EDUC-318	Multicultural Education (cross listed with GLOB 395)	3	CSCI-225## Or CSCI-120##	Structured Programming for Scientist & Engineers + (AtC), Or Elements of Computer Programming I + (AtC)	3 Or 4
See Gen Ed Breadth List	Literature Elective (B/AtC)	3	MTSC-402	Secondary Mathematics Activities and Assessments	3
MTSC-xxx	Mathematics Elective I ^^	3	xx-xxx	Free Elective	3
	<b>Total Credits</b>	<b>15</b>		<b>Total Credits</b>	<b>15</b>
<b>Take and Pass Praxis Subject++</b>					
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MTSC-403	Methods of Teaching Mathematics (TEP/Secondary#) (F)*	3	EDUC-400	Pre-Service Teaching** (B/TEP/Secondary#)	12
EDUC-357	Effect. Teaching and Classroom Management (TEP/Secondary#)*	4			
EDUC-416	Analysis of Student Teaching (TEP)*	1			
MTSC-xxx	Mathematics Elective II ^^	3			
xx-xxx	Free Elective	3			
	<b>Total Credits</b>	<b>14</b>		<b>Total Credits</b>	<b>12</b>

**Total Credits 122**

**Key Codes:**

^ Students who do not satisfactorily complete MTSC-251 & MTSC-252 may be advised to consider changing to another major.

^^ Mathematics Elective courses can be selected from MTSC-300 or higher level courses. These courses include MTSC 317 (S/E), 319 (S/O), 412 (S), 431 (F), 451(S), 452 (F), 454 (S), 461 (F), 471 (S), 498, 499, and could occur in the Fall or Spring semester.

+ Students must pass PRAXIS Core, have at least 60 credits, and maintain a 2.5 GPA to be admitted into the Teacher Education Program (TEP).

++Students must submit a complete copy of their Praxis Core & Subject scores to the department secretary and advisor.

# Students must be placed in BOTH middle and secondary mathematics classrooms throughout the program. Recommendations for courses associated with middle schools and secondary schools are indicated.

## It is highly recommended that students either double major or minor in business, computer science or information technology (take CSCI 120), engineering or physics (take PHYS 201), or other science related field to become more employable in industry, education, or the federal government.

\* Course must be taken the semester before EDUC-400. Course shares 2 days per week Student Teaching Experience Part I.

\*\*Senior Capstone course. Student must pass PRAXIS Subject prior to EDUC-400

(C) Core Course

(B) Breadth Course

(AtC) Across the Curriculum Course

(TEP) Teacher Education Program Only

(S) Spring Only Course

(F) Fall Only Course

(E) Even Years

(O) Odd Years

#### **Certification Exam Information**

Praxis Core – Mathematics 5732 (min 150), or  
Math SAT (min 540) or Quantitative GRE (min 145)

Praxis Core – Reading 5712 (min 156), or  
Verbal SAT (min 560) or Verbal GRE (min 152)

Praxis Core – Writing 5722(min 162), or  
Core Battery Communication Skills Test (min 670)

Praxis Subject – Mathematics Content Knowledge 5161 (min 160; as of 9/1/13)

**Major courses:**

Subject Code	Course Number	Course Name	Number of Credits
MTSC	191	University Seminar I	1
MTSC	192	University Seminar I	1
MTSC	203	College Geometry	3
MTSC	213	Discrete Math	3
MTSC	241	Elementary Statistics	3
MTSC	251	Calculus I	4
MTSC	252	Calculus II	4
MTSC	253	Calculus III	4
MTSC	313	Linear Algebra	3
MTSC	341	Probability	3
MTSC	402	Secondary Mathematics Activities and Assessments	3
MTSC	403	Methods of Teaching Secondary Mathematics	3
MTSC	411	Algebraic Structures I	3
MTSC	491	History of Mathematics	3
MTSC	xxx	Mathematics Elective I	3
MTSC	xxx	Mathematics Elective II	3

**Major Electives:** Mathematics Elective courses can be selected from MTSC-300 or higher level courses. These courses include MTSC 317 (S/E), 319 (S/O), 412 (S), 431 (F), 451(S), 452 (F), 454 (S), 461 (F), 471 (S), 498, 499, and could occur in the Fall or Spring semester.

**Other required course for the major:**

Subject Code	Course Number	Course Name	Number of Credits
EDUC	204	Philosophical Foundation of Education	3
EDUC	313	Introduction to Exceptional Children	3
EDUC	318	Multicultural Education	3
EDUC	344	Instructional Technology	3
EDUC	357	Effective Teaching and Classroom Management	3
EDUC	416	Analysis of Student Teaching	1
EDUC	400	Pre-Service Teaching	12
ENGL	101	English Composition I	3
ENGL	102	English Composition II	3
ENGL	200	Speech	3
MVSC	101	Fitness and Wellness	3
PSYC	316	Developmental Psychology	3
PHYS	202, or 212	General Physics II, or Fundamental Physics II	4

**General Education Breadth courses:**

Breadth Area	Any Approved Course or list course/courses
Literature (three credits)	See General Education list of course options
History (three credits)	See General Education list of course options
Mathematics (three or four credits)	MTSC 251 Calculus I
Natural Science with Laboratory (three or four credits)	MTSC 201 General Physics I, or MTSC 211 Fundamentals of Physics I
Social Science (three credits)	PSYC 201 Intro to General Psychology
Arts/Humanities (two three-credit courses)	Foreign Language I Foreign Language II

**Across-the-Curriculum (A-t-C)**

<b>Program/Major</b>		Mathematics Education
<b>Concentration (if applicable)</b>		None
<b>Effective Date</b>		August 2017
<b>A-t-C Outcome</b>	<b>Course(s)</b>	<b>Course Name(s)</b>
<b>Reading</b>	MTSC 203	College Geometry
<b>Writing Intensive or Writing in Major (outside capstone)</b>	MTSC 491	History of Mathematics
<b>Speaking – Oral Communication – Presentation</b>	MTSC 203	College Geometry
<b>Speaking – Oral Communication – Discussion</b>	MTSC 203	College Geometry
<b>Listening</b>	MTSC 203	College Geometry
<b>Computer Competency</b>	CSCI 120, or CSCI 225	Elements of Computer Programming I, or Structured Programming for Scientist & Engineers
<b>Information Literacy</b>	MTSC 491	History of Mathematics
<b>Critical Thinking/Problem Solving</b>	MTSC 213	Discrete Math
<b>Quantitative Reasoning</b>	MTSC 251, or MTSC 252	Calculus I, or Calculus II
<b>Multicultural</b> 6 credits (choose two)	xxxx-xxx	Foreign Language I Foreign Language II
<b>African-American Experience</b>		See General Education list of course options
<b>Self-Evaluation</b>	PSYC 201	Introduction to General Psychology
<b>Wellness</b>	PSYC 201	Introduction to General Psychology
<b>Global Issues</b>	MTSC 491	History of Mathematics

## **MATHEMATICAL SCIENCES (MTSC)**

### **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, Math and Data Analysis, or Mathematics for Teachers I. Topics include properties of real numbers, linear equations and inequalities, polynomials and factoring, and rational and radical expressions. This course does not carry credits toward graduation. Students are eligible to enroll in MTSC 105, 107, 110, or 121 upon successful completion of the course. Credit, three hours not counted toward graduation.

### **MTSC 107 – MATHEMATICS AND DATA ANALYSIS. 3:3:0**

Mathematics and Data Analysis (MTSC 107) is a course designed to acquaint students with logic, sets and applications, problem-solving, number sense and percents, consumer mathematics, and an introduction to statistics.

Prerequisites: Exemption from the mathematics placement test, passing score on the mathematics placement test, or successful completion of MTSC 075.

### **MTSC 108 – MATHEMATICS AND THE ENVIRONMENT. 3:3:0**

Mathematics and the Environment (MTSC 108) is a course designed to acquaint students with functional relationships, linear & exponential mathematical modeling, geometric modeling and data analysis. Prerequisite: MTSC 107.

### **MTSC 110 - ALGEBRA A. 2:3:0**

The first course in a two-course sequence. Topics include polynomial functions, real and complex roots, absolute value equations, linear and polynomial inequalities, graphing, modeling, and applications. Three (3) contact hours. Students must take MTSC 110 and MTSC 111 to receive credit equivalent to MTSC 121.

Prerequisite: Exemption from the mathematics placement test, passing score on the mathematics placement test, or successful completion of MTSC 075.

Credit, two hours.

### **MTSC 111 - ALGEBRA B. 2:3:0**

The second course in a two-course sequence. Students who enter MTSC 111 must have completed MTSC 110. Topics include polynomial functions, real and complex roots, rational equations, radical equations, exponential and logarithmic functions, graphing, modeling, and applications. Three (3) contact hours.

Prerequisites: MTSC 110 with a "C" or better.

Credit, two hours.

### **MTSC 121 - COLLEGE ALGEBRA. 3:4:0**

A course designed to expose students to polynomial functions, real and complex roots, rational equations, radical equations, absolute value equations, linear and polynomial inequalities, exponential and logarithmic functions, graphing, modeling, and applications. Four (4) contact hours. Credit will not be given for MTSC 121, and the following courses: MTSC 110, and MTSC 111.

Prerequisites: Exemption from the mathematics placement test, passing score on the mathematics placement test, or successful completion of MTSC 075.

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.

Prerequisites: Exemption from the mathematics placement test, passing score on the mathematics placement test, MTSC 111 or MTSC 121 with a "C" or better.

Credit, three hours.

**MTSC 125 - FINITE MATHEMATICS.****3:3:0**

This course is designed to prepare students for business calculus and quantitative business data analysis. Topics include exponential and logarithmic functions, consumer mathematics, series, systems of equations and inequalities, linear programming, matrix algebra, counting principles, and probability. Prerequisites: Exemption from the mathematics placement test, passing score on the mathematics placement test, MTSC 111 or MTSC 121 with a "C" or better.

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, and applications of trigonometry. Prerequisites: Exemption from the mathematics placement test, passing score on the mathematics placement test, and a strong high school preparation in mathematics as the course covers content from MTSC 121 and MTSC 122 in one semester.

Credit, four hours.

**MTSC 191 - UNIVERSITY SEMINAR I – MATHEMATICS.****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 - MATHEMATICS.****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 201 (formerly 105) – MATHEMATICS FOR TEACHERS I.****3:3:0**

The first course in a three course sequence designed to introduce problem-solving skills and heuristic instruction to prospective PK-8, vocational, and special education teachers. Topics include the structure of the real numbers system and its subsystems, number theory, mathematical operations over integer, and algorithms.

Prerequisites: Exemption from the mathematics placement test, passing score on the mathematics placement test, or successful completion of MTSC 075.

Credit, three hours.

**MTSC 202 (formerly 106) – MATHEMATICS FOR TEACHERS II.** **3:3:0**  
The second course in a three course sequence designed to introduce problem-solving skills and heuristic instruction to prospective PK-8, vocational, and special education teachers. Topics include rational numbers, real numbers, percents, interest, proportional reasoning, and probability.  
Prerequisites: MTSC 105 with a "C" or better.  
Credit, three hours.

**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 or MTSC 131 with a "C" or better.  
Credit, three hours.

**MTSC 205 – MATHEMATICS FOR TEACHERS III.** **3:3:0**  
The third course in a three course sequence designed to introduce problem-solving skills and heuristic instruction to prospective PK-8, vocational, and special education teachers. Topics include exploring mathematical definitions and figures, coordinate geometry, measurement, and algebra.  
Prerequisites: MTSC 106 with a "C" or better.  
Credit, three hours.

**MTSC-211H. GAME THEORY AND STRATEGY HONORS I.** **3:3:0**  
An interdisciplinary, mathematics-based course designed to analyze situations of conflict and cooperation that arise in game theory. Game situations 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 101, 111 or 121 with a grade of 'B' or better, Sophomore - Senior Status, Cumulative GPA of 3.25 or better.  
Credit: three (3) hours.

**MTSC 213 – DISCRETE MATHEMATICS.** **3:3:0**  
This course is designed to expose students to mathematical logic, proof and the language of sets, relations and functions.  
Prerequisites: MTSC 251 with a "C" or better, or consent of the instructor.  
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 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, 131 or MTSC 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: Exemption from the mathematics placement test due to Advanced Placement Score (AP), passing score on the mathematics placement test, or MTSC 122 or MTSC 131 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: Exemption from the mathematics placement test due to Advanced Placement Score (AP), or 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 261 - CALCULUS FOR LIFE SCIENCES.****4:4:0**

This one semester biomathematics course will cover topics in the natural sciences that require the knowledge of functions, graphing functions, an introduction to limits, continuous functions, rate of change, derivatives, implicit differentiation, maximum and minimum points and their applications, exponential and logarithmic functions and development and applications and application of the definite integral, trigonometric and hyperbolic functions, and techniques of integration. The course will include an Extended Life Science Connection and use of the computer packet, maple, to perform symbolic, numerical, and graphical analysis. Prerequisites: MTSC 122 or MTSC 131 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 317 - NUMBER THEORY.****3:3:0**

This course is designed to expose students to the principles of elementary number theory. Topics will include divisibility, prime numbers, congruence and Diophantine equations. Additional topics may include partition theory, cryptography or continued fractions. Prerequisites: MTSC-252 Calculus II and MTSC-213 Discrete Mathematics with a grade of 'C' or better, or consent from instructor.

**MTSC 319 – COMBINATORICS.****3:3:0**

This course is designed to expose students to the principles of mathematical counting. Topics will include elementary counting techniques, the principle of inclusion/exclusion, combinatorial arguments including bijective proofs, induction and the pigeonhole principle, recurrence relations and generating functions. Additional topics may include graph theory, design theory, complexity or Polyaenumeration. Prerequisites: MTSC 252 with a "C" or better, or consent of the instructor. 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 402 – SECONDARY MATHEMATICS ACTIVITIES AND ASSESSMENTS.****3:3:0**

A study of the activities and assessments used in teaching mathematics at the secondary level. Students explore, evaluate, and design activities in the content areas of number and quantity, algebra, functions, modeling, geometry, statistics, and probability. Content aligned with national and state standards with emphasis on equity and technology.

Prerequisites: Admission into the Teacher Education Program (TEP), MTSC 252, MTSC 241 and MTSC 203 with a "C" or better, and consent of the instructor.

Credit, three hours.

**MTSC 403 – METHODS OF TEACHING SECONDARY MATHEMATICS.****3:3:0**

A study of the methods and materials used in teaching high school mathematics. The course introduces current educational theory and research methodologies. Topics include national & state standards, effective teaching strategies, lesson plans, technology in the classroom, diversity & equity, assessment, classroom management, professionalism, and current issues and trends. Includes two-day shared FE hours per week. This course should be taken the semester before EDUC 400 Pre-Service/ Student Teaching.

Prerequisites: Admission into the Teacher Education Program (TEP), MTSC 402 with a "C" or better, and consent from the instructor.

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 213 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  $R(\exp n)$  into  $R(\exp m)$ , 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.

Prerequisite: MTSC 351 with a "C" or better.

Credit, three hours.

**MTSC 461 – INTRODUCTION TO REAL ANALYSIS.****3:3:0 (updates completed 12/7/2012)**

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 253 and MTSC 213 with a "C" or better.

Credit, three hours.

**MTSC 471 – COMPLEX VARIABLES.****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, Morera's theorem, Maximum Modulus Principle, Taylor and Laurent series, residues and poles, and linear fractional transformations. Prerequisites: MTSC 253 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 252 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 ENGINEERING

**Professors:** Zerrad, Gwanmesia, Pati, Tripathi, Boukari

**Associate Professors:** Lu, Planchon, Rana (Chairperson), Santamore, Khan

**Assistant Professors:** Ren

**Research Professor:** Marcano

**Research Assistant Professor:** Markushin

**Director of Imaging Facility:** Boukari (Interim)

**Department Assistant:** Juracka

**Administrative Assistant:** Shields

### 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 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-one (51) hours of Physics including the following Physics 191-192, 200, 201-202, 220, 305, 313-314, 341-342, 316, 331, 361-362, 418, 451; Engineering: 205, 302, 340; Mathematics 251, 252, 253, 313, 351; Chemistry 101; and fifteen to twenty (15-20) credits of technical electives.

**ENGINEERING PHYSICS:** The Engineering Physics curriculum is based on core physics engineering courses plus engineering electives within three (3) concentrations: **Bioengineering, Electrical Engineering, and Optical Engineering.**

All concentrations: Students must take Physics 191-192, 200, 201-202, 220, 305, 313-314, 341-342, 361-362, 418 and 451, Engineering 205, 210, 302, 340 and 342; Mathematics 251, 252, 253, 313, 351; Chemistry 101, across the curriculum courses and 9-12 credits or three courses of technical electives specific to each concentration.

Concentration specific: **Bio Engineering concentration:** ENGR 318, BIOL 101; **Electrical Engineering concentration:** ENGR 340, 309; **Optical Engineering concentration:** ENGR 309, PHYS 316

**PHYSICS MINOR:** Students interested in a minor in physics must complete Physics 201 and 202, and twelve (12) additional credit hours of physics courses 300 level or above.

**ENGINEERING PHYSICS MINOR:** A student interested in a minor in Engineering physics must complete Physics 201 and 202, and twelve (12) additional credit hours of physics and/or engineering courses 300 level or above with at least 9 credit hours it should be from engineering area.

## 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
PHYS-200	Analysis of Physical Systems	3	PHYS-220	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
			MVSC-101	Lifetime Fitness & Wellness	2
	Total Credits	<b>15</b>		Total Credits	<b>17</b>
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PHYS-313	Mechanics I: Statics	3	PHYS-314	Mechanics II: Dynamics	3
CHEM-101	Gen. & Elem. Chemistry I	4	ENGR-205	Electrical Circuit Analysis	4
ENGR-302	Signals and Systems	4	MTSC-351	Differential Equations	3
MTSC-313	Linear Algebra	3	MTSC-253	Calculus III	4
ENGL-xxx	World Literature Elective	3	ENGL-200	Speech	3
	Total Credits	<b>17</b>		Total Credits	<b>17</b>
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PHYS-341	Electricity and Magnetism I	3	PHYS-342	Electricity and Magnetism II	3
PHYS-361	Modern Physics	4	PHYS-362	Quantum Mechanics	3
PHYS-316	Introduction to Optics	4	xx-xxx	Technical Elective	3
PHYS-331	Math Methods of Physics I	3	xx-xxx	Social Science Elective	3
	Total Credits	<b>14</b>		Total Credits	<b>12</b>
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PHYS-305	Thermal Physics	3	ENGR-342	Material Science for Engineers	4
PHYS-451	Introduction to Research*	3	xx-xxx	Technical Elective	3
xxxx-xxx	Technical Elective	3	PHYS-418	Theor and Exp Research **	3
GLOB-395	Global Societies	3	xx-xxx	Arts and Humanities Elec.	3
xx-xxx	Arts and Humanities Elective	3	HIST-xxx	World History Elective	3
	Total Credits	<b>15</b>		Total Credits	<b>16</b>

<b>Total Credits:</b>	<b>123</b>
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\*\* 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.*

**Major courses:**

Subject Code	Course Number	Course Name	Number of Credits
PHYS	191	University Seminar I	1
PHYS	192	University Seminar II	1
PHYS	200	Analysis of Physical Systems	3
PHYS	201	General Physics I	4
PHYS	202	General Physics II	4
PHYS	220	Scientific Programming	3
PHYS	313	Mechanics I-Statics	3
PHYS	314	Mechanics II-Dynamics	3
ENGR	205	Electrical Circuit Analysis	4
ENGR	302	Signals and Systems	4
PHYS	361	Modern Physics	4
PHYS	362	Quantum Mechanics	3
PHYS	341	Electricity & Magnetism I	3
PHYS	342	Electricity & Magnetism II	3
PHYS	316	Intro to Optics	4
PHYS	305	Thermal Physics	3
PHYS	331	Math Methods I	3
PHYS	451	Intro to Research	3
ENGR	342	Material Science for Engineers	3
PHYS	418	Theoretical and Exp Research	4

**Major Electives:**

Course#	Course Name	Credits
PHYS-306	Computational Methods of Physics	3
PHYS-319	Quantitative Optical Methods and Microscopy	4
PHYS-411	Fiber Optics Communication	4
PHYS-413	Introduction to Laser Physics	3
PHYS-414	Physics of Colloids and Surfaces	3
PHYS-423	Introduction to Nonlinear Optics	3
CHEM-303	Physical Chemistry I	4
ENGR-xxx	Any ENGR technical elective from ENG. concentrations	3-4

**Other required courses for the major:**

Subject Code	Course Number	Course Name	Number of Credits
MTSC	251	Calculus I	4
MTSC	252	Calculus II	4
MTSC	253	Calculus III	4
MTSC	313	Linear Algebra	3
MTSC	351	Differential Equations	4
CHEM	101	General and Analytical Chemistry	4

**General Education Breadth courses:**

<b>Breadth Area</b>	<b>Any Approved Course or list course/courses</b>
Literature (three credits)	Any Approved Course
History (three credits)	Any Approved Course
Mathematics (three or four credits)	MTSC 251, MTSC 252, MTSC253, MTSC313, MTSC 351
Natural Science with Laboratory (three or four credits)	CHEM 101
Social Science (three credits)	Any Approved Course
Arts/Humanities (two three-credit courses)	Any Approved Course

**Across-the-Curriculum (A-t-C)**

<b>Program/Major</b>	Physics
<b>Concentration (if applicable)</b>	None
<b>Effective Date</b>	
<b>A-t-C Outcome</b>	Courses
<b>Reading/Speaking/Listening</b>	World Literature Elective, Social Science Elective, Arts & Humanities Electives, 26-201&202, 26-418 & 26-451
<b>Self-Evaluation</b>	26-191&192, 26-201&202, seminar speakers sponsored by the Physics Department, CREOSA, and/or CMNST, Activities of the Physics/Engineering Club, faculty and peer mentoring, and 26-418
<b>Wellness</b>	26-191&192, activities of the Physics/Engineering Club, faculty and peer mentoring, departmental social events
<b>Information Literacy</b>	26-201&202, 26-361, 26-418 & 26-451
<b>Computer Competency</b>	26-191&192, 26-201&202, 26-220, 26-261, 26-418 & 26-451
<b>Writing in Major - Outside the Capstone</b>	26-191&192, 26-201&202, 26-261, 26-316 & 26-451
<b>Quantitative Reasoning</b>	26-201&202, 25-251, 252, & 253, 26-313 & 314, and 26-331& 332
<b>Global Issues</b>	26-418 and 26-451
<b>Critical Thinking/Problem Solving</b>	Analytical - 26-201&202, 25-251,252,&253, 26-305, 26-313 & 314, 26-316, and 26-411&412 Empirical – 26-201&202, 26-261, 26-316, 26-418 and 26-451

**ENGINEERING PHYSICS**  
**(Bioengineering Concentration)**

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
PHYS-200	Analysis of Physical Systems	3	PHYS-220	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
			MVSC-101	Lifetime Fitness and Wellness	2
	Total Credits	15		Total Credits	17
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PHYS-313	Mechanics I: Statics	3	PHYS-314	Mechanics II: Dynamics	3
CHEM-101	Gen. & Elem. Chemistry I	4	ENGR-205	Electrical Circuit Analysis	4
ENGR-210	Digital Logic Design	4	MTSC-351	Differential Equations	3
MTSC-313	Linear Algebra	3	MTSC-253	Calculus III	4
ENGL-xxx	World Literature 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
ENGR-302	Signals and Systems	4	ENGR-318	Foundations of Bioengineering	3
PHYS-361	Modern Physics	4	PHYS-362	Quantum Mechanics	3
PHYS-341	Electricity and Magnetism I	3	PHYS-342	Electricity and Magnetism II	3
xxxx-xxx	Technical Elective	3	xxxx-xxx	Technical Elective	3
			xx-xxx	Social Science Elective	3
	Total Credits	14		Total Credits	15
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PHYS-305	Thermal Physics	3	ENGR-342	Material Science for Engineers	4
PHYS-451	Introduction to Research*	3	PHYS-418	Theoretical & Exp Research**	3
xxxx-xxx	Technical Elective	3	HIST-xxx	World History Elective	3
GLOB-395	Global Societies	3	xx-xxx	Arts and Humanities Elective	3
xx-xxx	Arts and Humanities Elective	3			
	Total Credits	15		Total Credits	13
				<b>Total Credits:</b>	<b>123</b>

\*\* 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.*

**ENGINEERING PHYSICS**  
**(Electrical Engineering Concentration)**

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
PHYS 200	Ana. and Quant. Analysis	3	ENGL 102	English Composition II	3
ENGL 101	English Composition I	3	PHYS 191	University Seminar II	1
PHYS-191	University Seminar I	1	PHYS 220	Scientific Programming	3
			MVSC-100	Lifetime Fit. and Wellness	2
	Total Credits	<b>15</b>		Total Credits	<b>17</b>
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PHYS 313	Mechanics I: Statics	3	PHYS 314	Mechanics II: Dynamics	3
CHEM 101	Gen. & Elem. Chemistry I	4	ENGR 205	Electrical Circuit Analysis	4
ENGR 210	Digital Logic Design	4	MTSC 351	Differential Equation	3
MTSC 313	Linear Algebra	3	MTSC-253	Calculus III	4
ENGL-xxx	World Literature Elective	3	ENGL 200	Speech	3
	Total Credits	<b>17</b>		Total Credits	<b>17</b>
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PHYS 341	Electricity and Magnetism I	3	PHYS 342	Electricity & Magnetism II	3
ENGR 340	Solid State Electronics	3	ENGR 309	Electronic Circuit Analysis	4
ENGR 302	Signals and Systems	4	xxxx xxx	Technical Elective I	3
PHYS 361	Modern Physics	4	xxxx-xxx	Social Science Elective	3
	Total Credits	<b>14</b>		Total Credits	<b>13</b>
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PHYS 305	Thermal Physics	3	ENGR 342	Material Science for Engr.	4
PHYS 451	Introduction to Research*	3	PHYS 418	Senior Research Project **	3
xxxx xxx	Technical Elective II	3	xxxx xxx	Technical Elective III	3
GLOB 395	Global Societies	3	xxxx xxx	World History Elective	3
xxxx xxx	Arts and Humanities Elective	3	xxxx xxx	Arts and Humanities Elective	3
	Total Credits	<b>15</b>		Total Credits	<b>16</b>

<b>Total Credits:</b>	<b>124</b>
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\*\* 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.

**ENGINEERING PHYSICS**  
**(Optical Engineering Concentration)**

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
PHYS-200	Analysis of Physical Systems	3	PHYS-220	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
			MVSC-101	Lifetime Fitness and Wellness	2
	Total Credits	<b>15</b>		Total Credits	<b>17</b>
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PHYS-313	Mechanics I: Statics	3	PHYS-314	Mechanics II: Dynamics	3
CHEM-101	Gen. & Elem. Chemistry I	4	ENGR-205	Electrical Circuit Analysis	4
ENGR-210	Digital Logic Design	4	MTSC-351	Differential Equations	3
MTSC-313	Linear Algebra	3	MTSC-253	Calculus III	4
ENGL-xxx	World Literature Elective	3	ENGL-200	Speech	3
	Total Credits	<b>17</b>		Total Credits	<b>17</b>
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PHYS-361	Modern Physics	4	PHYS 342	Electricity and Magnetism II	3
PHYS 341	Electricity & Magnetism I	3	PHYS 362	Quantum Mechanics	3
ENGR-302	Signals and Systems	4	xxxx-xxx	Technical Elective 1	3
PHYS-316	Introduction to Optics	4	xx-xxx	Social Science Elective	3
	Total Credits	<b>15</b>		Total Credits	<b>12</b>
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PHYS-305	Thermal Physics	3	PHYS-418	Theoretical & Exp Research **	3
PHYS-451	Introduction to Research*	3	ENGR-342	Material Science for Engineers	4
xxxx-xxx	Technical Elective II	3	xxxx-xxx	Technical Elective III	3
GLOB-395	Global Societies	3	xx-xxx	Arts and Humanities Elective	3
xx-xxx	Arts and Humanities Elective	3	HIST-xxx	World History Elective	3
	Total Credits	<b>15</b>		Total Credits	<b>16</b>

<b>Total Credits:</b>	<b>124</b>
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\*\* 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.*

### Technical Elective Selection

For Physics program the student and the advisor will choose a minimum of 12 credits hours among elective courses. For Engineering Physics program, the student and the advisor will choose a minimum of 9 credits from technical electives under the chosen concentration.

### Bioengineering Concentration

Course	Name	Credits
PHYS-319	Quantitative Optical Methods and Microscopy	3
PHYS-414	Physics of Colloids and Surfaces	3
ENGR-409	Biosensors and Bioinstrumentation	3
ENGR-410	Molecular Engineering Systems	4
CIS-303	Topics in Bioinformatics	3
BIOL-101	General Biology I	4
BIOL-307	Principles of Physiology	4
BIOL-310	Molecular Biology	4

### Electrical Engineering Concentration

Course	Name	Credits
PHYS-316	Introduction to Physical Optics	4
PHYS-411	Fiber Optics Communication	4
ENGR-412	Digital Signal Processing	3
ENGR-446	Optical Electronics	3
ENGR-403	Introduction to MEMS	3
ENGR-415	Infrared Detection and Radiation	3
ENGR-444	Introduction to VLSI Design	4
ENGR-460	Power System Analysis	3

### Optical Engineering Concentration

Course	Name	Credits
PHYS-306	Computational Methods of Physics	3
PHYS-319	Quantitative Optical Methods and Microscopy	4
PHYS-411	Fiber Optics Communication	4
PHYS-413	Introduction to Laser Physics	3
PHYS-423	Introduction to Nonlinear Optics	3
ENGR-446	Optical Electronics	3

### Physics

Course	Name	Credits
PHYS-306	Computational Methods of Physics	3
PHYS-319	Quantitative Optical Methods and Microscopy	4
PHYS-411	Fiber Optics Communication	4
PHYS-413	Introduction to Laser Physics	3
PHYS-414	Physics of Colloids and Surfaces	3
PHYS-423	Introduction to Nonlinear Optics	3
CHEM-303	Physical Chemistry I	4
ENGR-xxx	Any ENGR technical elective	3-4

**Major courses:**

Subject Code	Course Number	Course Name	Number of Credits
PHYS	191	University Seminar I	1
PHYS	192	University Seminar II	1
PHYS	200	Analysis of Physical Systems	3
PHYS	201	General Physics I	4
PHYS	202	General Physics II	4
PHYS	220	Scientific Programming	3
PHYS	313	Mechanics I-Statics	3
PHYS	314	Mechanics II-Dynamics	3
ENGR	210	Digital Logic Design	4
ENGR	205	Electrical Circuit Analysis	4
ENGR	302	Signals and Systems	4
PHYS	361	Modern Physics	3
PHYS	341	Electricity & Magnetism I	3
PHYS	342	Electricity & Magnetism II	3
ENGR	309	Electronic Circuit Analysis	4
PHYS	305	Thermal Physics	3
PHYS	451	Intro to Research	3
ENGR	342	Material Science for Engineers	3
PHYS	418	Theoretical and Exp Research	4

**Major Electives:** Three courses other than those listed above from the list below.

**Bioengineering Concentration**

Course	Name	Credits
PHYS-319	Quantitative Optical Methods and Microscopy	3
PHYS-414	Physics of Colloids and Surfaces	3
ENGR-409	Biosensors and Bioinstrumentation	3
ENGR-410	Molecular Engineering Systems	4
CIS-303	Topics in Bioinformatics	3
BIOL-101	General Biology I	4
BIOL-307	Principles of Physiology	4
BIOL-310	Molecular Biology	4

**Electrical Engineering Concentration**

Course	Name	Credits
PHYS-316	Introduction to Physical Optics	4
PHYS-411	Fiber Optics Communication	4
ENGR-412	Digital Signal Processing	3
ENGR-446	Optical Electronics	3
ENGR-403	Introduction to MEMS	3
ENGR-415	Infrared Detection and Radiation	3
ENGR-444	Introduction to VLSI Design	4
ENGR-460	Power System Analysis	3

**Optical Engineering Concentration**

Course	Name	Credits
PHYS-306	Computational Methods of Physics	3
PHYS-319	Quantitative Optical Methods and Microscopy	4
PHYS-411	Fiber Optics Communication	4
PHYS-413	Introduction to Laser Physics	3
PHYS-423	Introduction to Nonlinear Optics	3
ENGR-446	Optical Electronics	3

**Other required courses for the major:**

Subject Code	Course Number	Course Name	Number of Credits
MTSC	251	Calculus I	4
MTSC	252	Calculus II	4
MTSC	253	Calculus III	4
MTSC	313	Linear Algebra	3
MTSC	351	Differential Equations	4
CHEM	101	General and Analytical Chemistry	4

**Concentration Name: Electrical Engineering**

Subject Code	Course Number	Course Name	Number of Credits
ENGR	340	Solid States Electronics	3

**Concentration Name: Bioengineering**

Subject Code	Course Number	Course Name	Number of Credits
ENGR	318	Foundations of Bioengineering	3
PHYS	362	Quantum Mechanics	3

**Concentration Name: Optical Engineering**

Subject Code	Course Number	Course Name	Number of Credits
PHYS	316	Intro to Optics	4
PHYS	362	Quantum Mechanics	3

**General Education Breadth courses:**

Breadth Area	Any Approved Course or list course/courses
Literature (three credits)	Any Approved Course
History (three credits)	Any Approved Course
Mathematics (three or four credits)	MTSC 251, MTSC 252, MTSC253, MTSC313, MTSC 351
Natural Science with Laboratory (three or four credits)	CHEM 101
Social Science (three credits)	Any Approved Course
Arts/Humanities (two three-credit courses)	Any Approved Course

**Across-the-Curriculum (A-t-C)**

<b>Program/Major</b>	Engineering Physics
<b>Concentration (if applicable)</b>	All concentrations
<b>Effective Date</b>	
<b>A-t-C Outcome</b>	Courses
<b>Reading/Speaking/Listening</b>	World Literature Elective, Social Science Elective, Arts & Humanities Electives, PHYS 201, 202, 418 & 451
<b>Self-Evaluation</b>	PHYS 201& 202, seminar speakers sponsored by the Physics Department, OSCAR, and/or CMNST, Activities of the Physics Clinic and Optical Society of America Student Branch, faculty and peer mentoring, and PHYS 418
<b>Wellness</b>	Activities of the Physics Clinic and Optical Society of America Student Branch, faculty and peer mentoring, Departmental social events
<b>Information Literacy</b>	PHYS 200, 201, 202, 220, ENGR 302
<b>Computer Competency</b>	PHYS 200, 201, 202, 220, ENGR 302
<b>Writing in Major - Outside the Capstone</b>	PHYS 201, 202, 316, 451, 313, 314, ENGR 205.
<b>Quantitative Reasoning</b>	PHYS 200, 201, 202, 220, ENGR 302 and MTSC 251, 252, & 253
<b>Global Issues</b>	PHYS 418 and 451
<b>Critical Thinking/Problem Solving</b>	Analytical – PHYS 200, 201&202, 220, 313, 314, 341, 342, MTSC 251,252, &253 Empirical – PHYS 201&202, 313, 314.

## **PHYSICS (PHYS)**

### **PHYS-111. INTRODUCTION TO PHYSICS I**

**4:3:2**

This is the first course in a two-semester sequence of introductory physics for non-physics majors. Topics include motion, force, energy, fluid mechanics, thermal physics and sound. Problem solving with algebra and trigonometry is essential to this course. Three lectures and one two-hour laboratory period per week.

Prerequisites: MTSC-121, MTSC-122 or consent of the Department.

Credit, four hours.

### **PHYS-112. INTRODUCTION TO PHYSICS II**

**4:3:2**

This is the second course in a two-semester sequence of introductory physics for non-physics majors. Topics include optics, electricity, magnetism and elementary atomic physics. Problem solving with algebra and trigonometry is essential to this course. Three lectures and one two-hour laboratory period per week.

Prerequisites: PHYS 111.

Credit, four hours.

### **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 lectures and one 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 lectures and one 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 lectures and one 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 lectures and one 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 lectures and one two-hour laboratory period per week. Credit, three hours.

### **PHYS-141H. THE SCIENCE OF SOUND -HONORS**

**3:2:2**

This is an honors course for non-science major students. It covers the underlying physical principles of sound, starting with the physics of vibrating bodies and wave phenomena. It further treats the analysis of sound waves in relation to the pitch, tone and temperament of musical sound. The mechanism of human hearing and the technological development of acoustics are also discussed in this course. There are no mathematics or science prerequisites. Two lectures and one two-hour laboratory per week. Credit, three hours.

**PHYS-191. UNIVERSITY SEMINAR I PHYSICS AND 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 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.

Prerequisite: PHYS-191.

Credit, one hour.

**PHYS-200. ANALYSIS OF PHYSICAL SYSTEMS****3:3:0**

An elementary course covering physical dimensions and fundamental units, vectors and scalars, rates, vibrations, and waves. Emphasis will be on the application of concepts to the physical sciences and engineering. Three lectures per week.

Credit, three hours.

**PHYS-201. GENERAL PHYSICS I****4:3:2**

This is the first part of a calculus-based introductory course in physics for physics and engineering physics majors. Topics include kinematics, Newtonian mechanics, momentum, work and energy, and rotational dynamics. Three lectures and one two-hour laboratory period per week.

Co-requisites: MTSC 251 and PHYS 200.

Credit, four hours.

**PHYS-202. GENERAL PHYSICS II****4:3:2**

This is the second part of a calculus-based introductory course in physics for physics and engineering physics majors. Topics include oscillation, sound and waves, geometric and wave optics, electricity and magnetism. Three lectures and one two-hour laboratory period per week.

Prerequisite: PHYS 201

Co-requisites: MTSC 252 and PHYS 200.

Credit, four hours.

**PHYS-211. FUNDAMENTALS OF PHYSICS I****4:3:2**

This is the first part of a calculus-based general course in physics intended to meet the needs of students enrolled in all science majors except physics and engineering majors. The course is a survey that will address the fundamental concepts of Newton mechanics, including translational and rotational motions. The following Strands and Goals of the General Education Program will be addressed in this course: Reading, Writing, Speaking, and Listening Across the Curriculum; Critical Thinking/Problem Solving; Computer and Information Technology; Moral/Ethical Issues.

Prerequisites: none.

Credit: four hours; Offered in Fall.

**PHYS-212. FUNDAMENTALS OF PHYSICS II****4:3:2**

This is the second part of a calculus-based general course in physics intended to meet the needs of students enrolled in all science majors except physics and engineering majors. The course is a survey that will address the fundamental concepts of 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 in this course: Reading, Writing, Speaking, and Listening Across the Curriculum; Critical Thinking/Problem Solving; Computer and Information Technology; Moral/Ethical Issues.

Prerequisites: PHYS211.

Credit: four hours; Offered in Spring.

**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++, LabVIEW and MATLAB. Prerequisite: MTSC 251, 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 lectures and one two-hour laboratory period per week.

Prerequisites: Completion of the mathematics requirements under general education.

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 lectures per week.

Prerequisites: MTSC 252 and 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. Credit, three credits. One class period and two computer laboratory periods.

Prerequisites: PHYS 202, PHYS 220.

Credit, three hours.

**PHYS-313. MECHANICS I: STATICS****3:3:0**

Classification of force systems and their resultants; geometrical and analytical conditions for the equilibrium of force systems; frames and trusses; centers of gravity; friction. Four lecture periods per week.

Prerequisites: MTSC 252 and PHYS 202.

Credit, three hours.

**PHYS-314. MECHANICS II: DYNAMICS****3:3:0**

Kinematics of particles and rigid bodies; Kinetics of particles, particle systems, and rigid bodies; Dynamics of rigid bodies; Lagrange's equations; Theory of small vibrations. Prerequisites: PHYS 313. Credit, three hours.

**PHYS-316. INTRODUCTION TO PHYSICAL 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 lectures and one two-hour laboratory period per week.

Prerequisites: MTSC 252 and PHYS 202.

Credit, four hours.

**PHYS-319. QUANTITATIVE OPTICAL METHODS AND MICROSCOPY****3:2:2**

Basic operation of light microscopy, fluorescence microscopy, confocal microscopy and two-photon microscopy, study of different quantitative optical methods (fluorescence, non-fluorescence, sub-diffraction, scattering etc.) used in microscopy and their applications for analyzing various samples, analysis of data obtained by microscopy by different numerical and mathematical modeling. This course includes laboratory.

Credit, four hours.

**PHYS-321. HISTORY OF OPTICS****3:2:2**

This is a course to study the development of different theories and phenomenon of light and optical devices. The content area of this course include ancient history of optics, spectacles, the telescope, the microscopes, ray optics, corpuscles, and wavelets, wave optics, electromagnetic waves and quanta, some roots of modern optical systems and quantum optics.

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 lectures per week.

Prerequisites: 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: PHYS 331.

Credit, three hours.

**PHYS-341. ELECTRICITY AND MAGNETISM I****3:3:0**

An intermediate course in the theory of electricity and magnetism. Part I of the course covers topics including electrostatics, dielectric theory, magnetism, magnetic properties of matter, electrodynamics. Three lectures per week.

Prerequisite: PHYS 314.

Credit, three hours.

**PHYS-342. ELECTRICITY AND MAGNETISM II****3:3:0**

An intermediate course in the theory of electricity and magnetism. Part II of the course covers topics including Maxwell's equations and their solutions, wave propagation in various medium, antennas and transmission lines. Three lectures per week.

Prerequisite: PHYS 341.

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 lecture and two two-hours laboratory sessions per week.

Prerequisites: ENGR 205.

**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 lecture and two two-hours laboratory sessions per week.

Prerequisites: PHYS 351.

**PHYS-361. MODERN PHYSICS****4:3:2**

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. Three lectures and one two-hour laboratory period per week.

Prerequisites: MTSC 252 and 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 lectures per week.

Prerequisites: PHYS 314 and 361.

Credit 3 hours.

**PHYS-408. MODERN OPTICAL TECHNIQUES****3:3:0**

This 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.

Prerequisite: PHYS 316.

Credit, three hours.

**PHYS-411. FIBER OPTICS COMMUNICATIONS****4:3:2**

This 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.

Prerequisite: PHYS 316.

Credit, four hours.

**PHYS-413. INTRODUCTION TO LASER PHYSICS****3:3:0**

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 also, modern applications of lasers. Three lectures and one two-hour laboratory period per week.

Prerequisites; PHYS 316 and PHYS 361, or consent of the instructor.

Credit, four hours.

**PHYS-414. PHYSICS OF COLLOIDS AND SURFACES****3:3:0**

Thermodynamics of surfaces, micro- and nano-particles and plasma, electrical double layers, interaction of particles and molecules, electro-kinetics, electro-optics, surface-, bulk- and particle-based assays, laser induced breakdown spectroscopy, Good Laboratory Practice principles, biosensors, surface-to-volume related phenomena and their application in optical, biophysical and biomedical fields. Practical application of surface science on example of multi-element coded Laser induced breakdown spectroscopy methods for detection of biomacromolecules of interest.

Credit, three 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 lecture and two two-hour laboratory periods per week.

Prerequisite: departmental consent.

Credit, three hours.

**PHYS-423. INTRODUCTION TO NONLINEAR OPTICS**

**3:3:0**

The course will develop 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, photorefractive phenomena and their applications.

Prerequisites: PHYS 316, PHYS 362 or consent of the instructor.

Credit, four hours.

**PHYS-441. SELECTED TOPIC IN PHYSICS I**

**3:3:0**

An intermediate course-covering subjects related to current developments in physics.

Prerequisite: departmental permission.

Credit, three hours.

**PHYS-442. SELECTED TOPIC IN PHYSICS II**

**3:3:0**

An intermediate course-covering subjects related to current developments in physics.

Prerequisite: departmental permission.

Credit, three hours.

**PHYS-451. INTRODUCTION TO RESEARCH**

**3:3:0**

This course is an independent study course dealing with current research methodologies in physics. Prerequisite: 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.

## **ENGINEERING (ENGR)**

### **ENGR-205. ELECTRICAL CIRCUIT ANALYSIS**

**4:3:3**

Laws of the electric circuit, analysis of DC and AC circuits, network equations, and network theorems. Three lectures and one three-hour laboratory period per week.

Co-requisite: Mathematics 351

Prerequisites: Physics 202.

Credit, Four hours.

### **ENGR-210. DIGITAL LOGIC DESIGN**

**4:3:1**

Number systems, Boolean algebra and its applications to logic gates, introduction to basic logic circuits, analysis and design of combinational and sequential logic circuits, HDL based logic circuit simulation and design. Three lectures and one two-hour laboratory per week.

Prerequisite: PHYS 220, or CSCI 261.

Credit, Four hours.

### **ENGR-220. MICROPROCESSOR-BASED SYSTEMS**

**4:3:2**

Introduction to small computing machines, architecture organization and programming, I/O, interrupt systems and interfacing. Three lectures and one two-hour laboratory per week.

Prerequisite: ENGR 210.

Credit, four hours.

### **ENGR-302. SIGNALS & 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 signals, modulation, Laplace and Z-transforms. Three lectures and one two-hour laboratory period per week.

Prerequisite: MTSC 352.

Credits, four hours.

### **ENGR-309. ELECTRONIC CIRCUIT ANALYSIS**

**4:3:3**

Introduction to 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 lectures and one three-hour laboratory per week.

Prerequisite: ENGR 205.

Credit, four hours.

### **ENGR-318. 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 3 hours.

### **ENGR-340. SOLID STATE ELECTRONICS**

**3:3:0**

The crystal structure of solids, theory of solids and energy band theory, semiconductor in equilibrium, with electrons and holes concepts, carrier transport in semiconductors and excess carrier phenomenon, the pn junction, metal semiconductor contact, MOS Capacitor, MOSFET and Bipolar junction transistor fundamentals.

Prerequisites: PHYS 202 and CHEM 101.

Credit, three hours.

### **ENGR-342. MATERIAL SCIENCE FOR ENGINEERS**

**4:3:2**

Crystal binding and structure; energetic and structure of lattice defects; structures of inorganic and organic polymers; electronic and magnetic properties; elasticity, stress and strain relationship, plasticity, and fracture;

phase equilibrium and transformations; reactions of structure and treatment to properties. Prerequisite: PHYS 361.  
Three one-hour lectures per week.  
Prerequisites: PHYS 202 and CHEM 101  
Credit, Four hours.

**ENGR-403. INTRODUCTION TO MEMS 3:3:0**

Introduction to MEMS terminology, review of silicon processing techniques, bulk and surface micromachining techniques, materials used for MEMS processes and their properties, basic sensing mechanisms used in MEMS processes, study of basic MEMS based sensors: thermal micro sensors, radiation micro sensors, biochemical micro sensors, mechanical micro sensors, micro actuators, introduction to MEMS device packaging. This course includes a project in which the student has to design a sensor by using software.  
Credit, three hours.

**ENGR-409. BIOSENSORS AND BIOINSTRUMENTATION 3:3:0**

Origins and characteristics of bioelectric signals, recording electrodes, biopotential amplifiers, basic sensors, chemical, pressure, sound, and flow transducers, noninvasive monitoring techniques and electrical safety.  
Prerequisite: PHYS 318.  
Credit, three hours.

**ENGR-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.  
Prerequisite: ENGR 318.  
Credit, four hours.

**ENGR-412. DIGITAL SIGNAL PROCESSING 3:3:0**

An introduction to both the theory and applications in signals and systems. Discrete and continuous time signals and systems, sampling, conversion between analog and digital signals. Prerequisites: ENGR 302.  
Credit: 3 hours.

**ENGR-415. INFRARED DETECTION AND RADIATION 3:3:0**

Blackbody radiation, emissivity, optical detection principle in the infrared region, noise in infrared detection system, figures of merits of infrared detectors, study and design of various infrared detectors- photovoltaic, photoconductive, thermal, photodiodes and multiple quantum well devices. The student has to submit a project as part of the course.  
Credit: Three Hours

**ENGR-444. INTRODUCTION TO VLSI DESIGN 4:3:2**

An introduction to the design and technology of very large scale integrated (VLSI) devices, circuits and systems; topics include logic design fundamentals, graphics layout, clocking and timing, architecture, performance, limitations, packaging, and a required design project. Prerequisite: ENGR 309 and 340. Credit 4 hours.

**ENGR-446. OPTICAL ELECTRONICS 3:3:0**

Photodetectors and photodiodes, solar cells, lasers (gas, solid state and semiconductor); and application of optical devices.  
Prerequisites: PHYS 316 and ENGR 340.  
Credit 3 hours.

**ENGR-452. SELECTED TOPIC IN ENGINEERING I 3:3:0**

An intermediate course-covering subjects related to current developments in engineering.  
Prerequisite: departmental permission.  
Credit, three hours.

**ENGR-454. SELECTED TOPIC IN ENGINEERING II****3:3:0**

An intermediate course-covering subjects related to current developments in engineering.

Prerequisite: departmental permission.

Credit, three hours.

**ENGR-460. POWER SYSTEM ANALYSIS****3:3:0**

AC transmission lines and underground cables, power flow in power system networks, transformers in power system, high voltage DC transmission systems, symmetric components, symmetric and unsymmetrical faults. The students have to use ETAP power analysis and simulation software as part of this course.

Prerequisite: ENGR 205 and ENGR 309.

Credit: Three Hours

**ASTRONOMY (ASTR)****ASTR-101. DESCRIPTIVE ASTRONOMY I****3:2:2**

An introductory course designed primarily for the non-science major. Planetary motion and structure, stellar evolution, black holes, pulsars and quasars, and the main cosmological models are studied. Two lectures and one two-hour laboratory per week.

Credit, three hours.

**ASTR-102. DESCRIPTIVE ASTRONOMY II****3:2:2**

An introductory course designed primarily for the non-science major. Planetary motion and structure, stellar evolution, black holes, pulsars and quasars, and the main cosmological models are studied. Two lectures and one 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 lectures and one three-hour laboratory per week.

Prerequisite: PHYS 202 or consent of instructor.

Credit, four hours.

**ASTR-205. PHOTOGRAPHY AND PHOTOMETRY****4:2:4**

Fundamentals of latent images, optical systems and methods, principles and applications of radiation detectors. Photoelectric and photographic photometry. Two lectures and four laboratory hours per week.

Prerequisite: PHYS 202 or consent of instructor.

Credit, four hours.

**ASTR-301. CELESTIAL MECHANICS****3:3:0**

Application of the laws of motion to satellites, planets, and stars. The two, three, and many body problems. Orbits and their perturbations. Lunar theory: tides and precession. Three lectures per week. Prerequisites: MTSC 351 and 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 lectures per week.

Prerequisite: PHYS 361.

Credit, three hours.

# MILITARY SCIENCE PROGRAM

**DSU has two Military Science programs –the US Army ROTC and the Air Force ROTC.**

Both of these programs at DSU are part of a cross-town agreement that is operated and conducted by the University of Delaware. The mission of the Military Science programs are to produce leaders of character to serve in the nation's defense. The cornerstone of the leadership program is developing self-confidence, teamwork, responsibility, professional ethics, and the development of all aspects of leadership.

## ARMY ROTC

### **The Four-Year Program**

Students at Delaware State University, through a Cross-Enrollment Agreement with the University of Delaware (UD), 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. Basic 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. Courses for the last two years (Advanced) are conducted at the University of Delaware. 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. To qualify the student must have at least two (2) years of full-time academic status remaining. 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 five-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 receive a subsistence allowance each academic month. Upon completion of the program, the obligation is 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 full tuition and fees and \$1,200 for books per year. 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.

## Curriculum in Army ROTC

### FRESHMAN YEAR:

- MLSC-105. ORGANIZATIONAL LEADERSHIP I - Overview course, taken in fall semester.
- MLSC-106. ORGANIZATIONAL LEADERSHIP II – Continuation of MLSC 105, in spring semester.
- MLSC-166. INDEPENDENT STUDY – SPECIAL PROJECT I (taken each semester)

### SOPHOMORE YEAR:

- MLSC-205. ARMY ORGANIZATIONAL LEADERSHIP AND MANAGEMENT I
- MLSC-206. ARMY ORGANIZATIONAL LEADERSHIP AND MANAGEMENT II
- MLSC-266. INDEPENDENT STUDY – SPECIAL PROJECT II (taken each semester)

### JUNIOR YEAR:

- MLSC-305. APPLIED LEADERSHIP I
- MLSC-306. APPLIED LEADERSHIP II
- MLSC-366. INDEPENDENT STUDY – SPECIAL PROJECT III (taken each semester)

### SENIOR YEAR:

- MLSC-405. MILITARY MANAGEMENT I
- MLSC-406. MILITARY MANAGEMENT II
- MLSC-466. INDEPENDENT STUDY – SPECIAL PROJECT IV (taken each semester)

**Courses for the first two years of ARMY ROTC are offered on the DSU campus; courses for the last two years are only on the campus of the University of Delaware, but transportation is provided.**

## AIR FORCE ROTC

### The Air Force Reserve Officer Training Corps Program

The Air Force Reserve Officer Training Corps (Air Force ROTC) program trains qualified college students to earn a commission as second lieutenants in the United States Air Force while completing their university course requirements. Commissioning follows the award of a University bachelor's degree and completion of Air Force ROTC requirements. Air Force ROTC at DSU is offered through a cross enrollment agreement with the University of Delaware (UD). Students who successfully complete the program have the opportunity to earn a commission as a second lieutenant in the U.S. Air Force after 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 as an organization, military history, 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 must attend field training at a designated Air Force base during the summer following their sophomore year of college. When they return to the university in the fall, they are placed 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. Students desiring to enter the AFROTC four-year program should register for GMC classes in the same manner as for other courses. Students in any major with equal to or less than four years, but more than three remaining until graduation may join the program. These students will enter the appropriate GMC class based on their projected graduation date.

**\*Note: Foundations of the USAF I (MLSC 110 & MLSC 111) will be held at Dover Air Force Base. Leadership Laboratory classes are held at the University of Delaware.**

## **Academic Courses**

**Freshman Year:** The Foundations of the USAF I (MLSC 110, fall) and II (MLSC 111, spring) is a required course for AFROTC cadets. Each of these one-credit courses consist of approximately one hour of academic class each week. In combination, these two courses survey the history and organization of the Air Force, its benefits and opportunities, and leadership skills.

**Sophomore Year:** The Evolution of Aerospace Studies I (MLSC 210, fall) and II (MLSC 211, spring) is a required course for AFROTC cadets. Each of these one-credit courses consist of approximately one hour of academic class each week. These two GMC courses survey the history of air power from the 18<sup>th</sup> century to the present. GMC courses are open to all freshmen and sophomore students.

**Junior Year:** Leadership Studies I (MLSC 310, fall) and II (MLSC 311, spring) is a required course for AFROTC cadets. Each of these three-credit courses consist of three hour of academic class each week. Here, the student is introduced to leadership and management concepts. The courses are designed to provide a foundation for basic leadership and management skills, with an emphasis on communication.

**Senior Year:** National Security Studies and Preparation for Active Duty I (MLSC 410, fall) and II (MLSC 411, spring) is a required course for AFROTC cadets. Each of these three-credit courses consist of three hour of academic class each week. These courses focus on our national security policy and its evolution, actors, processes, and current issues. Emphasis is also given to military professionalism, military justice, and communication skills. POC courses are open to all juniors and seniors.

### **Leadership Laboratory**

Leadership Laboratory is required for students who are members of the AFROTC and are eligible to pursue a commission as determined by the Professor of Aerospace Studies. Leadership Laboratory is scheduled for two hours per week for GMC and three hours per week for POC. This is a zero credit lab, and it provides a hands on environment to practice and hone leadership and followership skills, basic military skills, and military decorum.

### **Physical Fitness**

Members of the AFROTC program are required to maintain certain physical fitness standards. Physical training activities are scheduled twice a week for one hour each. In order to participate, members must have a valid DoDMERB physical or sports physical. Forms to document the sports physical are available at the detachment and online.

### **Air Force ROTC Scholarships**

Air Force ROTC scholarships are available to qualified students in all majors, are competitive, and are based on the whole-person concept. Scholarships are awarded in varying amounts and may be used toward tuition and some mandatory fees. All Air Force ROTC scholarships include a yearly book stipend and tax-free monthly allowance. Students who accept these scholarships enter the AFROTC program as a contracted cadet and incur a four year active duty service commitment. Any student accepted by the Delaware State University may apply for AFROTC and these scholarships. AFROTC membership is required to be eligible to compete for a scholarship. Contact the AFROTC unit admission officer for more information.

### **General Requirements for Acceptance into the POC**

The student must complete the General Military Course (GMC) and a four-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.

\*Students may be allowed to complete the program by dual enrollment as a GMC and POC; contact the detachment for details

## Curriculum in Air Force ROTC

### General Military Course (GMC)

#### **FRESHMAN YEAR:**

MLSC 110 Foundations of the Air Force I – Survey course, taken in fall semester.

MLSC 111 Foundations of the Air Force II – Continuation of MLSC 110, in spring semester.

MLSC 150 and MLSC 151 Leadership Laboratory I and II, respectively, to be taken in conjunction with MLSC 110 and MLSC 111 respectively.

#### **SOPHOMORE YEAR:**

MLSC 210 The Evolution of Aerospace Studies I

MLSC 211 The Evolution of Aerospace Studies II

MLSC 250 and MLSC 251 Leadership Laboratory III and IV, respectively

### Professional Officer Course (POC)

#### **JUNIOR YEAR:**

MLSC 310 Leadership Studies I

MLSC 311 Leadership Studies II

MLSC 350 and MLSC 351 Leadership Laboratory V and VI, respectively

#### **SENIOR YEAR:**

MLSC 410 National Security Studies and Preparation for Active Duty I

MLSC 411 National Security Studies and Preparation for Active Duty II

MLSC 450 and MLSC 451 Leadership Laboratory VII and VIII, respectively

**The academic courses are open to any student that is accepted to DSU at any academic level. Students must meet eligibility requirements to enter a military installation, as academic course are held on Dover Air Force Base. However, Leadership Laboratory classes are only open to AFROTC cadets pursuing a commission in the United States Air Force. Transportation to all AFROTC courses is the responsibility of the student.**

## **COURSE LISTING – Both ARMY-ROTC and AIR FORCE-ROTC**

### **MILITARY SCIENCE (MLSC) (47)**

**MLSC-105. ORGANIZATIONAL LEADERSHIP I (ARMY-ROTC) 2:2:0**

Concepts of leadership, basic organizational leadership, practical exercise in interpersonal communications, and decision-making/problem-solving process are covered.

Credit, two hours.

**MLSC-106. ORGANIZATIONAL LEADERSHIP II (ARMY-ROTC) 2:2:0**

Continuation of MLSC-105. 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.

**MLSC-110. THE FOUNDATIONS OF THE AIR FORCE I (Air Force ROTC) 1:1:0**

This survey course briefly covers topics relating to the Air Force and defense. It focuses on the structure and missions of Air Force organizations, officership and professionalism. It is also a good introduction into the use of communication skills. Course only offered in the fall.

Credit, one hour.

**MLSC-111. THE FOUNDATIONS OF THE AIR FORCE II (Air Force ROTC) 1:1:0**

Continuation of MLSC 110. This survey course briefly covers topics relating to the Air Force and defense. It focuses on the structure and missions of Air Force organizations, officership and professionalism. It is also a good introduction into the use of communication skills Course only offered in the spring.

Credit, one hour.

**MLSC-150. LEADERSHIP LABORATORY I (Air Force ROTC) 0:0:0**

This course (to be taken in conjunction with MLSC 110) is a weekly laboratory that touches on the topics of Air Force customs and courtesies, health and physical fitness, and drill and ceremonies. Course only offered in the fall.

Credit, none.

**MLSC-151. LEADERSHIP LABORATORY II (Air Force ROTC) 0:0:0**

This course (to be taken in conjunction with MLSC 111) is a weekly laboratory that touches on the topics of Air Force customs and courtesies, health and physical fitness, and drill and ceremonies. Course only offered in the spring.

Credit, none.

**MLSC-166. INDEPENDENT STUDY – SPECIAL PROJECT I (ARMY-ROTC) 0:2:2**

Taken with MLSC 105 and 106, required. A two-hour hands-on course to develop individuals in squad-level training.

Credit, none.

**MLSC-205. ARMY ORGANIZATIONAL LEADERSHIP AND MANAGEMENT I (ARMY-ROTC) 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 (ARMY-ROTC) 2:2:0**

Continuation of MLSC-205. 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 AEROSPACE STUDIES I -(Air Force ROTC) 1:1:0**

This survey course is concerned with the beginnings of manned flight and the development of aerospace power in the United States, including the employment of air power in WWI, WWII, Korea, Vietnam, the Gulf War and the peaceful employment of U.S. air power in civic actions, scientific missions and support of space exploration. Course only offered in the fall.

Credit, one hour.

**MLSC-211. THE EVOLUTION OF AEROSPACE STUDIES II (Air Force ROTC) 1:1:0**

Continuation of MLSC 210. This survey course is concerned with the beginnings of manned flight and the development of aerospace power in the United States, including the employment of air power in WWI, WWII, Korea, Vietnam, the Gulf War and the peaceful employment of U.S. air power in civic actions, scientific missions and support of space exploration. Course only offered in the spring.

Credit, one hour.

**MLSC-250. LEADERSHIP LABORATORY III -(Air Force ROTC) 0:0:0**

This course (to be taken in conjunction with MLSC 210) provides you with the opportunity to demonstrate fundamental management skills and prepares you for Field Training. Course only offered in the fall.

Credit, none.

**MLSC-251. LEADERSHIP LABORATORY IV -(Air Force ROTC) 0:0:0**

This course (to be taken in conjunction with MLSC 211) provides you with the opportunity to demonstrate fundamental management skills and prepares you for Field Training. Course only offered in the spring.

Credit, none.

**MLSC-266. INDEPENDENT STUDY – SPECIAL PROJECT II (ARMY-ROTC) 0:2:2**

Taken with MLSC 205 and 206, required. A two-hour hands-on course to develop individuals in squad-level training.

Credit, none.

**MLSC-305. APPLIED LEADERSHIP I (ARMY-ROTC) 2:2:0**

Advanced training in 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 (ARMY-ROTC) 2:2:0**

Continuation of MLSC-305. 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 -(Air Force ROTC) 3:3:0**

This course is a study in the anatomy of leadership, the need for quality and management leadership, the role of discipline in leadership situations and the variables affecting leadership. Case studies are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts. Deal with actual problems and complete projects associated with planning and managing the Leadership Laboratory. Course only offered in the fall.

Credit, three hours.

**MLSC-311. LEADERSHIP STUDIES II -(Air Force ROTC) 3:3:0**

Continuation of AFSC 310. This course is a study in the anatomy of leadership, the need for quality and management leadership, the role of discipline in leadership situations and the variables affecting leadership. Case studies are used to examine Air Force leadership and management situations as a means of demonstrating and

exercising practical application of the concepts. Deal with actual problems and complete projects associated with planning and managing the Leadership Laboratory. Course only offered in the spring.  
Credit, three hours.

**MLSC-350. LEADERSHIP LABORATORY V -(Air Force ROTC) 0:0:0**

This course (taken in conjunction with AFSC 310) provides you the opportunity to develop your fundamental management skills while planning and conducting cadet activities. Course only offered in the fall.  
Credit, none.

**MLSC-351. LEADERSHIP LABORATORY VI -(Air Force ROTC) 0:0:0**

This course (taken in conjunction with AFSC 311) provides you the opportunity to develop your fundamental management skills while planning and conducting cadet activities. Course only offered in the spring.  
Credit, none.

**MLSC-366. INDEPENDENT STUDY – SPECIAL PROJECT III (ARMY-ROTC) 1:2:2**

Taken with MLSC 305 and 306, required. A two-hour hands-on course to develop individuals in squad-level training.  
Credit, one hour (each time taken)

**MLSC-405. ADVANCED LEADERSHIP I (ARMY-ROTC) 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. ADVANCED LEADERSHIP II (ARMY-ROTC) 2:2:0**

Continuation of MLSC-405. Military law, operational techniques of the military team, role of the second lieutenant in today's Army, and individual leadership assignments.  
Prerequisites: MLSC-405.  
Credit, two hours.

**MLSC-410. NATIONAL SECURITY STUDIES and PREPARATION for ACTIVE DUTY I (Air Force ROTC) 3:3:0**

Learn about the role of the professional military leader in a democratic society; societal attitudes toward the armed forces; the requisites for maintaining adequate national defense structure; the impact of technological and international developments on strategic preparedness and the overall policy-making process; and military law. In addition, you will study topics that will prepare you for your first active-duty assignment as an officer in the Air Force. Course only offered in the fall.  
Credit, three hours.

**MLSC-411. NATIONAL SECURITY STUDIES and PREPARATION for ACTIVE DUTY II (Air Force ROTC) 3:3:0**

Continuation of AFSC 410. Learn about the role of the professional military leader in a democratic society; societal attitudes toward the armed forces; the requisites for maintaining adequate national defense structure; the impact of technological and international developments on strategic preparedness and the overall policy-making process; and military law. In addition, you will study topics that will prepare you for your first active-duty assignment as an officer in the Air Force. Course only offered in the spring.  
Credit, three hours.

**MLSC-450. LEADERSHIP LABORATORY VII (Air Force ROTC) 0:0:0**

This course (taken in conjunction with AFSC 410) provides you with the opportunity to use your leadership skills in planning and conducting cadet activities. It prepares you for commissioning and entry into the active-duty Air Force. Course only offered in the fall.  
Credit, none.

**MLSC-451. LEADERSHIP LABORATORY VIII (Air Force ROTC)**

**0:0:0**

This course (taken in conjunction with AFSC 411) provides you with the opportunity to use your leadership skills in planning and conducting cadet activities. It prepares you for commissioning and entry into the active-duty Air Force. Course only offered in the spring.

Credit, none.

**MLSC-466. INDEPENDENT STUDY – SPECIAL PROJECT IV (ARMY-ROTC)**

**1:2:2**

Taken with MLSC 405 and 406, required. A two-hour hands-on course to develop individuals in squad-level training.

Credit, one hour (each time taken)

**MLSC-467. MILITARY HISTORY (ARMY-ROTC)**

This course is a requirement for commissioning (May be substituted for comparable course at DSU but requires Program Instructor's approval. A three-hour comprehensive course on military history, strategy, and tactics as employed during periods of armed conflict.

Credit, three hours (each time taken)

# SUSSEX COUNTY PROGRAM

**Delaware State University @ Georgetown**

**William A. Carter Partnership Center**

21225 College Drive  
Georgetown, DE 19947  
(302)500-7011(Phone)  
(302) 500-7012(Fax)

Delaware State University @ Georgetown provides structured course sequences that permit non-traditional students to complete degree requirements. Baccalaureate degree completion sequences are available for Social Work.

For those academic areas for which DSU @ Georgetown does not offer a degree completion sequence, students may complete a portion of their General Education Requirements at the Sussex County location and matriculate to the main campus.

DSU@ Georgetown strives to provide flexibility and options for southern Delaware residents to meet their educational and professional development needs.

Courses are generally scheduled on weekday evenings.

## **Contact Information**

**Associate Director**

Lisa Perelli

Phone: 302.500.7011

Fax: 302.500-7012

[lperelli@desu.edu](mailto:lperelli@desu.edu)

# DSU ONLINE

Delaware State University Online Programs  
3931 Kirkwood Highway  
Wilmington, DE 19808

Delaware State University offers fully online undergraduate and graduate degree programs. Students can get their degree entirely online. DSU Online provides comprehensive services for online students and is designed to meet all of the needs of its student in a responsive, student-centric fashion. Students can expect a high quality, high-value educational experience.

Your time, your place, same high-quality education.

- Staff is accessible online or over the phone to answer questions, offer guidance, and assist with your application and registration.
- Courses are taught by the same high-quality faculty who teach on location in collaboration with associate faculty who are highly placed, well-respected professionals in their fields
- CSWE-accredited MSW program
- Association to Advance Collegiate Schools of Business (AACSB) accredited MBA program

DSU Online offers the following online undergraduate programs:

- Criminal Justice
- Psychology
- Public Health
- Accounting
- Business Management

Whether your goal is career advancement or a career in academia or research, Delaware State University can help you prepare for the road ahead.

Contact Information:

[DSU Online](#)

(844) 348-3657 (toll-free)

# 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 DSU 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 opportunities for intellectual growth and achievement, in small, challenging classes that encourage active intellectual participation, discussion and collaboration in the search for knowledge **(SLO I)**;
2. To enhance student skills for analytical/critical thinking, logical examination and appraisal of ideas **(SLO II)**;
3. To enhance student skills for problem solving and decision making **(SLO III)**;
4. To enhance student skills for clear, precise, coherent and persuasive oral communication **(SLO IV)** and written communication **(SLO V)**;
5. To engage students in the creative process of formulating a hypothesis, researching those problems and drawing conclusions that lead to either original classroom assignments or larger faculty-mentored research projects resulting in contributions of scholarly work to each student's chosen field of study **(SLO VI)**;
6. To prepare honors students through experience with department-based honors courses, interdisciplinary colloquia and seminars, and independent study and research
  - I. to ensure its students' academic success **(SPO I)**,
  - II. to ensure its students earn Honors Program Graduate Certification **(SPO II)**, and
  - III. to prepare its students for graduate and professional schools **(SPO III)**.

**SLO = Student Learning Outcome; SPO = Student Performance Outcome**

## 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 projects.
- Honors senior research thesis.

Honors classes are kept small to promote and stimulate discussion and critical thinking skill development.

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.

Honor students may be eligible for the following:

- Honors student housing;
- Internship opportunities;
- Study Abroad Programs;
- Summer Research Experiences for Undergraduates (REUs).

Honors students are entitled to the following:

- Specialized Classes and Colloquia
- Smaller honors class sizes
- Cohort classes – Freshman, Sophomore, Junior and Senior courses/activities
- Scholarly, diverse, interdisciplinary, and social activities
- Priority advising period
- Priority registration
- Honors faculty advising and mentoring
- Graduate school preparation
- Thesis preparation and defense preparation assistance

### **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.

### **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**

Incoming freshmen may apply for admission into the Honors Program by completing the Honors Program application form included in the University application package or electronically on the University web page. Requirements for entry include:

- Admission to Delaware State University without conditions
- A GPA of 3.25 or higher (on a 4.0 scale)
- An SAT score of 1050 with a minimum of 450 in each category or an ACT score with a minimum of 22 in each category (Mathematics and Critical Reading)
- Letters of recommendation from (2) two high school instructors
- A typed essay of 400-600 words explaining the desire to be admitted into the program
- A list of academic and extracurricular achievements/awards

### **Transfer and Continuing Students**

A transfer or continuing student may apply to the Honors Program no later than the beginning of his or her junior year. SAT requirements are waived for transfer and continuing student admission.

The requirements for entry include:

- A GPA of 3.25 or higher (on a 4.0 scale)
- Official college transcripts (unofficial transcripts for DSU students)
- Letters of recommendation from two college instructors
- A typed essay of 400-600 words explaining the desire to be admitted into the program
- A list of academic and extracurricular achievements/awards

### **Honors Program Graduate Designation Requirements**

An Honors Program Student may earn Honors Program Graduate designation 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 the Honors Council for Honors Program Graduate designation and completes an Honors Inventory form by the end of the semester before he/she graduates.

Honors students who are approved for Honors Program Graduate designation 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.

See the Honors Program website at <http://www.desu.edu/honors-program> for information regarding courses, Student Learning Outcomes and other important topics.

# STUDENT ACCESSIBILITY SERVICES

Delaware State University complies with the Americans with Disabilities Act as amended (ADAAA) and other current state and federal legislation, which prohibits discrimination and protects the rights of people with disabilities. University College Student Accessibility Services (SAS) provides equal opportunities and equal access to education, programs, and activities for all students with disabilities at Delaware State University. SAS works collaboratively with University Partners to foster a welcoming, diverse, and inclusive University community.

In achieving this, SAS collaborates with and empowers students who have documented disabilities by working together proactively. SAS determines reasonable and appropriate accommodative measures and provides institution-wide advisement, consultation, and training on disability-related topics, including legal and regulatory compliance, universal design, and disability scholarship.

Students with disabilities who are interested in requesting reasonable accommodations must submit appropriate documentation to the Student Accessibility Services Coordinator before requesting accommodations. Documentation from a licensed medical or mental health professional; including but not limited to a physician, clinical/school psychologist, licensed counselor, nurse practitioner, specialist, clinical social worker, or psychiatrist; is required.

Further information regarding support services for students with disabilities including Documentation Requirements, the Student Request for Accommodations Form, the process for renewing Accommodation Letters can be found on the [SAS website](#) or by contacting the office directly.

## **Student Accessibility Services (SAS)**

Ann Knettlar-Smith, M.A. – Coordinator

Phone: 302-857-6898

Email: [aksmith@desu.edu](mailto:aksmith@desu.edu)

Fax: 302-857-7202

Office: William C. Jason Library, Room 204

# UNIVERSITY COLLEGE

**Dear DSU Hornets:**

On behalf of the University College, it is with great pleasure to welcome you into our exceptional university as part of the Hornet Family!

The University College is designed to introduce new students to one of the most exciting and critical journeys in life – your college experience. With the guidance and support of academic advisors, you will embark on an intellectual and holistic journey at DSU that will yield a challenging, rewarding and equally enjoyable social experience.

University College first-year advisors are prepared to provide you with a structured and unique experience. Our programs are formed to support your academic needs and to help you succeed during your freshman year and beyond, as you persist toward graduation.

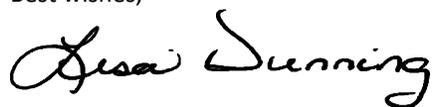
We are confident that we can assist you in devising an educational plan and introduce you to career goals that are closely aligned to your academic interests. Your academic advisor will partner with you to build your individual development plan (IDP). Our expectation is that your IDP will keep you engaged and on a solid path to graduate with four years.

Ongoing student engagement is facilitated through our primary objective of surrounding you with an integrated and robust academic community. Our goal is to ensure that campus resources are accessible to you at every turn so that you can focus on successful completion of your first year at DSU. During your freshman year, University College academic advisors work very closely with campus wide faculty and staff to ensure that you receive exposure to your desired degree program of interest, and to facilitate your participation in co-curricular activities within your academic major.

While academic progress during your first year at DSU is paramount, the University College is committed to student success at every level. Upon completion of your freshmen year, your advisor will ensure that you experience a successful transition into your degree program prior to the start of your sophomore year.

Lastly, as you prepare to begin your freshman year, we encourage you to be eager to learn, determined to succeed, value every opportunity, and stretch beyond ordinary expectations. We look forward to joining you on the first year of your educational journey at DSU!

Best wishes,

A handwritten signature in black ink that reads "Lisa Dunning". The signature is written in a cursive, flowing style.

Dr. Lisa Dunning  
Associate Vice President for Academic Affairs | University College

# UNIVERSITY COLLEGE TESTING SERVICES AND PROGRAMS

University College Testing Services and Programs provides testing services to DSU students, local colleges and universities, distance education online programs, local and national businesses and organizations in the surrounding communities (Kent, Sussex and New Castle) and states (Delaware, Maryland, Eastern Shore Virginia, Pennsylvania, New Jersey, New York and D.C.).

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. An example of services offered: Federal Aviation Administration exams (FAA), PSI State Licensure Exams Praxis I & II exams, Graduate Record Exam (GRE), National Board Certified Counselors, MPRE, PearsonVUE Credentialing Exams, Law School Admission Test (LSAT), Miller Analogies Test (MAT) and many more.

Testing Services and Programs 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 establishing and implementing guidelines for awarding credit-by-examination (CBE) such as CLEP and DANES (DSST). Challenge Exams are also available. Please find the policy under the University College.

Testing Services and Programs is committed to strive for excellence and quality service. The ultimate goal for the office is to be the premium testing location in the Tri-State area and the Atlantic Region.

<https://www.desu.edu/academics/university-college/uc-services/testing-services-programs>

<https://www.desu.edu/academics/university-college>

*If our customers are happy, we are happy!*

**Contact information:**

[Testing@desu.edu](mailto:Testing@desu.edu)

**(302) 857-6144**

# **COUNSELING CENTER SERVICES**

**Individual and Group Counseling**  
**Personal Development Workshops**  
**Crisis Intervention**  
**Substance Abuse Counseling**  
**(Personal issues support)**  
**Sexual Assault Support Service program**  
**Peer Counseling Program**

The University Counseling Center is designed to support the retention and graduation goals of the University. It functions to aid students in eliminating the non-academic barriers, which tend to interfere with the attainment of academic aspirations. The Counseling Center also educates the student population about the various resources offered by the institution that maximize their educational opportunities.

The University Counseling Center supports student success in college by offering students the opportunity to work with Professional Counselors to explore and resolve problems and situations that tend to impede their academic, personal, social, and/or vocational adjustment to college.

The University Counseling Center is located in the Education and Humanities Building, Room 123 and is open from 8:30 AM to 4:30 PM, Monday-Friday. Students are typically seen by appointment; however, students in crisis are seen as needed (walk-in). For appointments, please contact the Office of Counseling Services at (302) 857-7381 or by walking into the offices located in the Education and Humanities Building.

# CAREER SERVICES AND STUDENT EMPLOYMENT

[Career Services](#)  
[Student Employment](#)

Career Services supports the mission and advancement of Delaware State University as a premier institution of higher learning. The office creatively coordinates career-related programs and services to connect students to internship and employment opportunities, including on-campus jobs. Students can access counselors for individual counseling, resume assistance, graduate school applications, workshops, career fairs, on-campus interviewing, internships and job searches. Students can also engage with our office through social media, our mobile app and online services. The office seeks to remain current with the latest career services technology platforms.

Our staff of career development professionals shares knowledge of labor market trends and employment requirements using technological and practical resources to provide students with the talent to conduct job searches, become proficient in effective interviewing and presentation, and understand the fit between their competencies and occupational requirements.

During the academic year, we bring in hundreds of representatives from business and industry, government, not-for-profit organizations, graduate schools, and public/private school systems to interview prospective graduates and underclassmen for permanent and seasonal positions. Career Services also maintains many online resources with the necessary tools to conduct job searches, explore career options, and much more.

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 and Student Employment are located in the MLK Student Center, Suite 333.

Career Services' contact number is (302) 857-6120. Student Employment's contact number is (302) 857-6138.

The fax for both offices is (302) 857-6123.

General email: [careerservices@desu.edu](mailto:careerservices@desu.edu) & [studentemployment@desu.edu](mailto:studentemployment@desu.edu).

Director, Dr. Bill Means, ([bmeans@desu.edu](mailto:bmeans@desu.edu)); Career Coach, Ryane Cheatham ([rcheatham@desu.edu](mailto:rcheatham@desu.edu)); Internship Coordinator, Student Employment Coordinator, Adrienne Clarke ([aclarke@desu.edu](mailto:aclarke@desu.edu)), Administrative Secretary, Jacqueline Hendy ([jhendy@desu.edu](mailto:jhendy@desu.edu)).

## OFFICE OF VETERANS AFFAIRS

The [Office of Veterans Affairs](#) is designed to provide the veteran student and military dependent with educational, personal, psychosocial, and all other administrative services and counseling assistance as needed, including case management and files maintenance. Our office is the infrastructure on campus to support the active duty service members, student veterans and their eligible student dependents.

We intervene in their key areas of life functioning to ensure positive social interaction, academic success, and overall enhancement of each student's University experience. We advocate on and off campus for our military students and assist the University in providing necessary resources, referrals, and services in compliance with specific Veterans Affairs and related state and federal statutes.

We are the liaison with the Department of Veterans Affairs (DVA), Department of Higher Education (DHEC), and the State Approval Agency (SAA), Department of Education, and military units as it relates to our military students' approved academic programs and related affairs.

Vocational, educational and professional counseling, evaluation of abilities and aptitudes, tutoring and rehabilitative services, and VA Work-Study are available to our eligible military students and/or their dependents from the Department of Veterans Affairs.

# CENTER FOR TEACHING & LEARNING

*“Linking Professional Development to University Improvement”*

The Center for Teaching and Learning (CTL) of Delaware State University maintains a focus of linking professional development to university improvement. Its principle mission is to strengthen and support academic programs that improve teaching and learning across all mediums of education for instructors and students by providing ongoing faculty support services. The CTL is a supportive resource for the faculty, adjunct professors, and teaching assistants of Delaware State University. We offer a variety of services that encourage and support our instructors to be effective and successful within their classrooms.

**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:** Improve outreach efforts and collaboration with local, K-12 agencies and schools.

**Services offered:**

- Conference/Professional Meeting Travel Funding
- Mini Grant Research Competition for Faculty
- Classroom Observations and Consultation Services
- Online Student Course Evaluations
- Workshops and professional development forums on a variety of topics related to teaching, learning and assessment.
- Collaboration, support and participation in local educational agencies' priorities and efforts.

Services of the Center for Teaching & Learning (CTL) are supported by Title III federal funding.

The Center for Teaching & Learning  
Conwell Hall, 2<sup>nd</sup> Floor  
(302) 857-6140 Phone  
(302) 857-7536 Fax  
[CTL@desu.edu](mailto:CTL@desu.edu)  
[CTLCourseEvals@desu.edu](mailto:CTLCourseEvals@desu.edu)  
[www.desu.edu/CTL](http://www.desu.edu/CTL)

# OFFICE OF INTERNATIONAL AFFAIRS

As the central office responsible for coordinating the University's international activity, the Office of International Affairs (OIA) 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 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 officially invites J1 Visa research professors, post-doctoral fellows, research scholars, student non-degree and short-term scholars from our international 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 welcomes international students on F-1 student visas from around the world to our learning community each academic year. The OIA provides information and programs to F-1 international students about the campus and community and provides support, updates, and assistance concerning F-1 visa and related immigration issues. The OIA is committed to ensuring that international students have a rewarding academic and personal experience as they pursue their degree at Delaware State University (DSU). We help international students adapt to DSU and the USA; we are their home away from home.

The OIA provides a number of services:

- Assistance with financial, academic, social, and personal matters;
- Campus and community activities;
- Assistance with students' cultural concerns and/or referrals to counseling services, if requested;
- Orientation for new international students;
- Assistance to faculty, staff, and student organizations to plan programs, events and forums that speak to international experiences;
- Assistance to students who have difficulties with the U.S. education system;
- Dissemination of important information pertaining to international student life; and
- Sponsorship/co-sponsorship of programs, events, and speakers.

The OIA 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 are better prepared for graduate school and have gainful employment in the global economy.

Study abroad programs at DSU:

- Ghana
- China
- South Korea
- Costa Rica
- England
- Dominican Republic
- Poland

Students have also studied abroad with our affiliated providers in Spain, France, Japan, Australia, and participated in Semester at Sea Programs.

Delaware State University has joint education programs with Changchun University of Science and Technology, Ningbo University of Technology and Sanming University, and the following formal international partnerships:

- Beihua University, China
- University of Caen, France
- Changchun University of Sciences and Technology, China
- University of Cheikh, West Africa
- Chonnam National University, Korea
- Chungbuk National University, Korea
- Groupe Sup de Co la Rochelle, la Rochelle Business School, France
- Hunan Normal University, China
- International University of Business Agriculture and Technology, Bangladesh
- Jeju National University, China
- College of Jilin Business and Technology, China
- Jilin Huaqiao Foreign Languages Institute, China
- Changchun Normal University, China
- Shenyang University of Technology, China
- Benson Idahosa University, Nigeria
- GE Nigeria, Nigeria
- Loyola College, India
- Jishou University, China
- Kyung Kee University, Korea
- Ningbo University, China
- Ningbo University of Technology, China
- North-West University, Mafkeng Campus, South Africa
- Sanming University, China
- Université de Versailles, Saint-Quentin-en-Yvelines, France
- Vietnam National University, Vietnam
- Zhaoqing University, China

#### **Staff**

**Dr. Fengshan Liu**, Associate Vice President for International Affairs  
(302) 857-6421, [fliu@desu.edu](mailto:fliu@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**, Manager  
(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

Aikins	Anthea	Biological Sciences	Assistant Professor	Ph.D.	Microbiology-Medicine and College Teaching	University of Missouri
Akey	Jennifer	Nursing	Associate Professor	EdD	Educational Leadership	Delaware State University
Aleong	Chandra	Education	Associate Professor	Ed.D.	Higher Education Administration	University of Pennsylvania
Amoako	Joe	English and Foreign Languages	Professor	Ph.D.	Linguistics	University of Florida
Anakwe	Bridget	Accounting, Economics and Finance	Associate Professor	Ph.D.	Accounting	Rutgers, The State University of New Jersey
Anderson	Amanda	English	Assistant Professor	Ph.D.	English	University of Louisiana at Lafayette
Austin*	John	Social Work	Professor	D.S.W.	Social Work	Virginia Commonwealth University
Awadzi	Carrie	Management	Visiting Assistant Professor	Ed.D.	Organizational Leadership	Wilmington University
Awadzi	Winston	Business Administration	Professor	Ph.D.	Management	Louisiana State University
Awodiya	Daniel	Mass Communication	Associate Professor	Ph.D.	Communication	Howard University
Bailey	Sabrina	Education	Instructor	B.S.	Marketing Management	Wilmington University
Balogun	Fidelis	English and Foreign Languages	Professor	Ph.D.	Slavic Languages and Literature	University of Illinois at Urbana-Champaign
Balzarini	John	Sociology and Criminal Justice	Assistant Professor	Ph.D.	Sociology	Temple University
Banerjee	Padmini	Psychology	Associate Professor	Ph.D.	Human Development and Family Studies	The Pennsylvania State University - University Park

Barczewski	Richard	Agriculture and Natural Resources	Professor	Ph.D.	Animal Science	University of Maryland College Park
Beaumont-Young	Hazel	Art	Associate Professor	Ph.D.	Art Education	The Ohio State University
Becker	Carla	Music	Assistant Professor	Ed.D.	Music and Music Education	Teachers College, Columbia 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
Bell-Rogers	Nicole	Nursing	Associate Professor	Ph.D.	Nursing	Hampton University
Besong	Samuel	Human Ecology	Professor	Ph.D.	Animal Science	University of Kentucky
Beugre'	Constant	Business Administration	Professor	Ph.D.	Management	Rensselaer Polytechnic Institute
Blade	Janet	Sport Management	Associate Professor	Ed.D.	Sport Management	United States Sports Academy
Blake	Andrew	English and Foreign Languages	Associate Professor	Ed.D.	Innovation and Leadership	Wilmington University
Bluemel	Brody	English	Assistant Professor	Ph.D.	Applied Linguistics and Asian Studies	The Pennsylvania University
Bobrowsky	Matthew	Mathematical Science	Visiting Assistant Professor	Ph.D.	Physics and Astronomy	University of Maryland, College Park
Boukari	Hacene	Physics and Pre-Engineering	Professor	Ph.D.	Chemical Physics	University of Maryland College Park
Broderick	Cyril	Agriculture and Natural Resources	Professor	Ph.D.	Plant Science	University of New Hampshire
Brooks-Collins	Phyllis	History, Political Science and Philosophy	Assistant Professor	Ph.D.	Organizational Leadership	University of Maryland Eastern Shore

Casson	Cherese	Chemistry	Associate Professor	Ph.D.	Chemistry	Virginia Polytechnic Institute and State University
Casson	Michael	Accounting, Economics and Finance	Associate Professor	Ph.D.	Agriculture and Resource Economics	University of Connecticut
Chen	Li	Sport Management	Professor	Ed.D.	Physical Education	Springfield College
Cheng	Yinghong	History, Political Science and Philosophy	Professor	Ph.D.	History	Northeastern University
Chrisman	James	Education	Professor	Ed.D.	Educational Supervision	University of Louisville
Christopher	Jan	Accounting, Economics and Finance	Associate Professor	Ph.D.	Economics	Howard University
Clark	June	Hospitality and Tourism	Associate Professor	Ph.D.	Human Services	Oklahoma State University
Colbert	William	Art	Associate Professor	M.F.A.	Art	University of Delaware
Gautam	Chetanath	Education	Assistant Professor	Ed.D.	Educational Leadership	Stephen F. Austin State University
Crawford	Lori	Art	Associate Professor	M.F.A.	Computer Art	Savannah College of Art and Design
Danz	Sally	Nursing	Associate Professor	Ph.D.	Educational Leadership	University of Delaware
Das	Nandita	Accounting, Economics and Finance	Associate Professor	Ph.D.	Economics	West Virginia University
Dawley	Edward	English and Foreign Language	Associate Professor	Ph.D.	Modern French Studies	University of Maryland
Davidson	Adenike	English and Foreign Language	Professor	Ph.D.	English Language and Literature	University of Maryland
Davis	LaPointe	Music	Professor	Ph.D.	Music	The Ohio State University

DeLauder*	Sandra	Graduate Studies and Research	Dean of Graduate Studies	Ph.D.	Chemistry	Howard University
Dhillon	Harbinder	Biological Sciences	Professor	Ph.D.	Biochemistry	Rutgers, The State University of New Jersey
Dillard	Dorothy	Sociology and Criminal Justice	Associate Professor	Ph.D.	Sociology	University of Delaware
DiMaria	Peter	Chemistry	Associate Professor	Ph.D.	Biochemistry	Temple University
Edwards	Francine	Mass Communications	Associate Professor	Ph.D.	Communication and Culture	Howard University
Edwards-Omelawa	Nicola	Mathematical Sciences	Associate Professor	Ph.D.	Education	University of Delaware
Elavarthi	Sathya	Agriculture and Natural Resources	Associate Professor	Ph.D.	Plant Science	Oklahoma State University
Ette	Ezekiel	English	Associate Professor	Ph.D.	Social Work Immigration/Social Research	Portland State University
Falodun	Joseph	Education	Associate Professor	Ph.D.	Education	University of Pennsylvania
Fees	Joseph	English & Foreign Languages	Visiting Assistant Professor	Ph.D.	Spanish Literatures	University of Austin Texas
Finger-Wright	Dolores	Social Work	Associate Professor	D.S.W.	Social Work	Howard University
Fletcher	Charles	Business Administration	Visiting Professor	Ph.D.	Systems Analysis & Economics	The Johns Hopkins University
Fletcher	Kami	History	Assistant Professor	Ph.D.	African American History, Race and Gender Studies, and Death and Cemeteries	Morgan State University

Fondong	Vincent	Biological Sciences	Professor	Ph.D.	Epidemiology	Cornell University
Fox	Dewayne	Agriculture and Natural Resources	Professor	Ph.D.	Zoology	North Carolina State University
Franklin	Franzine	Social Work	Assistant Professor	Ph.D.	Social Work	Catholic University of America
Friel	Brian	Psychology	Associate Professor	Ph.D.	Experimental Psychology	Kansas State University
Gazda	Frank	Music	Professor	D.M.A.	Music	University of Maryland College Park
German	Myna	Mass Communications	Associate Professor	Ph.D.	Literature and Philosophy in Communication	University of South Africa at Pretoria
Girgis	Laila	Mathematical Sciences	Lecturer	Ph.D.	Applied Mathematics	Delaware State University
Gitcho	Michael	Biological Sciences	Associate Professor	Ph.D.	Cellular & Molecular Pharmacology	Saint Louis University
Gomez	Cara	Public and Allied Health Sciences	Assistant Professor	Ed.D.	Innovation & Leadership-Organization Leadership	Wilmington University
Gomia	Victor	English and Foreign Languages	Associate Professor	Ph.D.	Post-Colonial Literature	University of Yaoundé, Cameroon
Goote-Ash	Amy	Public & Allied Health Sciences	Instructor	MS	Health Science	James Madison University
Govindarajulu	Chittibabu	Business Administration	Associate Professor	Ph.D.	Management Information Systems	University of Mississippi
Grant	Lori	Nursing	Associate Professor	Ph.D.	Nursing	Wilmington University
Gunther	Jennifer	Art	Assistant Professor	MA	Art Therapy	George Washington University
Guo	Mingxin	Agriculture and Natural Resources	Professor	Ph.D.	Soil Science	The Pennsylvania State University - University Park

Guo	Wieping	Chemistry	Lecturer	Ph.D.	Chemistry	Pennsylvania State University
Gupta	Sangeeta	Public & Allied Health Sciences	Associate Professor	Ph.D.	Psychiatry	Lady Harding Medical College
Gwanmesia	Gabriel	Physics and Pre-Engineering	Professor	Ph.D.	Earth and Space Sciences	State University of New York at Stony Brook
Hagos	Asgede	Mass Communications	Professor	Ph.D.	African Studies	Howard University
Hans	Krystal	Biological Sciences	Assistant Professor	Ph.D.	Biology	University of Winslow Ontario Canada
Hazera	Alejandro	Accounting, Economics and Finance	Associate Professor	D.B.A.	Accounting	University of Kentucky
Heckscher	Christopher	Agriculture and Natural Resources	Associate Professor	Ph.D.	Entymology and Wildlife Ecology	University of Delaware
Hei	Xiali	Computer and Information Sciences	Assistant Professor	Ph.D.	Computer and Information Sciences	Temple University
Hill	Anthony	Social Work	Associate Professor	Ph.D.	Social Work	Howard University
Hill	Janet	Education	Associate Professor	Ph.D.	Curriculum and Instruction	Kent State University
Hoff	Samuel	History, Political Science and Philosophy	Professor	Ph.D.	Political Science	State University of New York at Stony Brook
Hoffman	Patrick	Music	Professor	D.M.A.	Music	University of Georgia
Holness	Gary	Computer and Information Sciences	Associate Professor	Ph.D.	Computer Science	University of Massachusetts Amherst
Horton	Marsha'	Education, Health and Public Policy	Professor	Ph.D.	Educational Psychology	University of Illinois

Jackson-Taylor	Erica	Public and Allied Health Sciences	Associate Professor	Ph.D.	Exercise Science	University of Georgia
Jarrett	Earl Caesar	Biology	Instructor	MS	Forensic Medicine	University of New Haven
Johnson	Delayne	Mathematical Sciences	Associate Professor	Ph.D.	Education	University of Delaware
Kalavacharla	Venugopal	Agriculture and Natural Resources	Professor	Ph.D.	Plant Science	North Dakota State University
Katz	Michael	Accounting, Economics and Finance	Professor	J.D.	Law	Widener University
Khan	Mohammad	Physics & Engineering	Associate Professor	Ph.D.	Electrical Engineering	Old Dominion University
Kiesel	Eleanor	Social Work	Assistant Professor	MSW	Social Work	
Kern	Donald	Education	Assistant Professor	Ed.D.	Organizational Leadership	Wilmington University
Kim	Daeryong	Business Administration	Professor	Ph.D.	Management Information Systems	University of Mississippi
Kim	Keun Kyu	Education	Associate Professor	Ph.D.	Early Childhood Education	University of Georgia
Kim	Young-Gi	Chemistry	Assistant Professor	Ph.D.	Polymer Science	University of Massachusetts
Kim	Young-Hwan	Biological Sciences	Associate Professor	Ph.D.	Physiological Science	University of California
Kong	Kam	Computer and Information Sciences	Associate Professor	Ph.D.	Mathematical Sciences	Purdue University
Krawitz	Robin	History, Political Science and Philosophy	Research Assistant Professor	M.A.	History	Colorado State University
Kuperavage	Adam	Public & Allied Health Sciences	Associate Professor	Ph.D.	Philosophy	Pennsylvania State University

Kwak	Young-Silk	Accounting, Economics and Finance	Professor	Ph.D.	Finance	University of Mississippi
Lai	Cheng-Yu	Chemistry	Associate Professor	Ph.D.	Inorganic Chemistry	Iowa State University
Lamar	Horace	Music	Associate Professor	D.M.Ed.	Music Education	University of Southern Mississippi
Lawal	Hakeem	Biological Sciences	Associate Professor	Ph.D.	Biology	University of Alabama
Lee	Jung-Lim	Human Ecology	Associate Professor	Ph.D.	Food Biochemistry	Kyung-Hee University, South Korea
Lim	Jihye	Human Ecology	Assistant Professor	Ph.D.	Fiber & Polymer Science	North Carolina State University
Lin	Zhongyan	Computer and Information Sciences	Associate Professor	Ph.D.	Mathematics	University of Delaware
Liu	Jinjie	Mathematical Sciences	Associate Professor	Ph.D.	Computational Applied Mathematics	State University of New York at Stoney Brook
Lloyd	Andrew	Biological Sciences	Professor	Ph.D.	Microbiology	University of Virginia
Lott	Dawn	Mathematical Sciences	Professor	Ph.D.	Applied Mathematics	Northwestern University
Lu	Qi	Physics and Engineering	Associate Professor	Ph.D.	Physics	Clemson University
Maity	Devdeep	Business Administration	Assistant Professor	Ph.D.	Marketing	Oklahoma State University
Makrogiannis	Sokratis	Mathematics	Associate Professor	Ph.D.	Physics	University of Patras
Mallory	Lloyd	Music	Associate Professor	D.M.A.	Music	University of California at Los Angeles

Maloney Rothermel)	Megan	Public & Allied Health Sciences	Instructor	MS	Applied Health Physiology	Salisbury University
Marcano	Aristides	Physics and Engineering	Research Professor	Ph.D.	Non-Linear Optics, Laser Spectroscopy	Moscow State University
Marine	Renee	Mass Communication	Assistant Professor	MA	Journalism	New York University
Marker	Elaine	Education	Associate Professor	Ed.D.	Language Arts / Literacy	Widener University
Markushin	Yuri	Physics & Engineering	Assistant Research Professor	Ph.D.	Biophysics/Biopolymers/Laser Spectroscopy	Moscow State University
Marsh	Dyremple	Agriculture and Related Science	Professor	Ph.D.	Horticulture	University of Minnesota
Martin	Robert	Education	Associate Professor	Ed.D.	Curriculum and Instruction (Physical Education)	Columbia University
Mason	Robert Chris	Public and Allied Health Sciences	Assistant Professor	Ph.D.	Kinesiology	University of Georgia
McGary	Sabrina	Biological Sciences	Associate Professor	Ph.D.	Animal and Avian Sciences	University of Maryland College Park
McIntosh	Dennis	Agriculture and Natural Resources	Research Professor	Ph.D.	Soil, Water and Environmental Science	University of Arizona
Melikechi*	Noureddine	Physics and Engineering	Professor	D.Phil.	Physics	University of Sussex, England
Mercer	Devin	Music	Visiting Lecturer	M.M	Music Voice	The Joh Hopkins University
Miletti-Gonzalez	Karl	Biological Sciences	Associate Professor	Ph.D.	Microbiology and Mol Genetics	University of Medicine & Dentistry of NJ & Rutgers University
Milutinovic	Janko	Computer and Information Sciences	Associate Professor	Ph.D.	Physics	University of Maryland College Park

Morrison	Mable	Music	Associate Professor	M.M.	Music	DePaul University
Muzorewa	Susan	Accounting, Economics and Finance	Associate Professor	Ph.D	Accounting	Morgan State University
Newton	Faith	Education	Professor	Ed.D.	Educational Administration	The College of William and Mary
Newton	Steven	History, Political Science and Philosophy	Professor	Ph.D.	History	The College of William and Mary
Ning	Nancy (Zi)	Accounting, Economics and Finance	Associate Professor	Ph.D.	Business	The University of Texas at San Antonio
Nunlee	Martin	Business Administration	Associate Professor	Ph.D.	Business Administration	University of Illinois at Urbana-Champaign
Nurse	Myrna	English and Foreign Languages	Associate Professor	Ph.D.	English	Temple University
Oh	Jungmi	Human Ecology	Associate Professor	Ph.D.	Clothing, Textiles, & Merchandising	Florida State University
Olsen	Julie	Public & Allied Health Sciences	Instructor	MS	Applied Health Psysiology	Salisbury University
Osei	Akwasi	History, Political Science and Philosophy	Professor	Ph.D.	African Studies	Howard University
Ossandon	Heather	Art	Vising Assistant Professor	MA	Art	University of Delaware
Ouassini	Anwar	Sociology and Criminal Justice	Assistant Professor	Ph.D.	Sociology	University of New Mexico

Ozbay	Gulnihal	Agriculture and Natural Resources	Professor	Ph.D.	Fisheries and Allied Aquacultures	Auburn University
Parker	Laurin	Sociology and Criminal Justice	Associate Professor	Ph.D.	Sociology	The American University
Parrotta	Kylie	Sociology and Criminal Justice	Associate Professor	Ph.D.	Sociology	North Carolina State University
Patel	Shilpa	Computer and Information Sciences	Lecturer	M.S.	Computer Science	Drexel University
Pati	Gour	Physics and Engineering	Professor	Ph.D.	Physics	India Institute of Technology
Patterson	Donna	History, Political Science and Philosophy	Associate Professor	Ph.D.	Philosophy	Indiana University
Pepper	Valarie	Accounting, Economics and Finance	Visiting Assistant Professor	MBA	Business Administration	Delaware State University
Perrine	Ava	Mass Communications	Instructor	MS	Human Resources Management	Wilmington University
Petrovic	Tina	Social Work	Professor	Ph.D.	Social Work	Morgan State University
Phillips	Richard	Education	Associate Professor	Ph.D.	Organizational Leadership in Education	University of Maryland Eastern Shore
Pierre	Yvette	Education	Assistant Professor	Ph.D.	Education: Teaching and Learning	The Ohio State University
Pinjani	Praveen	Business Administration	Associate 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
Pulverman-Silver	Rachael	Psychology	Associate 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
Radu	Daniela	Chemistry	Associate Professor	Ph.D.	Chemistry	Iowa State University
Ralston	Kevin	Sociology and Criminal Justice	Assistant Professor	Ph.D.	Sociology	University of Delaware
Rana	Mutki	Physics and Engineering	Associate 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
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Sadoughi	Mohammad	Business Administration	Associate Professor	Ed.D.	Business Teaching	University of Northern Colorado
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