



# Virginia State University



2016-2018

Undergraduate Catalog

Virginia State University  
1 Hayden Drive  
Virginia State University, Virginia

# VIRGINIA STATE UNIVERSITY

## UNDERGRADUATE CATALOG

**2016-2018**



This catalog describes academic courses, programs, and standards for student progress and retention at time of publication. However, the provisions of this publication are not to be regarded as an irrevocable contract between the student and Virginia State University. There are established procedures for making changes, which protect the institution's right to make changes that are deemed appropriate. A change of curriculum or graduation requirement is not made retroactive unless the alteration is to the student's advantage and can be accommodated within the span of years normally required for graduation.

Virginia State University is committed to a policy of equal opportunity in education and employment without regard to race, creed, sex or national origin. There are affirmative programs at VSU that support the commitment to this democratic approach to public education.

## TABLE OF CONTENTS

### BOARD OF VISITORS AND ADMINISTRATION

Presidents.....	5
Board of Visitors .....	6
Administration.....	7

### THE UNIVERSITY

History.....	8
The Mission.....	9
Accreditation and Affiliations .....	10
Policy Statements .....	12
Alcohol and Drug Policy .....	12
Americans with Disability Accessibility Policy.....	14
Sexual Harassment Policy .....	15
Prohibition of Workplace Harassment.....	17
Family Educational Rights and Privacy Act of 1974 .....	21
Transfer Policy .....	23
The Student Academic Code.....	24

### ACADEMIC REGULATIONS AND PROCEDURES

Admissions .....	26
Academic Honors .....	32
Academic Sanctions.....	40
Academic Honesty .....	32
Advanced Scholars Program .....	32
Baccalaureate Degree.....	33
Change of Major.....	33
Classification of Students .....	33
Classroom Attendance.....	33
Concentration .....	33
Concurrent Enrollment.....	33
Continuing Education Student .....	34
Course Load .....	34
Course Numbering System .....	34
Course Waivers and Substitutions .....	34
Credit by Examination .....	34
Credit Hour .....	34
Degrees.....	35
Examinations.....	35
Financial Aid.....	35
Foreign Language Requirement .....	35
Grades .....	35
Grade-Point Average (GPA).....	36
Grade Review Procedure .....	36
Grade Reports .....	36
Graduation Procedures.....	36

Immunization .....	36
Laboratory Enrollment .....	36
Last 27 Credits .....	36
Major .....	36
Minor .....	37
Policy Exemptions and Appeals .....	38
Proficiency Examinations.....	39
Registration.....	37
Repeat Grade.....	37
Residency Requirements.....	39
Transfer Credits .....	37
 <b>GENERAL EDUCATION PROGRAMS</b>	
Learning Outcomes.....	45
General Education Program Provisions, Requirements, and Courses .....	46
General Education Assessment requirements for freshmen and juniors.....	46
VSU General Education Assessment Course Descriptions .....	401
General Education Menus .....	47
 <b>SPECIAL ACADEMIC PROGRAMS</b>	
Bachelor of Individualized Studies Degree .....	52
Virginia State University at Fort Lee .....	55
Honors Program .....	55
Veterans and Military Affairs .....	56
 <b>UNDERGRADUATE ACADEMIC PROGRAMS</b>	
College of Agriculture.....	57
Reginald F. Lewis College of Business .....	136
College of Education .....	175
College of Engineering and Technology .....	216
College of Humanities and Social Sciences.....	285
College of Natural and Health Sciences.....	431
 <b>GENERAL INFORMATION</b> .....	470
 <b>INSTRUCTIONAL FACULTY</b> .....	475

## PRESIDENTS

John Mercer Langston, LL.D.  
1886-1887

William Everett Terry, B.A.  
January-June 1976  
(Interim Chief Administration)

James Hugo Johnston, Ph.D.  
1887-1914

Thomas M. Law, E.D., L.H.D.  
1976-1982

John Manuel Gandy, LL.D.  
1914-1942  
(President Emeritus 1942-1947)

Curtis E. Bryan, Ph.D.  
1982-1983 (Interim)

Luther Hilton Foster, LL.D.  
1942-1949

Wilbert Greenfield, Ph.D.  
1983-1988

James Hugo Johnston, Ph.D.  
1949-1950 (Acting)

Wesley Cornelius McClure, Ed.D.  
1988-1992

Robert Prentiss Daniel, Ph.D., LL.D.  
1950-1968

Nathaniel Pollard, Jr. Ph.D.  
1992-1993 (Acting)

Walker Henry Quarles, Jr., LL.D.  
1968 (Acting)

Eddie Nathaniel Moore, Jr. LL.D.  
1993-2010

James Franklin Tucker, Ph.D.  
1968-1970

Keith T. Miller, Ph.D.  
2010-2014

Walker Henry Quarles, Jr., LL.D.  
1970

Pamela V. Hammond, Ph.D.  
2015 – 2016 (Interim)

Wendell Phillips Russell, Ed.D.  
1970-1974

Makola M. Abdullah, Ph.D.  
2016-Present

Walker Henry Quarles, Jr. LL.D.  
1974-1975

**BOARD OF VISITORS**

- Mr. Harry Black\*, Rector..... Baltimore, Maryland
- Mr. Huron F. Winstead\*, Vice Rector .....Charlotte, North Carolina
- Mrs. Thursa Crittenden, Secretary.....Suffolk, Virginia
- Ms. Pamela Currey.....Richmond, Virginia
- Dr. Daryl C. Dance\* .....Richmond, Virginia
- Mr. Michael D. Fleming .....Alexandria, Virginia
- Mr. Charlie Hill\* .....Hampton, Virginia
- Dr. Alma Hobbs .....Richmond, Virginia
- Mr. Fredrick S. Humphries, Jr. ....Washington, D.C.
- Mrs. Jennifer Hunter.....Richmond, Virginia
- Mr. Paul Koonce.....Richmond, Virginia
- Mr. Xavier Richardson .....Spotsylvania, Virginia
- Mr. Glenn Sessoms.....Memphis, Tennessee
- Mr. James Stegmaier.....Chesterfield, Virginia
- Mr. Wayne Turnage.....Washington, D.C.
- Mr. Gregory Whirley.....Chesterfield, Virginia

*\*Alumnus of The Virginia State University*

## **ADMINISTRATION**

Makola M. Abdullah, Ph.D.  
President

Donald E. Palm, Ph.D.  
Provost/Vice President for Academic Affairs

Kevin W. Davenport  
Vice President for Finance

Hubert Harris  
Vice President for Administration

Letizia Gambrell-Boone, Ph.D.  
Vice President for Student Success and  
Engagement

Reshunda Mahone  
Vice President for Institutional Advancement

Dale Wesson, Ph.D.  
VP for Research and Economic Development

## UNIVERSITY

### HISTORY

Virginia State University was founded on March 6, 1882, when the legislature passed a bill to charter the Virginia Normal and Collegiate Institute. The bill was sponsored by Delegate Alfred W. Harris, a Black attorney whose offices were in Petersburg, but who lived in and represented Dinwiddie County in the General Assembly. A hostile lawsuit delayed opening day for nineteen months, until October 1, 1883. In 1902, the legislature revised the charter act to curtail the collegiate program and to change the name to Virginia Normal and Industrial Institute. In 1920, the land-grant program for Blacks was moved from a private school, Hampton Institute, where it had been since 1872, to Virginia Normal and Industrial Institute. In 1923 the college program was restored, and the name was changed to Virginia State College for Negroes in 1930. The two-year branch in Norfolk was added to the college in 1944; the Norfolk division became a four-year branch in 1956 and gained independence as Norfolk State College in 1969. Meanwhile, the parent school was renamed Virginia State College in 1946. Finally, the legislature passed a law in 1979 to provide the present name, Virginia State University.

In the first academic year, 1883-84, the University had 126 students and seven faculty (all of them Black), one building, 33 acres, a 200-book library, and a \$20,000 budget. By the centennial year of 1982, the University was fully integrated, with a student body of nearly 5,000, a full-time faculty of about 250, a library containing 200,000 books and 360,000 microform and non-print items, a 236-acre campus and 416-acre farm, more than 50 buildings, including 15 dormitories and 16 classroom buildings, and a biennial budget of \$31,000,000, exclusive of capital outlay.

The University is situated in Chesterfield County at Ettrick, on a bluff across the Appomattox River from the city of Petersburg. It is accessible via Interstate Highways 95 and 85, which meet in Petersburg. The University is only two and a half hours away from Washington, D.C. to the north, the Raleigh-Durham- Chapel Hill area to the southwest, and Charlottesville to the northwest.

Virginia State University has a long history of outstanding faculty and administration. The first person to bear the title of President, John Mercer Langston, was one of the best-known blacks of his day. Until 1992, he was the only black ever elected to the United States Congress from Virginia (elected in 1888), and he was the great-uncle of the famed writer Langston Hughes. From 1888 to 1968, four presidents - James H. Johnston, John M. Gandy, Luther H. Foster, Robert P. Daniels - served an average of 20 years, helping the school to overcome adversity and move forward. The next twenty years, 1968-1992, saw six more presidents—James F. Tucker, Wendell P. Russell, Walker H. Quarles, Jr., Thomas M. Law, Wilbert Greenfield, and Wesley Cornelious McClure. On June 1, 1993, Eddie N. Moore, Jr., the former Treasurer of the Commonwealth of Virginia, became the twelfth President of Virginia State University. Dr. Keith T. Miller became Virginia State University's 13th president from 2010 to 2014. In 2015, Dr. Pamela V. Hammond became the first woman to lead Virginia State University in 133 years. She was appointed as interim president on January 1, 2015. She made it a top priority to establish VSU as a catalyst for innovation in higher education. On February 1, 2016,

Dr. Makola M. Abdullah became the 14th President of VSU. Before coming to VSU, Dr. Abdullah served as the Provost and Senior Vice President at Bethune-Cookman University – a private, historically Black University in Daytona Beach, Florida. Dr. Abdullah is committed to: providing a transformative experience for VSU students; strategically investing in academic programs; embracing our position as a top Land Grant University; embracing our role as Virginia's Opportunity University; and partnering together as a University to tell our story.

## **THE MISSION**

Virginia State University, a public, comprehensive 1890 Land Grant institution and historically black college/university, is committed to the preparation of a diverse population of men and women through the advancement of academic programs and services that integrate instruction, research, extension, and outreach. The University endeavors to meet the educational needs of students, graduating lifelong learners who are well equipped to serve their communities as informed citizens, globally competitive leaders, and highly effective, ethical professionals.

## **PRINCIPLES**

1. Regardful of its heritage and its tradition of eminent concern for the education, welfare and progress of all peoples, the university welcomes and extends its resources to all who strive for academic excellence, whatever their nationality, race, ethnicity or religious affiliation.
2. The University seeks to fulfill its mission by enrolling students with a diverse range of talents and abilities, including: (a) students whose pre-college records reveal high academic achievement and talent, (b) students who through a combination of factors have demonstrated the potential to be successful in college, and (c) students whose secondary school records reveal potential but who need special academic enhancement.
3. The University, using available resources, offers programs which that of interest to the students, meet current and changing needs of society, and fall within the scope of its mission.
4. The living/learning community of the University seeks to cultivate a sense of pride and dignity within each individual and promote an enduring search for knowledge among all students, staff, and faculty.
5. Those who matriculate are required to demonstrate a broad understanding of and competency in the arts and sciences and a commitment to intellectual development and scholarship in their fields of study.
6. Graduates of Virginia State University are prepared to enter the work force of the twenty-first century, pursue advanced study, assume leadership roles, and be competitive in a global society.
7. The University assures its constituencies of collegial participation in decision-making.

## ACCREDITATIONS AND AFFILIATIONS

Virginia State University is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award degrees at the associate, baccalaureate, masters, and doctoral levels. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of Virginia State University. Normal inquiries about Virginia State University, such as admission requirements, financial aid, educational programs, etc., should be addressed directly to the institution and not to the Commission's office. The Commission requests that it is to be contacted only if evidence exists that appears to support an institution's significant non-compliance with a requirement or standard.

The Teacher Education Program is fully accredited by the Council for the Accreditation of Educator Preparation and the Virginia Board of Education. It is a member of the American Association of Colleges for Teacher Education as well as the American Council on Education. The Music Program is accredited by the National Association of Schools of Music, and the Visual Communication Art and Design Program is accredited by the National Association of School of Art and Design. The Dietetic Program is accredited by the Commission on Accreditation for Dietetics Education of the American Dietetic Association. The Engineering Technology Program (electronics, mechanical) are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (TAC of ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 - telephone (410) 347-7700.

### **Major affiliation and memberships of the University include:**

American Association for Higher Education  
American Association of Collegiate Registrars and Admissions Officers  
American Association of State Colleges and Universities  
American Association of University Women  
American Home Economics Association  
American Society for Engineering Education  
American Society for Mechanical Engineering  
American Society of Quality  
Association to Advance Collegiate Schools of Business  
Association for Computing Machinery  
Association for Continuing Higher Education  
Association of American Colleges  
Association of Governing Boards of Universities and Colleges  
Association of Institution Research  
Association of International Education  
Association of Physical Plant Administrators of Universities and Colleges  
Association of Virginia Colleges  
Conference of Southern Graduate Schools  
Council for the Advancement and Support of Education  
Council of 1890 Presidents/Chancellors  
Council of Cooperative College Projects  
Council on Hotel Restaurant and Institutional Education  
Council on Social Work Education  
HBCU Summit on Retention  
International Technology Education Association  
Nation Academic Advising Association  
National Association for the Advancement of Colored People  
National Association of African-American Honors Program  
National Association of African American Studies and Affiliates  
National Association of Business Teacher-Education  
National Association of College Admissions Counseling

National Association of College Deans, Registrars and Admissions Officers  
National Association of Mentors in Higher Education  
National Association of Schools of Art and Design  
National Association of Schools of Music  
National Association of State Universities and Land-Grant Colleges  
National Association of Student Affairs Professionals  
National Collegiate Athletic Association  
National Commission for Cooperative Education  
National Collegiate Honors Council  
National Citizens Commission on Alcoholism of the National Council on Alcoholism, Inc.  
National Honor Society  
National Orientation Directors Association  
National Society of Black Engineers  
Oak Ridge Associated Universities  
Society of Manufacturing Engineers  
Southeastern Universities Research Association, Inc.  
Southern Education Foundation  
Southern Regional Educational Board  
Southern Regional Honors Council  
Southern Universities Research Association  
Technology Education Collegiate Association  
Technology Student Association  
The Association to Advance Collegiate Schools of Business  
The Association for General and Liberal Studies  
The Central Intercollegiate Athletic Association  
The College Board  
The Institute of Electrical and Electronics Engineers  
The Society of Automotive Engineers  
The University Center in Virginia  
Virginia Association of College Registrars and Admissions Officers  
Virginia Collegiate Honors Council  
Virginia Social Science Association  
Virginia Technology Education Association

## **THE UNIVERSITY POLICY STATEMENTS**

### **ALCOHOL AND DRUG POLICY**

#### **Philosophy**

Virginia State University, a community of students, faculty, and staff, is committed to preserving a living and learning environment where individuals can safely and successfully complete their college career free from the negative impact and disruptive influence of alcohol and other drugs. Aware of certain risks associated with alcohol and other drug-use, the University community views substance abuse as an obstacle to the attainment of a student's educational goals and to the University's mission. The responsibility to create and maintain a culture less vulnerable to alcohol and other drug use and one that promotes responsible attitudes and lifestyles will be shared by all members of the University community.

The University acknowledges that learning occurs both outside and inside the classroom, making the living and learning environment an integral part of the educational experience of students. While the University values the diversity of ideas, backgrounds, and life experiences that students bring, there also exists the expectation that students will learn to adapt and adopt the high standards of conduct expected at an institution of higher learning. Admission and membership to the University is understood to mean that each person is afforded certain rights and responsibilities. Every effort will be made to protect those rights that are within the University's policy and local, state, and federal laws. The University will not serve as a sanctuary for those who disregard the law.

Recognizing substance abuse as a prevalent social issue, Virginia State University accepts its role and responsibility in helping find solutions to this problem. The University will educate members of the University community about the serious consequences and health risks associated with alcohol and other drug use. The University will help dispel faculty beliefs that suggest alcohol abuse and drug use are acceptable on a college campus.

#### **Policy**

The Virginia State University Alcohol and Drug Policy prohibit the possession, use, manufacture, distribution, selling or consumption of alcohol and illicit drugs anywhere on campus. The Policy pertains to the activities of all students on University property, and the activities of students at University sponsored events or at off-campus activities. While representing the University community students, faculty and staff are expected to comply with all local, state, and federal alcohol and drug related laws.

VSU complies with the Drug Free Schools and Communities Act of 1989 and is a member of the Network of Colleges and Universities Committed to the Elimination of Drug and Alcohol Abuse.

Virginia State University expects staff and academic members of the University community to respond to the use of alcohol and other drugs in a responsible manner that includes but is not limited to:

1. Knowing and abiding by University Alcohol and Drug Policy.
2. Becoming informed about the consequences and risks associated with the use of alcohol and other drugs.
3. Supporting norms that convey the non-use of alcohol and other drugs as a responsible choice.
4. Being alert and responsive to the needs of persons who experience problems due to the irresponsible use of alcohol and other drugs, by helping persons identify and seek appropriate sources for assistance.
5. Integrating alcohol and other drug related information into topics of discussion as deemed appropriate.
6. Following procedures and enforcing sanctions established to hold persons accountable for their actions and encouraging compliance with regulations.

**Virginia Drinking Age Law: Virginia’s Alcohol Beverage Control Act contains laws governing possession, use and consumption of alcoholic beverages. Pertinent laws are summarized below:**

- It is illegal for anyone under age 21 to purchase, possess, or consume any alcoholic beverage.
- It is illegal for any person to sell alcoholic beverages to persons under the age of 21 years.
- It is illegal for any person to purchase or provide alcoholic beverages for another when, at the time of the purchase, he/she knows or has reason to know that the person for whom the alcohol is purchased is under 21 years of age.
- It is illegal for any underage person to use a forged or otherwise deceptive driver’s license to obtain beer or alcoholic beverage.

**Controlled Substances and Illicit Drugs: The unlawful possession, distribution, and use of controlled substances and illicit drugs, as defined by the Virginia Drug Control Act, are prohibited in Virginia.**

**Sanctions for Policy Violations**

Any member of the campus community who violates the University Alcohol and Drug Policy will face appropriate disciplinary action. Students in violation are subject to disciplinary action by the University judicial system or criminal prosecution by federal, state or local authorities or both. Violation of the University Alcohol and Drug Policy by students addressed through the Judicial Affairs System may be subject to but not limited to referral for assessment and/or treatment, community service, probation, suspension or expulsion as well as loss of eligibility for federal financial aid. Complete information about the Judicial System is available in the student handbook.

**Health Risks**

Virginia State University is dedicated to the education of students and employees about health risks associated with the abuse of alcohol and other drugs. Descriptions of some of these health risks are described below. In addition, behavioral difficulties at work, in school, or in relationships and with the law can be linked to the abuse of alcohol and other drugs.

Alcohol, a potentially addictive drug with significant physical and psychological consequence, is a central nervous system depressant that causes a number of marked changes in behavior. Even at relatively low levels, alcohol can impair judgment and decision-making. Low doses can also impair judgment and coordination required to drive a car safely, placing the driver and others at risk of injury. At higher levels, alcohol impairs the functioning of one’s vital organs and can result in coma or death. If combined with other depressants, much lower doses of alcohol can produce the effects just described.

Repeated use of alcohol can lead to dependence. Sudden interruption of alcohol intake can produce withdrawal symptoms, including severe anxiety, tremors, hallucinations, and convulsions. Alcohol withdrawal can be life threatening. Prolonged and excessive use of alcohol, especially when combined with poor nutrition, can cause progressive damage to vital organs. Mothers who drink during pregnancy may give birth to infants with fetal alcohol syndrome. In many cases FAS infants have physical abnormalities and mental retardation.

Marijuana is an illegal drug that impairs memory, perception, judgment and hand-eye coordination skills. The tar content in cannabis is at least 50% higher than that of tobacco and thus smokers run the added risk of lung cancer, chronic bronchitis, and other lung diseases. Recent findings in the medical community suggest that an “A motivational syndrome” affects moderate to chronic users and produces symptoms of loss of energy, motivation, concentration, inability to carry out long-term plans, and decreased performance in school and work. This finding has significant implications for students and institutions of higher learning.

**THE UNIVERSITY  
AMERICANS WITH DISABILITIES  
ACCESSIBILITY POLICY**

**I. Purpose**

The purpose of this policy is to address the commitment of the University to provide reasonable accommodations to applicants for employment, employees, and students under Section 504 of the Rehabilitation Act of 1973, as amended, and the Americans with Disabilities Act of 1990.

**II. Policy**

The Virginia State University Board of Visitors, the administration and the faculty are committed to a policy of equal opportunity in education and employment prohibiting unlawful discrimination on the basis of race, color, creed, religion, marital status, sex, age, disability, political affiliation, or national origin.

The University will provide reasonable accommodations upon request to otherwise qualified disabled individuals who require such accommodations in technical standards of a University academic program or to have an equal opportunity to participate in University programs or activities. Accommodation request related to conditions of employment must be made directly to the Office of Human Resources. All accommodations requests must be written and consistent with the current documented needs of the individual requesting said accommodation(s).

Any student requiring an accommodation must request such services directly from the Office of Student Enhancement and Engagement or the Office of the Provost. In the event a program, class, or activity is located in an inaccessible facility, the University will take such action(s) as necessary to provide reasonable accommodations to ensure accessibility. All accommodation requests must be written and consistent with the current documented needs of the individual requesting said accommodation(s). A disability will be defined according to the parameters of Section 504 of the Rehabilitation Act of 1973, as amended, and the Americans with Disabilities Act of 1990.

Inquiries regarding interpretation or compliance with this policy should be directed to the Office of Human Resources, Virginia State University, P.O. Box 9412, Petersburg, Virginia 23806, (804) 524-5085.

**THE UNIVERSITY**  
**SEXUAL HARASSMENT POLICY**

**I. Purpose**

It is the goal of Virginia State University to provide a productive and challenging educational environment, free from sexual harassment. It is the responsibility of all members of the University community to ensure that individuals are provided equal access to education, employment and services without being subjected to sexual harassment. Sexual harassment is a type of sex discrimination and is prohibited misconduct which undermines the mission of the University.

**II. Definition of Sexual Harassment**

Sexual harassment is defined as unwelcome sexual advances, requests for sexual favors or other conduct of a sexual nature, or action taken in retaliation for reporting such behavior, when:

- A. submission to such conduct is made explicitly or implicitly a term or conditions of an individual employment or participation in a university-sponsored educational program or activity, or;
- B. submission to, or rejection of, such conduct by an individual's employment, academic standing or other benefits, or;
- C. such conduct has the purpose or effect of unreasonably interfering with a person's work or academic performance or creating a hostile and offensive work or learning environment.

Sexual harassment may include, but is not limited to: (1) Sexually suggestive conduct or remarks about clothing, body, or sexual activities directed personally at a member of the University community; (2) whistling in a suggestive manner directed personally at others in the University community; (3) sexual propositions, invitations, or other unwanted pressures for sexual contact; (4) obscene gestures directed personally at other members of the University community; (5) patting, pinching, or any other sexually suggestive touching or feeling; (6) attempted or actual kissing or fondling; (7) coerced sexual acts; (8) assault; and (9) expressed or implied requests for sexual favors as a condition of employment, promotion or favorable academic performance.

**III. Policy**

Virginia State University will not tolerate any conduct by any member of the University community that constitutes sexual harassment as outlined in TITLE VII of Sect. 703 of the Civil Rights Act of 1964, as amended, Title IX of the Education Amendments of 1972, Virginia's Human Rights Act, or other applicable state or federal laws and regulations. Upon notification of a sexual harassment complaint, the University shall take prompt and appropriate action in response to the charge presented by the complainant. Any employee of the University being advised of a complaint of sexual harassment shall immediately refer the matter to the Human Resources Manager (EEO). All complaints under the policy should be filed within 30 days\* from the date of the alleged harassment.

The University shall provide sexual harassment training each academic year for all faculty, administrators and staff. Each employee of the University is responsible for ensuring his/her attendance at such training by affixing his/her signature to the sign-in roster. The Office of Human Resources shall maintain an account of attendance at such training. Students shall be made aware of the University's prohibition on sexual harassment through the Office of the Vice President for Academic and Student Affairs. Informational sessions shall be conducted minimally once, at the beginning of each semester.

This policy shall be distributed throughout the campus community, or made available to all members of the campus community through the Office of Human Resources, the Office of Student Affairs and the Office of the Provost. Additionally, this policy shall be made available by posting on a bulletin board in all dormitories and University buildings.

*\*The University reserves the right to accept and review complaints that are filed later than 30 days from the date of the alleged harassment if, upon preliminary review by the Human Resources Manager (EEO), the President or his designee determines that there is just cause for the delay in reporting the matter, or that it is in the best interest of the University to review the matter.*

## THE UNIVERSITY

### PROHIBITION OF WORKPLACE HARASSMENT

#### I. Purpose

It is the goal of Virginia State University to provide a productive and challenging educational environment, free from any form of harassment. It is the responsibility of all members of the University community to ensure that individuals are provided equal access to education, employment and services without being subjected to any form of harassment. Harassment is a type of discrimination and is prohibited misconduct, which undermines the mission of the University. This revision, which brings the University into compliance with current federal law, addresses workplace harassment, sexual harassment, and the ethical considerations presented by consensual relations between faculty/staff members and students or supervisors and employees.

#### II. Authority, Responsibility and Duties

This policy governs the conduct of all University employees including faculty, administrators, staff, and students when on the campus of Virginia State University or on other University property, or on other University property or in facilities, owned, or controlled by Virginia State University, or being used for a university-related event. Any exceptions in the application or enforcement of these policies must be approved by the President or his designee. The Associate Vice President for Human Resources is responsible for the official interpretation of this policy. Questions regarding the application of this policy should be directed to the Office of Human Resources.

#### III. Definitions

Workplace harassment (hereinafter referred to as harassment) is defined as any unwelcome verbal, written, or physical conduct that is based on race, color, sex, religion, national origin, disability, and/or age, that: (1) has the purpose or effect of creating an intimidating, hostile, or offensive work or academic environment; (2) has the purpose or effect of unreasonably interfering with an individual's work or academic performance; or (3) affects an individual's employment opportunities or compensation. A work or academic environment is "hostile" when unwelcome verbal, non-verbal or physical behavior of a sexual or nonsexual nature is severe and pervasive enough to interfere with the victim's work or academic performance or create a work or academic environment that is intimidating, offensive, or abusive.

Sexual harassment, a form of workplace harassment, is defined as unwelcome sexual advances, requests for sexual favors or other conduct of a sexual nature, or action taken in retaliation for reporting such behavior, when:

- A. submission to such conduct is made explicitly or implicitly a term or condition of an individual's employment, academic status, or participation in a university-sponsored educational program or activity, or;
- B. submission to, or rejection of, such conduct by an individual is used as a basis for decisions affecting that individual's employment, academic standing, or other benefits, or;
- C. such conduct has the purpose or effect of unreasonably interfering with a person's work or academic performance or creating a hostile and offensive work or learning environment.

Sexual harassment may include, but is not limited to: (1) Sexually suggestive conduct or remarks about clothing, body, or sexual activities directed personally at a member of the University community; (2) Whistling in a suggestive manner directed personally at others in the University community; (3) Sexual propositions, invitations, or other unwanted pressures for sexual contact; (4) Obscene gestures directed personally at other members of the University community; (5) Patting, pinching, or any other sexually suggestive touching or feeling; (6) Attempted or actual kissing or fondling; (7) Coerced sexual acts; (8) Assault; (9) unwanted nonsexual conduct or language that pressures for the development or continuation

of a relationship, and (10) Explicit or implicit requests for sexual favors as a condition of employment, e.g., promising or granting continued employment, promotion, training, or favorable evaluation, or academic performance in return for sexual favors.

#### **IV. Policy Statements**

Virginia State University prohibits any conduct by any member of the University community that constitutes harassment as outlined in Title VII of Sect. 703 of the Civil Rights of 1964, as amended, Title IX of the Education Amendments of 1972, Virginia's Human Rights Act, or other applicable state or federal laws and regulations. The University will not tolerate any form of retaliation directed against an employee, student, or faculty/staff member who either complains about harassment or who participates in an investigation.

Through grades, wage increases, recommendations for graduate study, training, promotion, and the like, a faculty member or supervisor can have a decisive influence on a student's, staff members, or faculty member's career at the University and beyond. While harassment most often takes place in situations of a power differential between the persons involved, the University also recognizes that it may occur between persons of the same University status. Harassment may also occur between persons of the same sex. The University will not tolerate behavior between or among members of the University community that creates an unacceptable working or educational environment.

It should be understood by all members of the University community that consensual amorous or sexual relationships (hereinafter referred to as consensual relationships) that occur in the context of educational or employment supervision and evaluation present serious ethical concerns. Consensual relationships violate this policy when a party is involved or positioned to influence directly or indirectly an activity or evaluation that may reward or penalize the other party in the relationship. Faculty/staff members or supervisors involved in consensual relationships must remove themselves from any activity or evaluation that may reward or penalize the student or employee. Consensual relationships between faculty/staff members and students enrolled in their classes or students for whom they have professional responsibility as advisor or supervisor are in violation of this policy and may be a violation of the University's Conflict of Interest Act procedure. Similarly, consensual relationships between supervisors and employees for whom they have supervisory responsibility are in violation of this policy.

Faculty/staff members and supervisors should be aware that conducting consensual relationships with students or employees for whom they have supervisory responsibility makes them liable for formal action. Even when both parties have consented to the development of such a relationship, it is the faculty/staff member or supervisor who, by virtue of his or her special responsibility, will be held accountable for unprofessional behavior. Faculty/staff members and supervisors must be aware that even when they have no direct professional or supervisory responsibility for student or employees, consensual amorous relationships may still be asymmetrical and/or disruptive to the community. Complaints alleging sexual harassment may be filed by either party of the consensual relationship or by an aggrieved party outside the relationship. Complaints alleging harassment may be filed by third parties - individuals who are not University employees, but who have business interactions with University employees (customers, vendors, contractors, and volunteers). Note that control over the employment of an immediate family member is governed by the Virginia Conflict of Interests Act.

#### **V. Policy Violations**

Any employee or faculty member who engages in conduct determined to be harassment or who encourages such conduct by others, will be subject to corrective action which may include discharge from employment. Managers and/or supervisors who allow harassment to continue or fail to take appropriate action upon becoming aware of the conduct will be subject to disciplinary action, including demotion or discharge.

## **VI. Obligations and Responsibilities**

A formal, written complaint is needed from complainants to manage the investigative process effectively. However, federal law requires employers to investigate and resolve complaints as soon as they have knowledge of a problem or in cases where administrators, faculty, and supervisors (hereinafter referred to as supervising management) should have known.

### **A. Administrators, Faculty, and Supervisors**

University supervising management and others performing instructional or academic advising duties have an added responsibility to create and maintain a work and learning environment free from any form of harassment. University supervising management and others performing instructional or academic advising duties have an added responsibility to create and maintain a work and learning environment free from any form of harassment. When a supervising management staff member becomes aware of an incident that might reasonably be construed as constituting harassment, he/she must take prompt and appropriate action to address the charge presented by the complainant. In such cases, such members should immediately refer the matter to the Human Resources Manager (EEO) in order to coordinate any further action that may be necessary.

Supervising management staff members have a legal obligation to act whenever they learn either directly or indirectly about harassment. This obligation exists even if the complainant requests that no action be taken. It is not the responsibility of the complainant to correct the situation.

Supervising management staff members have the legal responsibility to: protect a complainant from continued harassment or retaliation; protect persons accused of harassment from potential damage by false allegations; and take necessary steps to prevent harassment.

Supervising management staff members are responsible for informing their employees and students of this policy.

### **B. Employees, Students, And Those Experiencing Harassment**

Anyone who believes they have been subjected to or observed instances of harassment should take one or more of the following steps:

1. create a detail record of the offending behavior, and any response thereto;
2. ask the perpetrator to cease the offending behavior;
3. seek the help of a supervisor, faculty member, or university administrator; and/or
4. contact the Office of Human Resources.

The complainant is not required to confront or complain to the harassing party. He/she may instead pursue steps 3 and/or 4 above.

### **Procedures**

Upon notification of a harassment complaint, the University shall take prompt and appropriate action in response to the charge presented by the complainant. Informal and formal complaint procedures are described in the University's Procedures Governing the Prohibition of Sexual Harassment, #801. Any employee of the University being advised of a complaint of harassment shall immediately refer the matter to the Human Resources Manager (EEO). All complaints under the policy should be filed within \*30 days from the date of the alleged harassment.

The University shall provide mandatory workplace harassment prevention training for all faculty, administrators and staff as follows:

- Even years – University online training
- Odd years - certified trainer
- New employees - University online training within 30 days of employment

Each employee of the University is responsible for ensuring his/her attendance at such training by affixing his/her signature to the sign-in roster. The Office of Human Resources shall maintain an account of attendance at such training.

Students shall be made aware of the University's prohibition on harassment through the Office of the Provost/Vice President for Academic and Student Affairs. Informational sessions shall be conducted minimally once, at the beginning of each semester.

This policy shall be distributed throughout the campus community, or made available to all members of the campus community through the Office Human Resources and the Office of the Provost/Vice President for Academic and Student Affairs. Additionally, this policy shall be made available by posting on a bulletin board in all dormitories and University buildings.

***\*The University reserves the right to accept and review complaints that are filed later than 30 days from the date of the alleged harassment if, upon preliminary review by the Human Resources Manager (EEO), the President or his designee determines that there is just cause for the delay in reporting the matter, or that it is in the best interest of the University to review the matter.***

## **THE UNIVERSITY**

### **FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT OF 1974**

#### **I. POLICY STATEMENT CONCERNING THE CONFIDENTIALITY OF STUDENT RECORDS**

Students attending, or who have attended, Virginia State University are afforded certain rights concerning their education records the Family Educational Rights and Privacy Act of 1974 (FERPA), as amended (20 U.S.C. 1232g), and regulations of the United States Department of Education (34 C.F.R. Part 99).

It is the policy of Virginia State University not to release education records or personally identifiable information contained therein, other than directory information, without the student's written consent. Such prohibition against release generally does not extend to record requests from other school officials at the University with a legitimate educational or administrative interest, other schools to which a student is transferring, State and Federal education authorities, accrediting organizations, appropriate officials in cases involving health and safety organizations conducting studies on behalf of the University, and education record requests pursuant to judicial orders or lawfully issued subpoenas. Questions concerning this Policy may be referred to the Office of the University Registrar.

#### **Directory information at Virginia State University includes:**

- student's name
- address(es)
- telephone number(s)
- electronic e-mail address(es)
- photographs
- date and place of birth
- major field of study
- whether a student is currently enrolled
- enrollment status (full-time, half-time, etc.)
- class
- academic level
- anticipated date of graduation
- certification that the student has applied for a degree
- dates of attendance
- degree(s) earned, including date and level of distinction
- honors and awards received
- participation in officially recognized activities and sports
- weight and height of members of athletic teams

The University may disclose personally identifiable information designated as directory information from a student's records without a student's prior written consent unless the student informs University officials, including the University Registrar, that specified categories of directory information are not to be released. Requests to withhold directory information from campus directories and other University publications must be submitted to the Registrar's Office no later than 5 p.m. on Friday of the second week of classes for the fall semester.

## II. NOTIFICATION OF RIGHTS UNDER FERPA FOR POSTSECONDARY INSTITUTIONS

FERPA affords students certain rights with respect to their education records. These rights include:

**The right to inspect and review the student's education records within 45 days of the day the University receives a request for access.** Students must submit to the Office of the University Registrar written or electronic requests with their electronic signatures 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 University official to whom the request was submitted does not maintain the records, that official shall advise the student of the correct official to whom the request should be addressed.

**The right to request the amendment of the student's education records that the student believes is inaccurate or misleading.** Students may ask the University to amend a record that they believe is inaccurate or misleading. They should write or send an electronic message with their electronic signatures to the University official responsible for the record, clearly identify the part of the record they want changed, and specify what is inaccurate or misleading. If the University decides not to amend the record as requested by the student, the University will notify the student 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.

**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 that 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, supervisor, 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 Visitors; 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.

**The right to file a complaint with the U.S. Department of Education concerning alleged failures by Virginia State 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, DC 20202 4605

## III. PARENTAL ACCESS TO STUDENT EDUCATION RECORDS

Under FERPA, the word "student" refers to an individual who has reached the age of eighteen or is attending an institution of post-secondary education. The word "parent" means a parent of a student and includes a natural parent, a guardian, or an individual acting as a parent in the absence of a parent or guardian. At the post-secondary or collegiate level, FERPA provides that parents have no inherent rights to inspect a student's education records. Normally the right to inspect education records at the University is limited solely to the student. FERPA does, however, authorize the University to release education records and personally identifiable information to parents, as defined above, where one of the following conditions have been met: (1) the student has given written consent to the release of records to the parents; or (2) the parents produce sufficient documentary evidence that they (or either of them) declared the student as a dependent on their most recent federal income tax return as authorized by the federal income tax laws. See Section 152, Title 26 of the United States Code, for definition of "dependent" for income tax purposes.

## THE UNIVERSITY TRANSFER POLICY

**Transfer Students.** Applicants who have attended an accredited college or university are considered for admission for the Fall and Spring sessions. Applicants must have a cumulative grade point average of "C" (2.0 on a 4.0 scale) or above and be in good standing at the previous institutions. Applicants must (1) complete and return the application for admission, (2) request the Registrar of all colleges attended to send official transcripts of college records, and (3) request the last college attended to complete and return the Confidential Report Form.

A transfer student with fewer than 24 semester hours is required to meet the entrance requirements for freshmen. An applicant transferring from a Virginia Community College or Richard Bland College (RBC), who has completed the requirements for the associate in arts or associate in science degree in the College Parallel/College Transfer Program, will be granted junior status at VSU. An applicant who has not completed the requirements for an associate degree will be designated class standing based on a course-by-course credit evaluation. For these students, the application fee is waived.

Any student who transfers to Virginia State University with an associate's degree (college prep track) from a community college in Virginia or RBC (students with associates' degrees from other states will be designated on a course-by-course credit evaluation) is guaranteed a minimum of 60 credit hours of transfer credit. The student will be given credit for general education requirements, with residual hours coming from major, minor or elective course requirements. Some majors may have more requirements resulting in the need to take additional lower-level courses after transferring to VSU.

Official transcripts will be received and evaluated by the Transfer Admissions Office. Course equivalency will be determined by the departments and reviewed by the University Registrar.

## **THE UNIVERSITY STUDENT ACADEMIC CODE**

A student's conduct at Virginia State University is expected to reflect that of a person engaged in a serious endeavor the pursuit of an academic degree. The Student Academic Code includes aspects of both behavioral and ethical conduct within the academic setting. The Student Code of Conduct contains rules and regulations governing student behavioral conduct and represents a means by which the orderly development of appropriate student conduct is assured. The Student Code of Conduct as it applies to academics is reproduced herein. The Student Academic Code ensures that students maintain the highest ethical standards when in the academic setting, when performing work in the classroom and when completing work outside the classroom.

### **CODE OF CONDUCT**

Students are expected to abide by all University rules and regulations, standards, and by the laws of Chesterfield County, the Commonwealth of Virginia and Federal government. It is not possible to list all acts of misconduct/disorderly conduct that can occur on campus, but students are required to exhibit the highest forms of good manners, behavior and respect for the University community and its inhabitants.

#### ***CLASSROOM CONDUCT***

Inappropriate classroom conduct is a violation of the Student Code of Conduct. Tardiness, talking during lecture, use of cell phones and similar distracting behavior all lead to an environment that is not conducive to learning. Each instructor is responsible for maintaining a classroom environment that facilitates effective teaching, learning and safety. The classroom environment should be such that it prepares students for behavior that is expected in the professional and corporate environments in which they are preparing to live and work.

Disruptive and disrespectful behavior on the part of any student will not be tolerated. The instructor has the right to determine appropriate standards of behavior in the class as long as the requirement does not infringe upon the individual's rights. Appropriate classroom decorum should be described in the course syllabus. Classroom decorum may also be defined and disseminated as a department policy for each discipline or school. Science laboratory classrooms that may introduce a safety hazard to the student under certain circumstances may inherently require strict regulation of safety protocol in addition to normal rules of behavior.

The instructor shall identify students who are in violation of the appropriate decorum or safety procedures and shall provide reasonable warning to the students of the consequences of such conduct. A reasonable warning would include a verbal reminder or a written note handed to the student regarding the expected expulsion from the class or laboratory for the day in question and notice to the student's Department Chair. Return of the student to the classroom or laboratory will require a written pledge by the student to abide by the rules of expected classroom decorum or safety. Continued inappropriate conduct or safety violations will be grounds for expulsion from the course in question for the remainder of the semester. Further action could be taken through channels for charges against students and by enforcement listed in the Student Handbook. Students have the right to dispute any action in accordance with the Student Grievance Procedure.

### **CODE OF ETHICS**

Students are expected to exhibit exemplary ethical behavior as part of the University community and society as a whole. Acts of academic dishonesty including cheating, plagiarism, deliberate falsification and other unethical acts that may be specifically defined by a student's individual discipline are considered breaches of the Student Code of Ethics.

## ACADEMIC DISHONESTY

Academic dishonesty is a violation of the Student Academic Code. By accepting admission to Virginia State University students are automatically subject to the provisions of the Student Academic Code, and are expected to uphold and support this Code without compromise or exception.

### THE STUDENT PLEDGE OF ACADEMIC INTEGRITY

Students are expected to comply with reporting procedures when they notice a violation, and all cases of academic dishonesty shall be reported by the instructor to the chairman of the department in which the incident occurred. The chairman of the department shall report the incident to the chairman of the department for the student in question, if different, and the Dean of the Colleges. Penalties for academic dishonesty may be loss of credit for the work in question, loss of credit for the course, suspension or expulsion from the University. Students have the right to dispute any action in accordance with the Student Grievance Procedure. Ignorance of any aspect of the Student Academic Code is not a defense to an alleged violation.

***Cheating:*** Cheating is obtaining an unearned academic advantage either through deliberate deception or indifference to the student academic code. A student is considered to be cheating if, in the opinion of the person administering an examination or test, the student gives, seeks, or receives aid during the test, examination or other assigned class work.

Cheating also includes, but is not limited to: (1) deliberate alteration of graded material for a re-grade or grade correction; (2) submitting without authorization the same assignment for credit in more than one course; (3) collaborating on any work when not allowed, either in or outside the classroom setting; (4) forging the signature of another or allowing forgery by another for any classroom related document such as class roll or an academic pledge; (5) use of unauthorized material stored or recorded on electronic devices during an exam or quiz; (6) use of crib notes or other unauthorized written material during an exam or quiz; (7) attempting to or allowing impersonation by another in order to take one's exam or quiz; (8) copying, alteration or fabrication of data such as that collected in a teaching laboratory or as part of a research project; and (9) intentionally or knowingly helping or attempting to help another commit an act of academic dishonesty.

***Plagiarism:*** Part of the college experience is the discovery of one's own voice. The Virginia State University teaching community is committed to helping each student find their voice. Plagiarism contradicts this end. Plagiarism is the presentation of others' ideas or written works as one's own. Written works can take the form of electronic or print media and could include - among other items - opinions, facts and statistics.

1. Citing a source is necessary when an idea or written work can be attributed in any way to someone else.
2. Direct copying requires a very specific acknowledgment, either using quotation marks or a clear statement describing how that material was reproduced.
3. An indication of how a source is used is necessary if unique words or phrases from the source are one's work. Words or phrases are considered unique if they would not be spoken or expressed the same way coincidentally. The use of unique language requires incorporation of quotation marks or a direct statement who is responsible for the word, phrase, sentence or group of sentences.
4. Finally, one should always acknowledge the contribution of any person who is a significant contributor to a work through discussion or any other such collaboration. Although, common knowledge does not require a reference, one may not be aware of what constitutes common knowledge. The golden rule is, when in doubt, cite.

## ACADEMIC REGULATIONS AND PROCEDURES

### ADMISSIONS

Virginia State University is committed to admit students who possess a diverse range of talents and abilities. Students who are applying for admission as freshmen are expected to have completed a college-preparatory program in high school and have satisfactory scores on the Scholastic Assessment Test (SAT) or American College Test (ACT) examination. Two letters of recommendation attesting to the students' character and scholastic potential, one of which must be from a high school teacher or guidance counselor and a respectable GPA and/or class rank are required. Students who were not graduated from a secondary school may be admitted on the basis of their GED test scores.

#### Admission Requirements

The admission requirements are as follows:

- Minimum 2.2 GPA on 4.00 scale
- Three (3) units of mathematics (of these three, one must be Algebra I, and the second must be either Geometry or Algebra II)
- Four (4) units of English
- Two (2) units of Science (one of which must be a laboratory science)
- Two (2) units of Social Studies (History, Government, Civics, Geography)
- Two (2) units of Foreign Language are recommended.
- Two (2) letters of recommendation, one of which must be from a guidance counselor, or high school teacher
- SAT or ACT score
- Personal statement

Under exceptional circumstances, a student who does not meet a component of the entrance requirement (e.g., a student's GPA is between 2.0 - 2.19), may be admitted on a "conditional" basis.

#### Special Admissions Requirements:

In addition to regular freshman and transfer admission requirements, students who desire to major in music must also complete an on-campus audition.

**International Students.** Prospective students from abroad should apply for admission at least twelve months prior to the term in which they wish to enroll. Applicants must submit certified copies of official academic records, showing subjects studied, grades received, examinations taken, and degrees earned from secondary schools, colleges, and universities attended. The documents must be submitted in original form as well as official translation. Applicants without previous college or university credit must submit SAT scores of the College Entrance Examination Board, Box 592, Princeton, NJ 08540, USA.

An applicant from a country where English is not the native language is required to demonstrate a proficiency in English by submitting scores on the Test of English as a Foreign Language (TOEFL). Official test scores must be sent directly from the Educational Testing Service. Registration forms and information concerning the time and place of the TOEFL may be obtained by writing to TOEFL, Educational Testing Service, CN 6151, Princeton, NJ 08546-151, USA. An international student must provide documentation verifying resources to meet financial needs for the designated period of study at Virginia State University.

**The International Baccalaureate.** Students must designate the Virginia State University Registrar as a recipient of the scores, and scores must be sent directly from the testing agency. Credit is awarded consistent with state and University policies and the sourcing agencies' guidelines. VSU offers possible credit for scores of 4, 5, 6, or 7 on most higher-level (HL) IB examinations and on select standard-level (SL) examinations in accordance with the pre-approved equivalencies for qualifying IB examination scores. After matriculation, students should direct questions about their IB credit to the College Dean's office in which their major field of study is organized.

**IB Course Credit Equivalencies**

IB COURSE	MINIMUM SCORE	VSU EQUIVALENT	CREDIT HOURS EARNED
Social Anthropology	4 (HL)	SOCI 102	3
	5 (SL)	SOCI 102	3
Art	4 (HL)	ARTS 199	3
	5 (SL)	ARTS 199	3
Biology	5 (HL)	BIOL 120 & 121	8
	4 (SL)	BIOL 120 & 121	8
Business & Management	4 (HL)	COBU 101	3
	5 (SL)	COBU 101	3
Dance	4 (HL)	DANC 100	3
	5 (SL)	DANC 100	3
Design Technology	4 (HL)	TAMM 373	3
	5 (SL)	TAMM 373	3
Environmental Systems and Societies	5 (SL)	AGRI 150	4
Geography	4 (HL)	GEOG 210	3
	5 (SL)	GEOG 210	3
Information Technology in Global Society	4 (HL)	MISY 350	3
	5 (SL)	MISY 350	3
Chemistry	4 (HL)	CHEM 100	4
	5 (HL)	CHEM 151&153	4
	6 (HL)	CHEM 151& 153 + 2 elec cr	6
	5 (SL)	CHEM 100	4
	6 (SL)	CHEM 151&153	4
	7 (SL)	CHEM 151& 153 + 2 elec cr	6
Physics	4-5 (HL)	PHYS 105	4
	6-7 (HL)	PHYS 105 & 106	8
	5-6 (SL)	PHYS 105	4
	7 (SL)	PHYS 105 & 106	8
Computer Science	4 (HL)	CSCI 101 +2 elec cr	3
	5 (SL)	CSCI 101 + 2 elec cr	3
Mathematics	4 (HL)	MATH 120 & 121	6
	5 (SL)	MATH 120 & 121	6
Economics	4 (HL)	ECON 210	3
	5 (SL)	ECON 210	3
Philosophy	4 (HL)	PHIL 140	3
	5 (SL)	PHIL 140	3
Sports, Exercise, and Health Science	5 (SL)	HLTH 210	3

<b>IB COURSE</b>	<b>MINIMUM SCORE</b>	<b>VSU EQUIVALENT</b>	<b>CREDIT HOURS EARNED</b>
World History	4 (HL)	HIST 114 & 115	6
	5 (SL)	HIST 114 & 115	6
Music	4 (HL)	MUSI 199	3
	5 (HL)	MUSI 199	3
Psychology	4 (HL)	PSYC 101	3
	5 (SL)	PSYC 101	3
Theatre Arts	4 (HL)	DRAM 215	3
	5 (SL)	DRAM 215	3
English (Language & Literature)	4 (HL)	ENGL 110	3
	5 (SL)	ENGL 110	3
English Literature	4 (HL)	ENGL 201	3
	5 (SL)	ENGL 201	3
English (Literature & Performance)	5 (SL)	3 elective credits	3
French	4 (HL)	FREN 212	3
	5 (HL)	FREN 310	3
	6-7 (HL)	FREN 314	3
	5 (SL)	FREN 212	3
	6 (SL)	FREN 310	3
	7 (SL)	FREN 314	3
German	4 (HL)	GERM 212	3
	5 (HL)	GERM 310	3
	6-7 (HL)	GERM 314	3
	5 (SL)	GERM 212	3
	6 (SL)	GERM 310	3
	7 (SL)	GERM 314	3
Spanish	4 (HL)	SPAN 212	3
	5 (HL)	SPAN 310	3
	6-7 (HL)	SPAN 314	3
	5 (SL)	SPAN 212	3
	6 (SL)	SPAN 310	3
	7 (SL)	SPAN 314	3

**Advanced Placement Credit.** VSU awards advanced standing credit (course exemption and academic credit hours) to entering students who have qualifying scores on the AP tests. Students may receive credit in any academic discipline in which an AP test is offered so long as they take the test before the end of their senior year of high school. After matriculation, students should direct questions about their AP credit to the College Dean's office under which their major field of study is organized.

**AP Course Credit Equivalencies**

AP COURSE (minimum score)	VSU CLASS EQUIVALENT	GENERAL EDUCATION CREDIT HOURS EARNED
Art: 3	ARTS 301	3
4, 5	ARTS 301+302	6
Biology: 3	BIOL 120	4
Calculus AB: 3	MATH 120	3
4, 5	MATH 260	4
Calculus BC: 3, 4	MATH 260	4
5	MATH 260 + 261	8
Chemistry: 3	CHEM 100	4
4	CHEM 151 + 153	4
5	CHEM 151/153 +2 elec cr	6
Computer Science A: 3	CSCI 150 + 151	4
Computer Science Principles: 3	CSCI 101 + 2 elec cr	3
MicroEconomics: 3	ECON 210	3
MacroEconomics: 3	ECON 211	3
English Language & Composition: 3, 4	ENGL 110	3
5	ENGL 110 + 111	6
English Literature and Composition: 3, 4	ENGL 110	3
5	ENGL 110 + 201	6
Environmental Science: 3, 4	AGRI 150	4
5	AGRI 150 + 2 elec cr	6
French: 3	FREN 210	3
4	FREN 310	3
5	FREN 314	3
German: 3	GERM 210	3
4	GERM 310	3
5	GERM 314	3
Human Geography: 3	GEOG 316	3
Music Theory: 3	MUSI 154	3
4, 5	MUSI 181 + 183	4
Physics 1: 3	PHYS 105	4
Physics 2: 3	PHYS 106	4
Physics C E&M: 3, 4	PHYS 112	4
5	PHYS 113	4
Physics C Mech: 3	PHYS 105	4
Psychology 3	PSYC 101	3
Spanish Language & Culture: 3	SPAN 212	3
4	SPAN 310	3
5	SPAN 314	3

AP COURSE (minimum score)	VSU CLASS EQUIVALENT	GENERAL EDUCATION CREDIT HOURS EARNED
Spanish Literature & Culture: 3	SPAN 212	3
4	SPAN 300	3
5	SPAN 301	3
Statistics: 3	STAT 210	3
Studio Art 2D: 3	ARTS 199	3
Studio Art 3D: 3	ARTS 199	3
Studio Art Drawing: 3	ARTS 199	3
U S Government 3	POLI 150	3
U S History: 3	HIST 122 + 123	6
World History: 3	HIST 114 + 115	6

**Cambridge International Examinations Credit.** The University may grant credit for Cambridge International Examinations (CIE) levels Advanced (A) and Advanced Subsidiary (AS) offered through the University of Cambridge in England. These courses and examinations are administered through registered CIE Centers in public high schools throughout the United States. A-level syllabuses and exams cover approximately two years of college-level curriculum in a subject and the AS level syllabus and exam covers the first year of the two-year A-level curriculum. Cambridge tests passed with final grades of A, B or C will be considered for advanced standing and credit for the corresponding courses at VSU. The applicability of such credit toward the student's degree program is interpreted by the department or college in which the student seeks a degree.

### Cambridge Exam Equivalencies

CAMBRIDGE EXAM	A-LEVEL VSU EQUIVALENT (Minimum Grade)	AS-LEVEL VSU EQUIVALENT (Minimum Grade)	ACADEMIC CREDIT
Accounting	C : ACCT 200	C: ACCT 200	3
Art and Design	C: ARTS 199	C: ARTS 199	3
Biology	C: BIOL 120	C: BIOL 120	4
Business	C: COBU 101	C: COBU 101	3
Chemistry	C: CHEM 100	C: CHEM 100	4
	B: CHEM 151+153	B: CHEM 151+153	4
	A: CHEM 151+153+ 2 cr	A: CHEM 151+153+ 2 cr	6
Computer Science	C: CSCI 101 + 2cr	C: CSCI 101 + 2cr	3
Computing	C: COBU 155	C: COBU 155	3
Design Technology	C: TAMM 373	C: TAMM 373	3
Design & Textiles	C: TAMM 373	C: TAMM 373	3
Economics	C: ECON 210	C: ECON 210	3
English Lang & Lit	*	C: ENGL 110	3
English Language	C: ENGL 110	C: ENGL 110	3
English Literature	C: ENGL 210	C: ENGL 210	3

CAMBRIDGE EXAM	A-LEVEL VSU EQUIVALENT (Minimum Grade)	AS-LEVEL VSU EQUIVALENT (Minimum Grade)	ACADEMIC CREDIT
French	C: FREN 210 B: FREN 310 A: FREN 314	C: FREN 210 B: FREN 310 A: FREN 314	3 3 3
Geography	C: GEOG 210	C: GEOG 210	3
German	C: GERM 210 B: GERM 310 A: GERM 314	C: GERM 210 B: GERM 310 A: GERM 314	3 3 3
History	C: HIST 115	C: HIST 115	3
Information Technology	C: CSCI 100	C: CSCI 100	3
Mathematics	C: MATH 260	C: MATH 260	4
Mathematics Further	C: MATH 261	C: MATH 261	4
Music	C: 3 cr	C: 3 cr	3
Physical Education	C: PHED 274	C: PHED 274	3
Physical Science	C: PHYS 100	C: PHYS 100	4
Physics	C: PHYS 105 A: PHYS 105 + 106	C: PHYS 105 A: PHYS 105 + 106	4 8
Psychology	C: PSYC 101	C: PSYC 101	3
Sociology	C: SOCI 101	C: SOCI 101	3
Spanish	C: SPAN 210 B: SPAN 310 A: SPAN 314	C: SPAN 210 B: SPAN 310 A: SPAN 314	3 3 3
Thinking Skills	C: PHIL 180	C: PHIL 180	3
Travel and Tourism	C: HMGD 200	C: HMGD 200	3

*\* A-Level Exam not available for this Subject*

**Non-Traditional Studies.** Adult students may be admitted to the Bachelor of Individualized Studies (BIS) degree program. Program requirements for earning college credit can be met by examination and work and life experiences.

**Readmission.** Students who interrupt their enrollment for two or more semesters (one or more years) must apply through the Office of Admissions for readmission to the University. Readmission is to the department in which the student was enrolled at the time of separation. A change of major request must be made after readmission.

**Senior Citizens.** There is no limit to the number of semesters in which senior citizens may enroll who are not enrolled for academic credit. However, individuals are limited to three non-credit courses each semester. Eligible senior citizens enrolled for credit may enroll as full-time students, limited only by their academic performance as to the number of credits pursued or enrolled semesters. Senior citizens are defined as persons who, before enrollment, (1) have reached sixty years of age and (2) have had their legal domicile in Virginia for one year. Further details of the program are available from the College of Graduate Studies, Research and Outreach, 20716 Fourth Avenue, Virginia State University.

**Advisement.** Upon admission to the University, students will be assigned an academic advisor from the Academic Center of Excellence (ACE). Students who have not declared a major will also be advised through ACE. Non-traditional students will be advised through the office of Outreach.

## Academic Honors

**Honors List.** Undergraduate students earning twelve or more semester hours with a grade-point average of at least 3.0 shall be named to the Honors List.

**Honors with Distinction List.** Undergraduate students earning twelve or more semester hours with a grade -point average of 4.0 shall be named to the Honor's List with Distinction.

**Graduating Honors.** Candidates for a baccalaureate degree who have completed at least 51 percent of the credits required for their degree program at Virginia State University will qualify for honors at graduation based upon their final cumulative grade point average as listed below:

Summa Cum Laude	3.80-4.00
Magna Cum Laude	3.50-3.79
Cum Laude	3.00-3.49

Candidates for baccalaureate degrees who have earned forty or more hours but less than 51 percent of the credits required for their degree program at Virginia State University are recognized for academic achievement against the following standard:

With Distinction	3.20 or higher
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**Top Ranking Graduates.** Recognition will be given to the two students with the highest cumulative grade point average in each of the following categories:

1. the student who entered Virginia State University as a first-time freshman, and who has completed at least 95 percent of his/her overall credits at Virginia State University, or
2. the student who entered Virginia State University as a transfer student, and who has completed at least 51 percent of the credits required in his/her degree programs at Virginia State University.

### ***STUDENT MUST MAINTAIN EITHER THE SEMESTER OR CUMULATIVE GPA, AS SPECIFIED***

Completed Semesters	Semester GPA		Cumulative GPA
1	2.0		2.0
2	2.0		2.0
3+	2.0	OR	2.0

### **Attendance. (See Classroom Attendance)**

**Academic Honesty.** Intellectual and scholastic freedoms are safeguarded through application of principles of academic honesty. Violations of academic honesty represent a serious breach of the Virginia State University honor code and may be considered grounds for disciplinary action.

Academic dishonesty is defined to include (a) plagiarism-presentation of the written words of others as if they were one's own; (b) cheating, giving, aiding, or seeking assistance during the process of taking a test or examination. Penalties for academic dishonesty may be loss of credit for the work in question, loss of credit for the course, suspension or expulsion from the University.

**Advanced Scholars Program.** This program is designed for academically qualified high school seniors, within the University service area who would like to earn college credits while still in high school. To be admitted into the program, a student must have completed the junior year of high school and have a

cumulative average of at least a "B" (3.0) and have submitted an admissions application, high school transcript, and a letter of recommendation from a high school counselor. A student may enroll in courses at Virginia State during the summer between the junior and senior years and/or during the senior year. A maximum of six semester hours may be pursued each session.

**Baccalaureate Degree.** To receive a Bachelor's degree from Virginia State University, a student must do the following:

1. Have a minimum of 120 semester hours of credit with 25% being earned at Virginia State University.
2. Have a cumulative grade point average of 2.00 or better.
3. Complete the General Education (Core) requirements.
4. Meet all of the major requirements of the curriculum leading to the degree for which he/she is a candidate.
5. Have spent his/her last year (last 27 semester hours) in resident study for the degree at Virginia State University.

A student who already possesses a baccalaureate degree and seeks to earn a **second baccalaureate degree** must submit an application for admission to the desired program. The student's transcript will be evaluated by the chairperson to determine advanced standing. The student must complete all courses prescribed by the **second degree** program. General education courses already taken need not be repeated. All academic regulations shall be in full force including residency.

**Certificate Program.** A prescribed set or sequence of courses that results in a student receiving a certificate issued by the University when the identified courses and experiences are completed satisfactorily and when all other conditions have been met in accordance with the definitions and policies of the specific program.

**Change of Major.** Forms for change of major, available in the Registrar's Office and on the VSU website, must be completed and returned to the Registrar's Office after approval of the chairperson of the new major.

**Classification of Students.** Full-time and part-time students are classified by credit hours earned as follows:

Freshman	1-29	credit hours
Sophomore	30-59	credit hours
Junior	60-89	credit hours
Senior	90 or more	credit hours

A full-time student is one pursuing a minimum of 12 semester hours during a semester. A part-time student is one pursuing fewer than 12 hours during a semester.

**Classroom Attendance.** Classroom attendance is expected of all students. The instructor may reduce grades for students who exceed four hours of absences for a four-semester-hour course, three hours of absences for a three semester- hour course, two hours of absences for a two-hour course, and/or one-hour for a one-hour course. Faculty members must include on the course syllabus any attendance policy that will affect grades, including tardiness and early departures.

Commencement. (See Graduation Procedures)

**Concentration.** A prescribed set of courses associated with a major that is designed to focus a student's course of study according to interest and/or career goals. A concentration is not a required component of all majors and/or minors. The student must formally declare the concentration for it to appear on the transcript of record. The concentration will be noted on the transcript only after the student graduates.

**Concurrent Enrollment.** A matriculating student at Virginia State University who desires to take courses at another institution for transfer credit must obtain the prior approval of the department chairperson and college dean. Concurrent Registration forms may be obtained from the Registrar's Office or on the VSU website. Credits generated from courses in which the student earns a grade of C or better must be submitted, by official transcript only, to the University Registrar.

**Continuing Education Student.** A continuing education student is one allowed to enroll in classes under the auspices of Continuing Education and is not pursuing a degree. Upon earning thirty hours, the Continuing Education student must declare the intention to continue in that status indefinitely or make formal application to a degree program. Such a student is subject to lose some or all of his thirty or more hours as applicable units toward a degree at the discretion of the Department Chairperson if not admitted to a degree program at this point. A Continuing Education student may not enroll for more than 11 semester hours per semester.

**Course Load.** During a regular semester of the academic year, a full-time course load for undergraduates is generally 15 semester hours. However, the maximum course load is 18 semester hours which includes all academic credits. Exceptions (overloads) must be approved by the Department Chairperson, and the Dean. During a summer **session of four and a half weeks**, the maximum course load is six semester hours.

**Course Numbering System.** All course numbers consist of three digits (XXX). The first digit relates to the course level as follows: (a) 1xx--freshman, (b) 2xx--sophomore, (c) 3xx--junior, (d) 4xx--senior.

**Course Waivers and Substitutions.** The decision to waive a course shall be made by the chairperson of the Department and approved by the Dean of the College in which the student is enrolled. The decision to substitute a course shall be made by the chairperson of the department in which the student is enrolled, and approved by the dean of that college and the deans of the college(s) in which the courses in question are offered. Waivers and substitutions policy will not be applicable to courses in which the student has received a failing grade. If the student is dissatisfied with a decision, he may appeal to the Academic Credits Committee.

**Credit hour** is assumed to be a 50-minute period as described by Southern Association of Colleges and Schools (SACS). That definition states that a credit hour is “an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally established equivalency that reasonably approximates:

1. Not less than one hour of classroom or direct faculty instruction and a minimum of two hours out of class student work each week for approximately fifteen weeks for one semester or trimester hour of credit, or ten to twelve weeks for one quarter hour of credit, or the equivalent amount of work over a different amount of time, or
2. At least an equivalent amount of work as required outlined in item 1 above for other academic activities as established by the institution including laboratory work, internships, practica, studio work, and other academic work leading to the award of credit hours.”

A credit hour is assumed to be a 50-minute period. In courses, such as those offered via distance education or online, in which it is difficult to apply the seat time standard, a credit hour may be measured by demonstrating evidence of achievement, represented in intended learning outcomes, that is equal to an amount of work that is equivalent to experiencing one hour of class attendance or faculty instruction per week, for 15 weeks, etc.

**Credit by Examination.** (Also see Proficiency Examinations) Credit by CLEP (College Level Examination Program) must be submitted upon admission to Virginia State University. Letter grades will not be recorded for credit received by CLEP. The number of credit hours a student may receive by CLEP examination will not exceed twelve semester hours. The same requirements established by the American Council on Education (ACE) will be used for awarding credit.

Credit by examination may be available in areas not covered by CLEP and is coordinated by the individual department. In those instances, no more than twelve hours may be awarded. The request should be initiated within the department during the first eight weeks of the semester. The student may not petition credit by examination for courses in which he or she has been enrolled. Students will receive credit for grades of A, B, and C, earned on the examination. The grade will be recorded on the student's permanent record. The cost for the departmentally-administered examination will be one-half of the regular fee per semester hour.

**Degree.** Symbols and classifications of undergraduate degrees conferred by VSU are:

BA	Bachelor of Arts
BS	Bachelor of Science
BFA	Bachelor of Fine Arts
BM	Bachelor of Music
BIS	Bachelor of Individualized Studies
BSW	Bachelor of Social Work

**Examinations.** Mid-term examinations are optional but recommended to ensure an informed midterm report on student progress. Final examinations are required and should be taken as scheduled. Students enrolled in teacher education programs are required to take Praxis I and II and other relevant professional exams at the appropriate time.

**Financial Aid.** Information about financial aid is available from the Office of Financial Aid (see Directory).

**Foreign Language Requirement.** In programs where a foreign language is required, modifications are made based on high school foreign language credits. For placement purposes, a year of high school credit is equivalent to one semester of university credit in the same language. For specific requirements see the curriculum sheet for the appropriate department.

**Grades.** The approved grade symbols and grade symbol definitions are as follows:

Grade	Definition	Quality Points
A	Excellent	4
B	Good	3
C	Average	2
D	Below Average	1
F	Failure	0

The following grades are also used and have no quality point value, thereby being neutral in grade point average determination.

I	Incomplete grade—a student, otherwise passing, has for good reason failed to complete course requirements; must be removed within one year or be turned to an F (undergraduate only)
P	Satisfactory completion—at graduate level, successful completion of Research and Thesis
S	Satisfactory completion of certain experiences at the undergraduate level. At the graduate level, it indicates satisfactory progress in Research and Thesis.
U	Unsatisfactory performance—student has not earned credit hours for which she/he has enrolled
W	Withdrawn
R	No credit given—administrative indication; awarded to Special Services students
AU/Z	Course Audit
N	Non-attendance
O	Omitted Grade—administrative indication

**Grade-point Average (GPA).** The GPA is determined by dividing total quality points (QPTS) earned by total quality hours (QHRS) attempted for grades of A, B, C, D and F. The highest grade in courses which have been repeated is used (see Repeat Grade).

**Grade Review Procedure.** Requests to make any change in the grade assigned originally shall be made only in unusual circumstances. Such changes threaten the integrity of the academic process. The instructor is expected, therefore, to review course requirements and calculations carefully before submitting final grades. The appeal procedure for a student with a complaint about grading requires contact with the instructor involved, and further contact with the instructor's department chairperson if the matter is not resolved between the instructor and student.

If the matter is not resolved at the departmental level, contact should be made with the dean of the college in which the instructor teaches. If the situation is not resolved at the dean's level, the student should submit a written request, containing the signatures of the chairperson and dean, to the Academic Credits Committee.

**Grade Reports.** Midterm and final grade reports are viewed by the student via the Web for Student Module, which is accessed on the Virginia State University website.

**Graduation Procedures. For graduation, a student should:**

1. File an Application for Graduation by the deadline published in the official Academic Year Calendar.
2. Pay the appropriate Graduation Fee at the same time the application is filed.
3. Complete degree requirements, which include the removal of I grades; the earning of an overall grade point average of 2.0, and the appropriate grade point average in major course-work. Degree requirements must be completed by such time to be certified by the University before the anticipated degree is approved for conferral.
4. Satisfy all outstanding financial obligations to the University by the specified date.
5. Attend the ceremony. The Registrar should be notified if one is unable to attend, and the degree will be mailed to the recipient.

**Immunizations.** Virginia State University requires physical examinations for all first-time enrollees (freshmen, transfer and graduate students) to provide a health history and immunization record to the Student Health Service prior to registration for classes. Any student who cannot produce an up-to-date immunization record must be re-immunized at his/her expense. Registration cannot be completed until an up-to-date immunization record is provided.

**Laboratory Enrollment.** Concurrent enrollment in lecture and laboratory science courses is required for first-time enrollees.

**Last 27 Credits.** A candidate for the bachelor's degree must spend the last year in resident study for the degree at Virginia State University. A year's residence is interpreted to mean the accumulation of a minimum of twenty-seven hours of upper-level courses in (1) two regular semesters, or (2) three regular summer sessions, or (3) one academic semester and one summer of nine weeks. Subject to the discretion of the chairman of department, the student may be required to take in residence a maximum of fifty percent of the credit hours required in his major sequence. This may in no case be less than twenty-if percent. Transfer students must spend a year in residence before graduation. A transfer student from a junior or community college must complete a minimum of 60 semester hours at Virginia State University to qualify for candidacy for a degree.

**Major.** A coherent set of required and elective courses approved by the Board of Visitors and meeting state criteria that, when completed by a student, signifies a degree of preparation in a field or fields of study. The credit hour requirements for the major are set by the respective colleges and academic units and may not consist of less than 30 hours. A student must formally declare a major.

**Minor.** A cohesive set of required and elective courses that, when completed by a student, connotes knowledge and skills in a discipline, region or topic area, but not at the depth of a major. The minor is designed for students who are not majoring in the same area and requires minimum credit hours as set by the respective academic department or college. A student must formally declare the minor for it to appear on the transcript of record. A minor is not required for graduation. A minor must have at least 15 semester hours as set by the department. Minor request forms are available in the Registrar's Office. Approved minor areas and minimum hours of study required are: Accounting (18), Africana Studies (18), Art and Commercial Art and Design (18), Art History (18), Information Systems (18), Computer Science (18), Cyber Security and Forensics (18), Dance (18), English (18), Finance (18), French (18), German (18), Hospitality Management (19), Mechanical Engineering Technology (18), Management (18), Marketing (18), Mass Communications (18), Mathematics (18), Military Science (15), Music (18), Philosophy (18), Political Science (18), Social Work (18), Spanish (18), Studio Art (18), and Writing (18). See academic programs for requirements of Elementary Education, Special Education, and Secondary Education.

**Registration.** Registration and schedule adjustment are conducted in accordance with the schedule and procedure set forth in the Registration and Scheduling Bulletin issued each semester. Students are required to follow these procedures and guidelines to be assured of proper registration. Students are to register for sequence and number of credit hours required within the curriculum for each semester. The number of semester hours for students on academic sanction will be fifteen (15) hours and for students with honor roll status the number of semester hours may be increased by three (3) hours. Currently enrolled students are required to register in October for the upcoming spring semester and in April for the upcoming fall semester.

**A. Registration and Validation Period.** During this time, students can make course adjustments and pay fees to become validated. A student who is validated has made all payments owed to the university or has made arrangements for payment.

**B. Transcripts.** Upon written request, a transcript of a student's record will be issued within five business days.

**Transfer Credits.** Credit hours accepted and displayed on the student's transcript will be for those courses in which the student has earned the grade A, B, C, P, or S; except for students with associate degrees (college prep track), where credit hours will be accepted and displayed for all grades (A, B, C, D, P, and S). However, certain courses in some major programs may require a grade of C or better. When a student who pursues one of these majors transfers D grade course credit that is equated to a Virginia State course requiring a grade of C or better, the student will have to repeat the course to satisfy the major program requirements. See University Transfer Guide for more information on transfer credit.

**Repeat Grade.** When a course is repeated, the first attempt is excluded from the student's grade point average. The subsequent attempt will replace the original grade. The repeat course must be the same course as originally attempted.

## **POLICY EXCEPTIONS AND APPEALS**

The following are the policies and procedures for addressing/requesting exceptions to, or appeals of, academic policies and/or sanctions. The policies and procedures are administered by the University's Academic Credits Committee.

### **I. PURPOSE AND DUTIES**

#### **Purpose**

The purpose of the Academic Credits Committee (ACC) is to deliberate requests for exceptions to academic policies in the areas of readmission to the University after suspension for poor academic performance, residency requirements and proficiency examinations, and other areas not assigned to the colleges. This committee serves as the final arbiter for these issues, and its policies and procedures are applicable to undergraduate students and programs.

#### **Duties**

ACC is charged with the following duties and responsibilities:

- A. Providing adjudication and disposition on student appeals of academic sanctions and other academic matters, including (but not limited to) the following:
  - Administrative withdrawal
  - Residency requirements and proficiency examinations
  - Readmission after academic sanction
- B. Monitoring and making recommendations to the Provost/Vice President for Academic Affairs (VPAA) relative to academic policy and procedure.

### **II. COMPOSITION**

ACC is a group organized under the auspices of Office of the Provost/VPAA. The committee is convened and facilitated by the Provost or his/her designee(s). The following positions comprise the committee membership:

- Provost (or designee), who will serve as chair
- Recorder (non-voting member designated by the Provost)
- Registrar (or designee)
- Vice President for Student Affairs (or designee)
- Deans of the Colleges (or their designees)
- Four Faculty Representatives (Chair of the Faculty Senate [or designee], Chair of the Admission and Retention Subcommittee of the Faculty Senate and two faculty members at large designated by the Faculty Senate)
- Director of Student Financial Aid

### **III. MEETINGS**

ACC meetings are held at least twice during each fall and spring semester. Meeting are generally scheduled prior to the opening and closing of each semester. All meetings are scheduled by the Provost/VPAA (or his/her designee), who communicates with the Deans of the Colleges to establish due dates for written appeals from students. A calendar of meeting dates shall be published. In addition, the ACC shall meet at least once each academic year to address policy matters and concerns relevant to the committee's work. Minutes of all meetings shall be housed in the Office of the Vice President for Academic Affairs.

#### IV. DISPOSITIONS

ACC renders dispositions based upon students' appeals for exceptions to established University policy. Each appeal is considered on the basis of its individual merit, and exceptions are granted only if documentation clearly demonstrates at least one the following:

1. Sanctions or other negative decisions based on incorrect or missing information;
2. Extraordinary circumstances beyond the student's control; or
3. Situations where there is malfeasance on the part of the University.

The dispositions of ACC are the final recourse for students, i.e., students may not appeal to any other authority at the University. However, ACC decisions may be reviewed by the Provost who has the authority to reconvene ACC if additional information relative to a particular case becomes available after a disposition is rendered. ACC decisions are communicated to students via letter from the Office of the Provost with copies to the student's dean and department chairperson as well as the Office of the Registrar.

Minutes of the proceedings of the ACC are completed by the committee's recorder; hard copies are maintained in the Office of the Provost in accordance with the University's record retention policy. A summary of dispositions of the ACC shall be submitted annually to the Provost/Vice President for Academic Affairs.

Members of the ACC must recuse themselves from deliberation on any case in which they have direct or indirect involvement, including familial relationship, personal ties to the appellant, or any other connection which might pose a conflict of interest.

#### V. ACTION ITEMS

**Administrative Withdrawal:** Administrative withdrawal (grade of "W" for all courses in a semester) is warranted based upon irrefutable documentation relative to attendance or other extreme circumstances (e.g., military deployment, medical emergencies, etc.).

**Residency Requirements:** The following is the University policy on residency:

A candidate for the bachelor's degree must spend the last year in resident study for the degree at Virginia State University. A year's residence is interpreted to mean the accumulation of a minimum of 27 hours of upper-level courses in (1) two regular semesters, or (2) three regular summer sessions, or (3) one academic semester and one summer of nine weeks. Subject to the discretion of the chair of the department, the student may be required to take in residence a maximum of fifty percent of the credit hours required in his or her major sequence. This may in no case be less than twenty-five percent.

Transfer students must spend a year in residence before graduation. A transfer student from a junior or community college must complete a minimum of 60 semester hours at Virginia State University to qualify for candidacy for a degree.

Students may apply for exceptions to this policy in cases of extreme circumstances over which they have no control. ACC will consider each request on the basis of individual merit and documentation.

**Proficiency Examinations:** At the end of each semester, each academic dean shall submit to the ACC a summary report on proficiency examinations administered by each department. Only if circumstances warrant further deliberation will appeal matters regarding requests for a proficiency examination be referred to the ACC. Proficiency examinations must be requested by the end of the eighth week of the semester.

## ACADEMIC SANCTIONS

**The following guidelines provide the minimum academic standards of the University and required maintenance of grade point averages for a student to avoid academic sanctions.**

1. A new student (first time in college freshmen or transfer student without an Associate Degree) must earn a cumulative grade point average (GPA) of 2.0.

Transfer students with the Associate Degree must maintain a 2.0 semester GPA each regular semester (to avoid Academic Warning) or have a cumulative GPA of 2.0 (to avoid Probation or Suspension)

2. **Academic Warning** will occur when a student's cumulative GPA falls below the required 2.0 minimum. A student on Academic Warning will have a hold placed on their registration account until he or she has met with an academic advisor and developed an academic plan of study to improve their GPA.
3. **Academic Probation** occurs when a continuing student, who has been previously placed on Academic Warning fails to achieve the minimum required semester and cumulative GPA for two consecutive semesters. A student on Academic Probation will have a hold placed on their registration account until he or she has met with an academic advisor and developed an academic plan of study to improve their GPA.
4. **Academic Suspension** for poor academic performance will occur when a student, who has been previously placed on Academic Probation fails to achieve the minimum required cumulative GPA for two consecutive semesters.
5. **Readmission** of a student to the University will only occur under the following circumstances:
  - A. A student who returns to the University, after being placed on Academic Suspension, having earned an Associate Degree (college-prep track) will be readmitted under the same terms and conditions as a transfer student.
  - B. Under exceptional circumstances (such as serious and documented health or financial difficulties), a student may appeal his/her suspension to the department chair and school dean who may then, in turn, recommend readmission to the Academic Credits Committee. **Such an appeal can only be considered by the ACC after the student has been out for the period of one academic year.** The student must present a letter from at least one faculty member in support of his or her appeal. If the appeal is successful, the student will be readmitted on "Academic Warning."
6. If a student voluntarily withdraws from the university for a semester (for any reason), that student will return on the same status with which he/she left. (That is, if the student left on "Academic Warning," he/she will return on "Academic Warning;" if he/she left on "Academic Probation," he/she will return on "Academic Probation.")

Each request for readmission is evaluated by ACC. The appellant must demonstrate that he/she is prepared to succeed academically via written recommendation from the appellant's dean and department chairperson and documentation of academic pursuits/activities (e.g., college course work successfully completed at other accredited institutions, college-equivalency experiences, relevant internships, military service, etc., as applicable).

- If the request for readmission is approved, ACC may make stipulations with regard to maximum number of credit-hours in which the applicant may enroll, change of major, required cumulative or term grade point average, among others as deemed appropriate to the student's academic progress during previous enrollment and work completed during the period of suspension.
- If the request for readmission is denied, ACC will inform the applicant in writing as to what the student can do to reapply in the future, or the application may be denied and permanent expulsion imposed.

### **Grade Appeal Procedure**

College Grade Appeal Committees consisting of at least three (3) faculty members from various departments shall deliberate requests for grade appeals and recommend an action to the college dean. The dean shall review the recommendation and make a decision on the outcome of the appeal. The dean shall serve as the final arbiter on the matter. At the end of each semester, the dean shall submit to the Academic Credits Committee a summary report of the dispositions of grade appeals handled at the college level. Only if circumstances warrant further deliberation should a grade appeal be referred to the ACC.

The appeal procedure for a student with a complaint about grading requires initial contact with the instructor involved and further contact with the instructor's department chairperson if the matter is not resolved between the instructor and student. If the matter is not resolved at the departmental level, a grade appeal should be submitted to the dean of the college in which the instructor teaches. The dean shall then forward the request to the grade appeal committee for deliberation.

Normally, students may appeal final grades based upon documented evidence that a grade was incorrectly awarded. Typically, grade changes are warranted based upon the following:

- The Professor did not have information or documentation at the time the grade was awarded;
- The Professor made an error of calculation or other error or entry of a grade;
- A grade of "I" (incomplete) was entered and the student completed the necessary work for the course.

The student will follow the steps below:

1. Make his/her case (with documentation) to the faculty member who awarded the grade. If the faculty member is no longer employed by the University, the student may approach the Department Chairperson for the unit through which the course was offered.
2. If the student is not satisfied with the disposition of the faculty member, he/she may repeat this process with the Department Chairperson.
3. If the student remains dissatisfied, he/she may appeal to the college grade appeal committee via a letter which states the student's case with supporting documentation appended.
4. After deliberation, the college grade appeal committee makes a positive or negative recommendation to the dean.
5. The dean will consider the appeal, entering one of two dispositions:
  - The appeal has no merit and the faculty member's grade stands as entered;
  - The appeal has merit and is remanded to the department chairperson and faculty member for reconsideration. In these cases, the disposition of the faculty member is reported to the dean and is final.

## **Guidelines for Writing the Appeal Letter**

Communication regarding appeals should be routed as follows: academic advisor, department chair, and college dean. The student's request for action should then be forwarded to the Academic Credits Committee. Academic advisors, department chairs, and academic deans are encouraged to review the University's academic policies with the student to determine that the student is eligible to file an appeal. An appeal for readmission can only be made after the student has been out for a period of one year. Students seeking readmission should remember that they can be reinstated only ONCE. The Academic Credits Committee does not consider financial aid appeals or judicial affairs appeals.

Students should complete the "Appeal Action Request" form and attach it to the appeal letter following the guidelines below. All letters must first be reviewed by the department chair and academic dean BEFORE they are received by the Academic Credits Committee.

The appeal letter should be typed, grammatically correct, and signed by the student requesting consideration by the Academic Credits Committee. It is imperative that the letter contain the student's PERMANENT address, not campus address, to avoid delay. Documentation in support of the appeal must be submitted with the letter. This should be the same documentation that is presented to the academic advisor, department chair, and academic dean unless the additional documents were not available for review. If the appeal seeks readmission, it MUST be accompanied by a letter of support from at least one faculty member.

### **Suggested Format for the Appeal Letter:**

#### **(RETURN ADDRESS or LETTERHEAD)**

Student's Permanent Mailing Address  
City, State ZIP

#### **DATE**

#### **(ADDRESSEE)**

ATTN: Academic Credits Committee  
Office of the Vice President for Academic Affairs  
P.O. Box 9404  
Virginia State University, Virginia 23806

#### **(SALUTATION)**

Dear Academic Credits Committee:

#### **(BODY OF LETTER)**

##### **FIRST PARAGRAPH**

In three or four sentences, state the PROBLEM that you would like the Academic Credits Committee to address. Be clear in stating the nature of your appeal, including the academic policy in question and the exception you are requesting from the Committee. (Ex. seeking readmission after being academically dismissed.)

\* Privacy concerns may limit reviewers' access to sensitive and personal documents submitted by the student.

##### **SECOND PARAGRAPH**

Explain the reasons and history behind your appeal. Make sure you state your case in a clear and concise manner, furnishing pertinent details and extenuating circumstances. Present your case in chronological order so that the Academic Credits Committee can follow the sequence of events and follow your reasoning. Attach supporting documents that are RELEVANT to this case.

### **THIRD PARAGRAPH**

State clearly what action you wish the Academic Credits Committee to take on your behalf. Describe also any actions that you have taken to convince the Committee to rule in your favor or actions you may have to take if the appeal is granted or denied. (For example, describe steps you are taking or have taken to resolve the difficulties that you are experiencing in your academic/personal life, attending community college, seeking counseling or medical treatment, etc.)

### **(CLOSING)**

Sincerely,

### **Student's Signature**

Student's Typed Name

Student's V#

Enclosure(s): List of Documents Attached

### **Completing the Proficiency Examination**

Students requesting the awarding of academic credit through the completion of a proficiency examination should follow the procedure described below.

1. The student contacts the academic advisor to request a proficiency examination.
2. The student completes the appropriate section of the Request for Proficiency Examination form and submits the form to the academic advisor.
3. The academic advisor completes the appropriate section of the form and submits it to his or her department chair.
4. Upon approval, the department chair forwards the form to the chair of the department housing the course for which the proficiency examination is requested.
5. Upon approval, the chair of the department housing the course forwards the form to the dean of the school housing the course for which the proficiency examination is requested.
6. If the dean approves the student's request, the dean then (1) notifies the student to go the Cashier's Office to pay the fee, (2) forwards the form to the Office of the Bursar, and (3) forwards a copy of the signed form to both department chairs.
7. The student pays for the proficiency fee and brings the receipt to the department housing the course.
8. The department housing the course schedules and administers the proficiency examination.
9. The chair of the department housing the course completes the "Report of Proficiency Examination" form, indicating the grade earned by the student.
10. The chair of the department housing the course submits the report to the Office of the Registrar for processing.

NOTE: AT NO TIME should a student handle the proficiency form after the initial request is made with the academic advisor.

## **Academic Glossary**

**Administrative Error:** A term used that identifies a mistake made by faculty, or an administrator.

**Academic Grades:** Symbols that are used to describe academic performance.

**Academic Sanctions:** A process that describes the steps leading to academic suspension of a student.

**Academic Suspension:** Will occur when a student's semester and cumulative average falls below the required minimum for three semesters. A new student (freshman or transfer student without an Associate Degree) must earn a minimum grade point average of 2.0 each semester during the first two regular semesters in residence. Thereafter, the student must earn at least 2.0 semester average each regular semester (to avoid Academic Warning or have a cumulative average of 2.0 (to avoid Probation or Suspension). Transfer students with the Associate Degree must maintain a 2.0 semester average each regular semester (to avoid Academic Warning) or have a cumulative average of 2.0 (to avoid Probation or Suspension) to remain in good academic standing.

**Academic Warning:** Will occur when a student's semester average falls below the required minimum.

**Administrative Withdrawal:** Administrative withdrawal (grade of "W" for all courses in a semester) is warranted based upon irrefutable documentation relative to attendance or other extreme circumstances (e.g., military deployment, medical emergencies, etc.).

**Dispositions:** Final decisions made by the ACC involving requests for exceptions to academic policies in the areas of readmission to the University after suspension for poor academic performance, residency requirements and proficiency examinations, and other areas not assigned to the colleges.

**Grade Appeal:** A series of steps that students must follow to get a grade changed.

**Probation:** Occurs when a student's semester and cumulative average falls below the required minimum for two semesters.

**Proficiency Examination:** An examination designed to allow students to receive academic credit by examination in those subjects in which competence can be demonstrated by examination in lieu of formal course work.

**Readmission after Academic Sanctions:** Students who are suspended for poor academic performance may apply for readmission to the University per the provisions of the Academic Sanctions policy. However, readmission to the University following academic suspension will be granted ONLY ONCE.

**Withdrawal:** If a student voluntarily withdraws from the university for a semester, for any reason, that student will return on the same status with which he/she left. That is, if the student left on "warning," he/ she will return on "warning;" if he/she left on "probation," he/she will return on "probation."

# GENERAL EDUCATION PROGRAM

## Introduction

The Virginia State University (VSU) General Education Program is founded on the principles of academic excellence and personal growth and comprises the core curriculum for all baccalaureate degrees offered by the institution. Driven by the University's Mission and Principles, the program endeavors to develop engaged, enlightened, productive citizens in a changing world.

The liberal arts emphasis of VSU's General Education Program is designed to foster dispositions that value lifelong learning, personal responsibility, integrity, creative expression, and the ethic of service.

## Learning Outcomes

Based upon the *University Mission and Principles*, the following learning outcomes comprise the foundation for the General Education Program courses:

<i>General Education Competency (Focus Areas)</i>	<i>Proficiency Statement</i>	<i>General Education Student Learning Outcomes Students will be able to:</i>
<b>1. Citizenship &amp; Socio-Psychological Integrity</b>	Students will demonstrate an understanding of, and appreciation for, the needs and aspirations of self and others in the contexts of citizenship and socio-psychological integrity	<i>Examine the influence of personal actions and decision on self and others.</i>
<b>2. Global Cultural Literacy and Understanding</b>	Students will demonstrate an understanding and appreciation of global cultural literacy within a trans-cultural context and preferably, a second language.	<i>Identify and analyze diverse cultures and their value to individuals and society through language, literature, arts, and cultural and historical studies.</i> <i>Examine cultural, international, or global practices or events from a variety of perspectives.</i>
<b>3. Scholarly Disposition</b>	Students will demonstrate a commitment to high academic standards and scholarly dispositions.	<i>Independently utilize critical thinking, ethical reasoning, and analytical skills necessary to present and explain cogent, compelling, intellectually based theses/arguments.</i> <i>Apply problem-solving techniques to evaluate arguments or conclusions.</i> <i>Explore causal questions and explanations, and engage in collaborative and individual decision making</i> <i>Utilizing current, effective strategies (including technology) for discovering knowledge in their respective disciplines</i>
<b>4. Communication Skills</b>	Students will demonstrate reading, writing, listening, and speaking proficiency in English.	<i>Effectively communicate, orally and in writing, using Standard English and the appropriate language, tone and disposition for the purpose and audience.</i>
<b>5. Holistic Wellness</b>	Students will gain an understanding of holistic wellness and its maintenance.	<i>Identify and analyze the interrelationships among the physical, social, emotional, intellectual, spiritual, environmental, and occupational components of wellness.</i> <i>Articulate what holistic wellness looks like for life now and in the future.</i>
<b>6. Quantitative/Mathematical Skills</b>	Students will demonstrate proficiency in applying mathematical concepts.	<i>Effectively apply mathematical skills, concepts, and ideas to solve problems, interpret information, make judgments, draw conclusions, and make predictions.</i>
<b>7. Theoretical Perspectives in Social Science</b>	Students will demonstrate an understanding of theoretical perspectives and concepts in social science.	<i>Apply knowledge of political, social, and economic concepts and theories, and principles of social science inquiry to explore contemporary issues and make informed decisions.</i>
<b>8. Scientific Literacy</b>	Students will demonstrate scientific literacy.	<i>Analyze and apply basic scientific principles and research methods of scientific inquiry to make informed decisions.</i>
<b>9. Technological Literacy</b>	Students will demonstrate technological literacy.	<i>Utilize current technology to effectively analyze and manage data, and solve problems in a variety of contexts demanding technological literacy.</i>

## GENERAL EDUCATION PROGRAM PROVISIONS, REQUIREMENTS AND COURSES

The General Education (GE) course framework represents a balanced menu of courses designed to enhance core skill sets, including synthesis and analysis of information; problem solving through structures, organizations and systems; understanding of global/cultural and historical contexts; research; and effective communication skills. Students must satisfy the University’s assessment requirements to document their acquisition of these core skill sets and their level of achievement of the University’s GE student learning outcomes.

### Provisions and Requirements

1. The minimum requirement for successful completion of the General Education program (History, Humanities, Global Studies, English, Literature, Wellness/Health, Mathematics, Social Science and Science, respectively) is 33 semester hours.
2. Departments (majors) may require additional credit hours to satisfy certain specialized accreditation agency requirements.
3. Students may use one course simultaneously to satisfy a requirement for general education and their major discipline; however students may not use one course to satisfy more than one general education course requirement.
4. The minimum grade required for successful completion of English 110 and English 111 (Composition I and Composition II) is “C.”
5. To fulfill the University’s general education assessment requirements, students will be enrolled automatically in two zero credit courses—ASMT 100 (freshmen and certain transfers) and ASMT 300 (juniors)—and must fulfill the requirements specified in the respective course syllabi to earn a grade of “S” (satisfactory). **NOTE:** See the course descriptions in the Political Science and Public Administration section of this catalog.
6. Departments (majors) may choose courses from the limited menus or allow students to choose.

### General Education Assessment requirements for freshmen and juniors

<b>General Education Assessment requirements for freshmen and juniors</b>			
<b>S.H.</b>	<b>Course</b>	<b>Number</b>	<b>Course Title</b>
0	ASMT	100	General Education Assessment (Freshmen)
0	ASMT	300	General Education Assessment (Juniors)

<b>General Education Menus</b>			
<b>English 6.00 semester hours required from the below menu (Minimum grade of 'C')</b>			
<b>S.H.</b>	<b>Course</b>	<b>Number</b>	<b>Course Title</b>
3	ENGL	110	Composition I
3	ENGL	111	Composition II
3	ENGL	112	Composition I (Honors Students only)
3	ENGL	113	Composition II (Honors Students only)

<b>History 3.00 semester hours required from the below menu</b>			
<b>S.H.</b>	<b>Course</b>	<b>Number</b>	<b>Course Title</b>
3	HIST	114	World History I
3	HIST	115	World History II
3	HIST	122	U.S. History I
3	HIST	123	U.S. History II

<b>Global Studies 3.00 semester hours required from the below menu</b>			
<b>S.H.</b>	<b>Course</b>	<b>Number</b>	<b>Course Title</b>
3	AGRI	295	Contemporary Global Studies
3	ARAB	110	Elementary Arabic I
3	ARAB	111	Elementary Arabic II
3	ARAB	212	Intermediate Arabic I
3	ARAB	213	Intermediate Arabic II
3	ENGL	214	World Literature I
3	ENGL	215	World Literature II
3	FREN	110	Elementary French I
3	FREN	111	Elementary French II
3	FREN	212	Intermediate French I
3	FREN	213	Intermediate French II
3	HIST	114	World History I
3	HIST	115	World History II
3	GEOG	210	World Geography
3	GERM	110	Elementary German I
3	GERM	111	Elementary German II
3	GERM	212	Intermediate German I
3	GERM	213	Intermediate German II
1-6	GLST	202	Global Studies Abroad
3	IDUP	270	Introduction to Africana Studies
3	MUSI	199	Music Appreciation
3	POLI	207	International Relations

<b>S.H.</b>	<b>Course</b>	<b>Number</b>	<b>Course Title</b>
3	POLI	210	Comparative Government
3	SPAN	110	Elementary Spanish I
3	SPAN	111	Elementary Spanish II
3	SPAN	212	Intermediate Spanish I
3	SPAN	213	Intermediate Spanish II

<b>Humanities 3.00 semester hours required from the below menu</b>			
<b>S.H.</b>	<b>Course</b>	<b>Number</b>	<b>Course Title</b>
3	ARTS	199	Art Appreciation
3	ARTS	200	Arts and Crafts (non-majors only)
3	DANC	100	Foundations of Dance
3	DANC	103	African and Caribbean Dance Forms
3	DANC	251	History of Dance and the Black Experience
3	DRAM	199	Drama Appreciation
3	ENGL	201	Introduction to Literature
3	ENGL	202	Introduction to African American Literature
3	ENGL	210	English Literature I
3	ENGL	211	English Literature II
3	ENGL	212	American Literature I
3	ENGL	213	American Literature II
3	ENGL	214	World Literature I
3	ENGL	215	World Literature II
3	FREN	110	Elementary French I
3	FREN	111	Elementary French II
3	FREN	212	Intermediate French I
3	FREN	213	Intermediate French II
3	HIST	122	US History I
3	HIST	123	US History II
3	PHIL	140	Introduction to Philosophy
3	GERM	110	Elementary German I
3	GERM	111	Elementary German II
3	GERM	212	Intermediate German I
3	GERM	213	Intermediate German II
3	MUSI	198	Jazz Appreciation
3	MUSI	199	Music Appreciation
3	MUSI	200	Blacks in American Music
3	PHIL	180	Critical Thinking
3	PHIL	220	Logic

S.H.	Course	Number	Course Title
3	PHIL	275	Ethics
3	PHIL	290	Business Ethics
3	SPAN	110	Elementary Spanish I
3	SPAN	111	Elementary Spanish II
3	SPAN	212	Intermediate Spanish I
3	SPAN	213	Intermediate Spanish II
3	SPEE	214	Introduction to Public Speaking

<b>Literature 3.00 semester hours required from the below menu</b>			
<i>ENGL 201 and ENGL 202 are designed for most students. ENGL 210, 211, 212, 213, 214, and 215 are intended for students with a strong background in literature.</i>			
S.H.	Course	Number	Course Title
3	ENGL	201	Introduction to Literature
3	ENGL	202	Introduction to African American Literature
3	ENGL	210	English Literature I
3	ENGL	211	English Literature II
3	ENGL	212	American Literature I
3	ENGL	213	American Literature II
3	ENGL	214	World Literature I
3	ENGL	215	World Literature II

<b>Wellness/Health 2.00 semester hours required from below menu. This requirement can be satisfied by completing minimally one two-semester hour course or two one-semester courses.</b>			
S.H.	Course	Number	Course Title
1	HPER	160	Team Sports I
1	HPER	161	Team Sports II
1	HPER	165	Personal Fitness
1	HPER	166	Beginning Swimming
1	HPER	168	Aerobics and Conditioning
1	HPER	169	Gymnastics
2	HPER	170	Health and Wellness
1	HPER	171	Lifetime Sports I
1	HPER	172	Lifetime Sports II
1	HPER	175	Dance As Art

<b>Social Science 3.00 semester hours required from the below menu</b>			
<b>S.H.</b>	<b>Course</b>	<b>Number</b>	<b>Course Title</b>
3	CJUS	116	Introduction to Criminal Justice
3	ECON	100	Basic Economics
3	ECON	210	Principles of Microeconomics
3	ECON	211	Principles of Macroeconomics
3	FACS	201	Consumer Economics
3	POLI	150	United States Government
3	PSYC	101	Introduction to Psychology
3	POLI	202	Contemporary Political Thought
3	PSYC	212	Human Growth and Development
3	SOCI	101	Introduction to Sociology
3	SOCI	102	Introduction to Anthropology

<b>Mathematics 6.00 semester hours required from the below menu</b>			
<i>It is recommended that a student successfully complete the appropriate two-course sequence [six semester hours or eight semester hours depending on major] of mathematics to satisfy the approved curriculum in the student's major and concentration.</i>			
<b>S.H</b>	<b>Course</b>	<b>Number</b>	<b>Course Title</b>
3	MATH	112	Basic Mathematics I
3	MATH	113	Basic Mathematics II
3	MATH	120	College Algebra
3	MATH	121	College Algebra & Trigonometry
3	MATH	122	Finite Mathematics
3	MATH	130	Numbers and Operations
3	MATH	131	Algebra and Functions
4	MATH	150	Pre-calculus
4	MATH	260	Calculus I
4	MATH	261	Calculus II
3	PHIL	220	Introduction to Logic (Contingent upon mathematics placement test score.)
3	STAT	210	Statistics

**Science 4.00 semester hours required from the below menu**

**To meet the General Education requirement in Science a student must successfully complete one course with associated lab [four semester hours] or the appropriate science courses to satisfy the approved curriculum in the student's major.**

<b>S.H.</b>	<b>Course</b>	<b>Number</b>	<b>Course Title</b>
4	AGRI	100	Earth Science + Lab
4	AGRI	150	Introduction of Environmental Science + Lab
4	BIOL	116	Biological Science + Lab
4	BIOL	120	Principles of Biology I + Lab
4	BIOL	121	Principles of Biology II+ Lab (Bio Majors Only)
4	CHEM	100	Chemistry and Society + Lab
4	CHEM	151/153 (Lab)	General Chemistry I + Lab
4	CHEM	152/154 (Lab)	General Chemistry II + Lab
4	CHEM	161/163 (Lab)	Chemistry I + Lab (Chem. Majors Only)
4	CHEM	162/164(Lab)	Chemistry II + Lab (Chem. Majors Only)
4	DIET	101	Nutrition-Contemporary Health Issues + Lab
4	PHYS	100	Physical Science + Lab
4	PHYS	105	Introduction to Physics I
4	PHYS	106	Introduction to Physics II
4	PHYS	112	General Physics I + Lab
4	PHYS	113	General Physics II + Lab

## SPECIAL ACADEMIC PROGRAMS

### Bachelor of Individualized Studies Degree

The Bachelor of Individualized Studies (BIS) degree at Virginia State University is designed specifically for adult students. The BIS degree provides working adults the opportunity to complete a college degree through a combination of traditional and non-traditional methods of earning academic credit. The traditional methods include taking courses at VSU and transferring credit from other accredited community colleges, colleges, and universities. The non-traditional methods include credit by examination, credit for educational experiences in the Armed Forces as evaluated by the American Council on Education, and credit for work/life learning as documented by a personal portfolio. Candidates must earn a minimum of 120 semester hours or the equivalent.

In completing the degree, the following minimum requirements must be met:

**GENERAL EDUCATION:** A minimum of 33 semester hours (s.h.) must be in General Education, consisting of a cadre of courses in: History, Humanities, Global Studies, English, Literature, Wellness/Health, Mathematics, Social Science and Science, respectively.

**SPECIALIZATION:** A minimum of 30 semester hours in a particular area selected by the student will be designated as the specialization. This specialization indicates the primary focus of the individualized degree program. This field of specialization should not be confused with a major offered by one of the other departments. At least 15 s.h. in the specialization must be coursework taken at VSU at the upper level (junior/senior level courses).

**ELECTIVES:** The remaining 57 semester hours required to complete the degree are elective credits. These electives complement the area of specialization or reflect a secondary interest.

Additional requirements in completing the above 120 semester hours include:

**RESIDENCY:** At least 31 s.h. must be earned from Virginia State University.

**COURSE LEVEL:** At least 40 s.h. must be earned at the upper division (Junior/Senior level).

**COURSE TYPE:** At least 60 s.h. must be earned from traditional classroom study transfer and/or resident courses). At least 30 of these 60 s.h. must have been earned within six years of graduation. A maximum of 30 s.h. may be awarded for work/life experience (portfolio petition). A maximum of 30 s.h. is allowed for military occupational specialty, and an additional 30 s.h. may be awarded for military education courses.

**Methods of earning credit:** In addition to taking resident coursework at Virginia State University, official award of credit may also be accomplished through the following processes:

**Transfer credit** is approved through the Admissions Office as part of the application for admission process. When admitted, a matriculating student's accepted transfer credit will be posted by Admissions directly to the student's VSU academic record.

**Credit for educational experiences in the Armed Forces** may be awarded after matriculation at Virginia State University and may be awarded in areas, which fall within the regular curricular offerings of the University. The admitted student must enroll in INDS 302, Orientation, and submit documentation of military education/training (a military transcript). Academic credit is based on the recommendations of the American Council on Education (ACE), as found in the Guide to the Evaluation of Educational Experiences in the Armed Services. This evaluation is done by an advisor in the BIS degree program.

**Credit for work/life experience** may be awarded on the basis of portfolio assessment. Matriculating BIS students must enroll in INDS-301, Life/Work Seminar, in which they will assess their experiences and match them with courses in the current University Catalog. A portfolio documenting experiential learning will be developed for each course petitioned. The portfolio should follow the current syllabus for the course, addressing the knowledge, skills, and abilities outlined on the syllabus. Each portfolio will be evaluated by the faculty of the academic department from which credit is being petitioned. Credit awarded through portfolio petition may be used only in the BIS degree. An administrative fee is charged for each portfolio. Non-traditional credit awarded by Virginia State University will be identified on the student's transcript as credit awarded for prior experiential learning.

Credit earned may be used to satisfy more than one of the requirements above. Persons are not eligible for admission to the Bachelor of Individualized Studies program until four (4) years after their graduation from high school. Persons enrolled as full-time students in traditional degree programs at Virginia State University cannot not be admitted to the Individualized Studies program until they have been out of college a minimum of one (1) full year. Any request for an exception to this policy must be submitted in writing to the **BIS Advisory Committee**. Persons with baccalaureate degrees from accredited institutions are not eligible for admission to this program nor may persons be enrolled simultaneously in the Individualized Studies program and another baccalaureate program.

Persons seeking admission to the Bachelor of Individualized Studies program must be graduates of an accredited secondary school or must possess a GED certificate. They must meet the general requirements of the University for Transfer Admission. Non-traditional credit may be awarded only after the requirements for Transfer admission are met.

Persons admitted to the Bachelor of Individualized Studies program will be required to take INDS 302 Orientation. This course is designed to reorient students to college, complete the process of defining personal degree objectives, and finalize the requirements of the program to meet those objectives.

Persons graduating with the Bachelor of Individualized Studies degree must meet the standards mandated by the University for all graduates. (Refer to Graduation Procedures)

Admission to the Bachelor of Individualized Studies program does not provide for automatic admission to other programs at Virginia State University.

### **Summary of Degree Requirements**

Total semester hours required	120 semester hrs.
<b>General Education Distribution</b>	<b>33 credits hrs.</b>
English Composition.....	6 credits
Humanities.....	3 credits
Social Sciences.....	3 credits
Mathematics.....	6 credits
Natural Sciences.....	4 credits
History.....	3 credits
Global Studies .....	3 credits
Literature .....	3 credits
Health/Wellness.....	2 credits
<b>Specialization</b>	<b>30 credits (min.)</b>

**Restrictive Elective** 1 credit

**INDS 302 ORIENTATION** 1 credit

This course is designed to reorient students to college, complete the process of defining personal degree objectives, and finalize the requirements of the program to meet those objectives.

**Unrestrictive Electives** 56 credit hours (min.)

***Required Courses*** 4 credit hours (min.)

**INDS 301 - LIFE/WORK SEMINAR – 1 semester hour**

This course is required for students seeking credit for learning from life/work experience.

**INDS 499 - SENIOR RESEARCH PROJECT - 3 semester hours**

An independent research project, which builds upon the student's area of specialization and serves as a culminating experience.

## **SPECIAL PROGRAMS**

A variety of special programs are available for groups within the community with special problems and/or interests, including senior citizens and children.

### **Virginia State University at Fort Lee, VA**

Virginia State University offers a variety of courses at Fort Lee, Virginia. At Fort Lee, classes are offered in two 8-week sessions in each of the fall and spring semesters, and in one 8-week session in the summer, for a total of five sessions per calendar year. Students have the opportunity to attend classes on a full-time or a part-time basis in the evenings. At Fort Lee, six (6) semester hours taken during a single 8-week session constitutes full-time study for purposes of computing veterans' benefits for that period.

Counseling is available during office hours and by appointment. Military and ex-military personnel may qualify for tuition-assistance or veterans' benefits.

The VSU Office at Fort Lee is located in Army Continuing Education Services Building, Building 8035, Fort Lee, VA. The telephone number is (804) 862-6269/FAX 862-6271.

### **Honors Program**

The Honors Program is designed to meet the unique educational needs of Virginia State University's academically talented and highly motivated undergraduate students. The primary goal of the Honors Program is to create and maintain a stimulating, supportive environment in which young scholars may engage in a wide range of challenging intellectual and creative pursuits. The program encourages the participation of all departments, fosters innovation and experimentation in undergraduate education, and supports University-wide cultural enrichment.

#### **Major features of the Honors Program include the following:**

- Honors Study
- Honors Lecture Series
- Leadership Forum
- Undergraduate Research
- Cultural Enrichment Activities
- Graduate School Partnerships

The University provides honors sections of regular university courses in the general education program; these courses encourage creativity, critical thinking, problem solving and deeper intellectual inquiry. The honors curricula provide increased opportunities for presidential and provost scholars to cultivate habits of critical thinking, communication, creative expression and independent thought through smaller classes taught by selected faculty. The honors courses reflect instructional strategies which include more use of primary sources, more fully developed theoretical background, and some integration of interdisciplinary perspectives. The honors courses utilize more creative learning methodologies such as greater emphasis on discussion, writing, research and active extracurricular learning experiences.

The Honors Program is open to high school graduates, transfer students, and continuing students. In addition to applying and being admitted to the University, students who aspire to participate in the Honors Program are invited to file a separate application to the Honors Council, Box 9207, Virginia State University, Petersburg, Virginia 23806. Each applicant must meet criteria established by the Honors Council, including an excellent combination of grade-point-average, SAT/ACT scores, artistic/creative performances and portfolios, record of leadership experiences, and letters of recommendation.

## **Veterans and Military Affairs**

VSU encourages veterans and active duty military to apply for admission as either full-time or part-time students. Information on educational benefits available to veterans may be obtained from the Veterans Affairs Advisor, Academic Support Services, and VSU. Veterans and active duty military who have one or more years of military duty will be granted credit for basic military training, based on the recommendations of the American Council on Education (ACE) *Guide to the Evaluation of Educational Experiences in the Armed Services*. This credit will satisfy the University General Educational 'Wellness and Health' requirement. In addition, all traditional undergraduate degree programs at VSU may accept additional ACE recommended credit, as appropriate to their curriculum requirements, up to a total of eighteen (18) semester hours. The eighteen-hour limit does not apply to this BIS degree.

# College of Agriculture

**Dean:**

M. Ray McKinnie  
L. Douglas Wilder Building, Room 309  
(804) 524-5961  
[mmckinnie@vsu.edu](mailto:mmckinnie@vsu.edu)

**Description of College:**

The College of Agriculture is comprised of the following units:

- Department of Agriculture
- Department of Family and Consumer Science
- Department of Hospitality Management
- Agricultural Research Station
- Cooperative Extension
- Randolph Farm

**Mission of the College:**

To improve the educational and socio-economic well-being of students, families, and communities - focusing on excellence through integrated instruction, research and extension programs.

**Objectives of the College:**

It is the primary objective of the College to prepare students to enter professional careers in both public and private sectors or to continue their education beyond the baccalaureate level in professional or graduate school. The specific objectives of various units of the College are:

- To prepare students for employment in a multitude of agriculture, family, hospitality and business-related occupations, and for advanced studies in graduate schools.
- To prepare students for employment in public and private agencies.
- To facilitate application of innovative technologies through agricultural research for solutions to diverse problems relative to sustainable production of economically competitive agricultural commodities.
- To provide individuals, groups and organizations access to information and programs about innovative human and technological systems through Cooperative Extension.
- To support activities of Agricultural Research, Cooperative Extension, and the College's degree programs through facilities at the Randolph Farm.

**Other Pertinent College Information:**

Together, the Departments of Agriculture, Family and Consumer Science and Hospitality Management, Agricultural Research, Cooperative Extension, and Randolph Farm fulfill the land-grant mission of the University. Degree programs offered within the three academic departments are described in the section that follows.

**Mission of Degree Programs:**

In accordance with the University's mission, The Departments of Agriculture, Family and Consumer Science and Hospitality Management are committed to assuring that each student reaches her/his full potential and excels in society.

**Objectives of Degree Programs:**

- Facilitate growth and development of each student throughout his/her life span;
- Provide students with experiential learning opportunities related to their field of study;
- Prepare students to be highly qualified for employment;
- Prepare teachers in the field of Agriculture and Family and Consumer Science;
- Prepare students to enter advanced study in Agriculture, Family and Consumer Science and Hospitality Management in graduate schools of their choice; and
- Prepare dietetic practitioners to become registered dietitians (RD).

**DEPARTMENT OF AGRICULTURE  
ACADEMIC PROGRAMS**

**Chairperson:** Christopher Catanzaro  
Owens Hall, Room 103  
(804) 524-5672

**Emeritus Professors:** Conrad Gilliam, Gollakota Jagannadham

**Professor:** Shobha Sriharan

**Associate Professors:** Christopher Catanzaro, Glenn Chappell, Richard Omotoye,  
Pamela Thomas-Buchanan

**Areas of Focus:**

- Agriculture Business and Economics
- Agricultural Education (Teacher Education Endorsement)
- Animal Science
- Animal Science and Pre-Veterinary Medicine
- Aquatic Science
- Environmental Science
- Plant and Soil Science

**Minor:**

The minor in Agribusiness Management provides a program of study for students interested in complementing their majors with agribusiness skills. The purpose of the Agribusiness Management minor is to supplement a student's training in his/her major field of study with an understanding of fundamental agribusiness concepts and decision-making tools.

**Description of the Department:**

The Department of Agriculture offers programs leading to the Bachelor of Science (B.S.) degree in Agriculture with the following areas of focus: Agriculture Business and Economics, Teacher Education Endorsement, Animal Science, Animal Science and Pre-Veterinary Medicine, Aquatic Science, Environmental Science, and Plant and Soil Science.

**The Program:**

The Agriculture curricula for prospective agricultural professionals are designed with differentiated curricula to prepare for careers of their choice. Each curriculum provides balance among general education, professional subject matter, concentration in specific areas, and electives.

- The Agriculture Business and Economics curriculum focuses on analysis and problem solving in the production, distribution, and consumption of agricultural goods as well as the management of services and natural resources. In addition, the curriculum emphasizes public policy, financial management, farm management, non-farming agribusiness management and marketing. This program prepares students for advanced study in agribusiness, agricultural economics and/or employment in one of the many areas of agribusiness and/or agencies, such as the U. S. Department of Agriculture.

- The Agricultural Education (Teacher Education Endorsement) curriculum prepares individuals to serve effectively as secondary school teachers of agriculture, extension agents, and in positions with agriculturally related agencies and industries. Students preparing to teach will meet criteria established by the Center for the Undergraduate Professional Education Programs in the College of Education.
- The Animal Science curriculum and the Animal Science and Pre-Veterinary Medicine curriculum are designed for the students who enjoys and are intrigued by science and welcomes the challenges of such a complex field of study. The programs prepare students for admission to veterinary school and/or leads to employment in many animal science and related specializations.
- The Aquatic Science curriculum is designed to prepare students for advanced study or professional and technical careers in hydrobiology, aquaculture and fisheries-oriented occupations. The primary focus of the Aquatic Science program is on aquaculture, the rearing of aquatic organisms under controlled or semi-controlled conditions.
- Environmental Science is the multidisciplinary study of the ever-changing physical world in which we coexist with other living organisms under various conditions. The field includes ecological principles and sustainability, and methods to study and sustain biodiversity, natural resources, environmental quality and human societies.
- The Plant and Soil Science program deals with agronomic crops for the large scale, field production of food and fibers. This includes many aspects of soil science, ranging from basic physical and chemical properties of soils to the management of soils as a sustainable resource for crop and pasture production. It also includes studies related to the high-intensity production of small fruits and vegetables for human consumption, as well as studies of green industry ornamental crops (trees, shrubs, flowering annuals and perennials), which serve to sustain life, provide ecological services, and improve quality of life.

### **Mission of the Department**

In accordance with the Virginia State University's mission, the Department of Agriculture is committed to servicing the Commonwealth of Virginia, the nation and the global community by generating and disseminating knowledge about food, agriculture and environmental sciences, and ensuring that each student reaches his/her full potential and excels in society. The Department is also committed to the establishment and maintenance of an appropriate environment for the development and dissemination of knowledge through quality instruction, research and community service.

### **Objectives of the Department**

The specific objectives of the Department are to:

1. Provide students with hands-on educational experiences and knowledge in the different and most recent developments in food, agriculture and environmental sciences.
2. Provide students with quality preparation for employment in various fields of food, agriculture and environmental science related occupations in the changing global market.
3. Provide advice, guidance and quality preparation for students to pursue advance training in any nationally reputable academic program.
4. Empower students to be leaders and productive professionals who are capable of contributing meaningfully to the development of their communities.

### **Scholarships**

- Presidential Scholarship (University wide)
- Provost Scholarship (University wide)
- Agriculture Alumni Scholarship
- Southern States Scholarship
- J.R. Thomas Camp Scholarship
- Chesterfield Farm Bureau Scholarship
- Dinwiddie Farm Bureau Scholarship
- Other financial/scholarship opportunities are also available.

### **Student Organizations**

- VSU Chapter of Minorities in Agriculture, Natural Resources and Related Sciences (MANRRS)
- Virginia Farm Bureau Young Farmers and Ranchers
- Pre-Vet Club
- Agriculture Student Council (College of Agriculture)

## **AGRICULTURE Course Descriptions**

**NOTE: All core courses for majors: Students majoring in all concentrations in Agriculture are required to earn a final grade of C or higher in all courses offered in the Department (AGEC, AGRI, AGME, AQSC, ANSC, HORT, GEES, PLSC and SOSC) for courses to count towards their major curriculum requirements for graduation.**

### **AGRI 100 GENERAL EARTH SCIENCE - 3 semester hours**

A survey course in earth science designed for non-science majors.

### **AGRI 100 GENERAL EARTH SCIENCE LABORATORY - 1 semester hour**

**Corequisite: AGRI 100**

### **AGRI 140 INTRODUCTION TO SUSTAINABLE AGRICULTURE AND SOCIETY - 3 semester hours**

Sustainable agriculture integrates three main goals--environmental health, economic profitability, and social and economic equity. A variety of philosophies, policies and practices have contributed to these goals. Sustainability rests on the principle that we must meet the needs of the present without compromising the ability of future generations to meet their own needs. Therefore, this course emphasizes the importance of stewardship of both natural and human resources with specific focus on agriculture and society in general.

### **AGRI 295 CONTEMPORARY GLOBAL STUDIES (AND GLOBAL SEMINAR PROGRAM)**

**3 semester hours**

This course is designed to introduce global issues on food security and its relationship to sustainable development. It is a multidisciplinary course to explore interrelationships between food, population, the environment, and socio-economic development through a case study/discussion approach. It also examines the psychological implications of food security and sustainable development issues and their psychological impact.

### **AGRI 341 RESEARCH METHODS IN AGRICULTURE - 3 semester hours**

This course aims to train students in fundamental principles and practices related to research in agricultural sciences; literature search; preparation and review of scientific publications; preparation and presentations of scientific seminars; and preparation of resume/thesis/dissertation. Topics related to Ethics in Research and Reporting would also be discussed.

**Prerequisites: Completion of core agriculture courses, and STAT 210 Elementary Statistics**

### **AGRI 400 INTERNSHIP - 3 semester hours**

Assignment of students to an Agricultural Science or related agency in their junior year for practical on-the-job experience. This assignment involves career counseling, ethics in the work place, cooperating with others, and following the instructions of supervisors.

### **AGRI 401 INDEPENDENT STUDY - 3 semester hours**

An opportunity for students to work independently on Agricultural Science related issues and problems under the guidance of a single professor.

**Prerequisite: Academic advisor's approval; junior or above standing**

### **GEES 181 GENERAL EARTH SCIENCE – 3 semester hours**

A survey course in earth science designed for non-science majors.

### **GEES 181 GENERAL EARTH SCIENCE LABORATORY – 1 semester hour**

**Corequisite: GEES 181**

## **AGRICULTURE BUSINESS AND ECONOMICS**

### **AGEC 142 PRINCIPLES OF AGRICULTURAL ECONOMICS I - 3 semester hours**

The fundamental principles of economics as applied to the agriculture economy. The syllabus will highlight the agricultural development of the U.S.A. The syllabus will also develop the concept of economics as a social science, as well as the fundamental principles explaining the behavior of major economic units such as the consumer and farm-firm; price determination in general; the concept of elasticity; and the characteristics of various market structures such as perfect competition, monopoly, and oligopoly. Students will be introduced to the application of economic principles to international trade, environmental management and agricultural policy.

### **AGEC 143 PRINCIPLES OF AGRICULTURAL ECONOMICS II - 3 semester hours**

Fundamental principles of economics as applied to the agriculture economy. Particular attention is paid to factors determining the level of income and employment; the analysis of the impact of monetary and fiscal policy on the food and fiber sector.

### **AGEC 300 INTERNATIONAL AGRIBUSINESS MANAGEMENT – 3 semester hours**

Provides students with detailed insight into concepts, principles and strategies to manage an international agribusiness enterprise, to include the following topics: management and marketing, finance and purchasing, imports and exports, transportation and supply-chain strategies, cross-border business cultures and practices, customer service-related issues, and strategies to minimize risk exposure.

**Prerequisites:** AGECE 142 and 143 Principles of Agricultural Economics I and II; or ECON 210 Principles of Microeconomics and ECON 211 Principles of Macroeconomics

### **AGEC 340 AGRIBUSINESS ENTREPRENEURSHIP - 3 semester hours**

A course for all majors that will focus on the importance of business to the food and agricultural sector in a global economy. The course will explore the mechanics of developing a business plan, and applying the principles of marketing, management and finance. The course provides students with hands-on activities, and works through steps to identify and develop sustainable businesses. The fundamentals of conceptualizing, starting, developing and managing new ventures with a global perspective are covered. The course also emphasizes the entrepreneur's role as a leader, decision maker and risk bearer. Emphasis is on market analysis and competition and in developing agribusiness competitive strategies. Students will develop a comprehensive business plan.

**Prerequisite:** AGECE 142 Principles of Agricultural Economics I or ECON 210 Principles of Microeconomics

### **AGEC 342 COOPERATIVE MARKETING - 3 semester hours**

The survey of cooperative activities with emphasis on agricultural marketing cooperatives; types of cooperatives; methods of organization and operation; principles; legal and tax aspects; cooperative finance; economic possibilities and limitations of cooperation.

**Prerequisites:** AGECE 142 Principles of Agricultural Economics I, sophomore or above standing

### **AGEC 344 FINANCIAL MANAGEMENT IN AGRICULTURE I - 3 semester hours**

Introduces the principles of financial management with special application to the farm-firm decision making. Student will be grounded in the fundamentals of financial analysis, planning and control using three basic financial statements- balance sheet, income statement, and cash flow budget. Other major areas of concern will include capital structure, liquidity and risk management. The essentials for the assessment of agricultural business performance will include profitability, risk and liquidity management.

**Prerequisites:** AGECE 142 and 143 Principles of Agricultural Economics I and II, ACCT 200 Introduction to Finance & Managerial Accounting and STAT 210 Elementary Statistics

**AGEC 346 FARM BUSINESS MANAGEMENT - 3 semester hours**

Business and economic principles applied to decision making in the management of the farm business. Emphasis will be placed on cash flow, partial, enterprise, and whole farm budgeting information systems for farm accounting, analysis, and control. Obtaining and managing land, capital and labor resources. Also focuses on alternatives for farm business organization.

**Prerequisites:** ECON 310 Microeconomics and AGEC 344 Financial Management in Agriculture

**AGEC 347 LAND ECONOMICS - 3 semester hours**

Focus of the course is on the principles of land utilization emphasizing problems of land management, land tenure, factors affecting the value of farm land, land classification and changes in land utilization. The course investigates the role of public policy in land ownership and use.

**Prerequisite:** ECON 310 Microeconomics

**AGEC 441 MANAGEMENT OF AGRI-BUSINESS FIRMS - 3 semester hours**

Focuses on principles of production, marketing, financial and human resource management and their application to the operation and management of firms serving agriculture. This course is intended to increase students' ability to apply basic economic concepts to decision making in the agri-business firm. Problem solving involving quantitative and conceptual analyses of production and investment decisions, pricing strategies, technological change, and the management of risk.

**Prerequisites:** AGEC 344 Financial Management in Agriculture I, ECON 310 Microeconomics  
STAT 210 Elementary Statistics

**AGEC 443 FINANCIAL MANAGEMENT IN AGRICULTURE II - 3 semester hours**

Financial analysis of the farm firm; factors affecting firm growth; capital budgeting techniques; investment analysis; financial aspects of leasing; legal aspects of lending; financial intermediation and major financial institutions for agriculture; credit scoring; loan pricing; and asset-liability management by agricultural lending institutions; public policies affecting agricultural credit markets; risk management strategies in agriculture; farm insurance; farm real estate appraisal, international dimensions of agricultural finance.

**Prerequisites:** ECON 310 Microeconomics, ECON 320 Macroeconomics,  
STAT 210 Elementary Statistics, AGEC 344 Financial Management in Agriculture I  
AGEC 346 Farm Business Management

**AGEC 444 AGRICULTURE POLICY - 3 semester hours**

An examination of the process of public policy making for the Food, Agriculture and Natural Resources sector of the economy. Particular attention is paid to the rationale for public policy intervention in agriculture as well as the mechanisms used to intervene; instability and stabilization of agriculture prices and income; government policy choices and implementation.

**Prerequisites:** ECON 310 Microeconomics, ECON 320 Macroeconomics and  
POLI 150 United States Government

**AGEC 445 ADVANCE FARM MANAGEMENT - 3 semester hours**

Management techniques of planning, implementation and control as applied to farm businesses. Techniques of decision-making in agriculture. Accounting control concepts and decision theory as used to manage agriculture enterprises.

**Prerequisites:** AGEC 346 Farm Business Management

**AGEC 447 AGRICULTURE MARKETING - 3 semester hours**

The study of the structure and function of the food marketing system, demand, supply and market price determination; marketing margins; product quality and grading; markets over space. Markets over time; storage, price discovery and risk management. Market structure, performance and efficiency in agricultural markets. Marketing institutions; cooperatives and agricultural policy.

**Prerequisites:** ECON 310 Microeconomics, AGEC 344 Financial Management in Agriculture I

**AGEC 448 INTRODUCTION TO COMMODITY MARKETING - 3 semester hours**

Fundamental of managing agricultural risks through the futures and options markets. The mechanics of trading in the futures market. The principles of fundamental and technical analysis.

**Prerequisites:** ECON 310 Microeconomics, AGEC 344 Financial Management in Agriculture I,

**AGRICULTURAL EDUCATION****AGRI 240 LEADERSHIP AND ORGANIZATIONAL MANAGEMENT - 3 semester hours**

Focuses on the foundational theories and practices of leadership. Emphasizes the application of theoretical concepts to real-life leadership situations. Examines the impacts of organizational history and structure on today's leadership challenges. Attention is given to workplace scenarios and issues, to enable students to explore a vision for continuous improvement as future leaders. Students will observe, practice and develop leadership skills necessary to succeed as advisors or managers of organizations. A practicum will be used in conjunction with this course for observation of groups and group leaders. Organization and functions of youth organizations (4-H, FFA and other youth and adult groups) are also examined.

**AGRI 342 METHODS OF TEACHING AGRICULTURE - 3 semester hours**

Prepares students to organize and provide instruction to all types of agriculturally oriented groups. A practicum is used to provide an opportunity for the student to observe methods of teaching by experienced teachers.

**Prerequisite:** Academic advisor's approval; junior or above standing

**AGRI 343 PRINCIPLES AND PRACTICES OF AGRICULTURAL EDUCATION -3 semester hours**

Students will develop an insight into the history and philosophy of a program of agricultural education program in secondary schools. Special emphasis will be given to planning, conducting and managing a department. A practicum will be used to observe teachers in as they perform management tasks involved in operating a successful educational program for youth and adults.

**Prerequisites:** Academic advisor's approval; junior or above standing

**AGRI 402 STUDENT TEACHING IN AGRICULTURE – 3 semester hours**

This course is designed to provide supervision on the content area for pre-service secondary agriculture candidates.

**Prerequisite:** Department approval

**Co-requisite:** EDUC 402 Student Teaching Seminar, EDUC 402 Student Teaching

**AGRI 441 ORGANIZED INSTRUCTION IN AGRICULTURAL EDUCATION -3 semester hours**

Evaluation of instructional proceedings, planning programs of instruction, and evaluation of instructional outcomes.

**Prerequisite:** Junior Standing, Academic Advisor's approval

**AGRI 446 PRINCIPLES OF COOPERATIVE EXTENSION - 3 semester hours**

A study of the philosophy, history and development of the Cooperative Extension Service. In addition, attention is given to leadership training, and instructional methods and techniques. Each student will be required to complete a practicum with a selected extension agent.

**Prerequisites:** AGRI 140 Introduction to Sustainable Agriculture and Society, AGEC 342 Cooperative Marketing; sophomore or above standing

## **AGRICULTURAL MECHANIZATION**

### **AGME 140 AGRICULTURAL MECHANICS - 2 semester hours**

The selection, care and use of supplies, tools and equipment to plan and make practical application of mechanical skills in the area of welding, woodworking (hand and power) soldering, pipe fitting, painting, sketching, drawing and plan reading.

### **AGME 242 INTRODUCTION TO AGRICULTURAL ENGINEERING - 3 semester hours**

A study of the basic engineering principles in the areas of agricultural power and machinery, rural electrification, agricultural structures, and soil and water management.

**Prerequisites:** GEMA 112 Basic College Algebra and Trigonometry,  
GEMA 113 Basic College Algebra and Trigonometry sophomore or above standing

### **AGME 346 AGRICULTURAL POWER MACHINERY - 3 semester hours**

A study of the construction, operation, adjustment and management of agricultural implements and power machinery. Primary emphasis is on tractor and machinery management.

**Prerequisites:** AGME 242 Introduction to Agricultural Engineering

### **AGME 442 ADVANCED AGRICULTURAL MECHANICS - 3 semester hours**

Emphasis on organization and management of the agricultural mechanics laboratory, selection, care, and use of power equipment in construction and repair jobs. Special emphasis is placed on developing skills in areas where the student is deficient.

**Prerequisites:** AGME 140 Agricultural Mechanics and  
AGME 242 Introduction to Agricultural Engineering

### **AGME 444 ELECTRICITY IN AGRICULTURE - 3 semester hours**

A study of the practical application of electricity in the home and in the agricultural industry with emphasis on planning the wiring systems, selection, operation and maintenance of electrical equipment.

**Prerequisites:** AGME 242 Introduction to Agricultural Engineering

### **AGME 445 INTERNAL COMBUSTION ENGINES - 3 semesters hours**

A study of internal combustion engines to include principles of designing, operating, rating, testing, overhauling, and the application for agricultural uses. Primary emphasis is on the basic operation of air cooled engines.

**Prerequisites:** AGME 242 Introduction to Agricultural Engineering and  
AGME 346 Agricultural Power Machinery

### **AGME 446 ADVANCED AGRICULTURAL POWER MACHINERY - 3 semester hours**

A study of construction, operation, and adjustment of agricultural implements, and power machinery.

**Prerequisites:** AGME 346 Agricultural Power Machinery

### **AGME 447 ADVANCED INTERNAL COMBUSTION ENGINES - 3 semester hour**

A study of multi-cylinder internal combustion engines, including designing, operating, testing, repairing, overhauling, and the application of agricultural uses.

**Prerequisites:** AGME 445 Internal Combustion Engines

## ANIMAL SCIENCE AND PRE-VETERINARY MEDICINE

### **ANSC 140 PRINCIPLES OF ANIMAL SCIENCE - 3 semester hours**

Gives an overview of the biological principles applicable to the animal sciences. Concentrates mainly on reproduction, genetics, nutrition, lactation, and other facets of the animal industries.

### **ANSC 241 LIVESTOCK FARM PRACTICES - 3 semester hours**

Supervised farm practices in feeding, handling, and managing farm animals.

**Prerequisites:** ANSC 140 Principles of Animal Science, sophomore or above standing

### **ANSC 242 PRINCIPLES OF POULTRY PRODUCTION - 3 semester hours**

Principles and practices underlying the reproduction and growth of the domestic fowl. Includes the study of breeds, varieties and types of poultry.

### **ANSC 246 INTRODUCTION TO EQUINE SCIENCE - 3 semester hours**

A study of the fundamental principles of equine science to include: Horse terminology, impact of horses on society, history, breeds, management, genetics, reproduction, health, nutrition, behavior, riding, and the business aspects of horse industry.

### **ANSC 343 SWINE PRODUCTION - 3 semester hours**

Feeding and management practices used in purebred and commercial swine production

**Prerequisite:** ANSC 242 Poultry Production

### **ANSC 344 BEEF CATTLE PRODUCTION - 3 semester hours**

Methods of producing, managing, and marketing commercial and purebred cattle.

**Prerequisites:** ANSC 140 Principles of Animal Science, sophomore or above standing

### **ANSC 345 VETERINARY ANATOMY AND PHYSIOLOGY - 3 semester hours**

A consideration of gross anatomy and physiological functions of animals as a background for the studies in nutrition, reproduction and diseases.

**Prerequisites:** ANSC 140 Principles of Animal Science, BIOL 241 Introduction to Microbiology, BIOL 313 General Zoology sophomore or above standing

### **ANSC 346 PHYSIOLOGY OF REPRODUCTION - 3 semester hours**

Study of reproductive processes with special emphasis upon reproduction efficiency of domestic animals.

**Prerequisite:** ANSC 345 Veterinary Anatomy and Physiology; junior or above standing

### **ANSC 348 FARM DAIRYING - 3 semester hours**

Teaches the basic principles of dairy management, current knowledge in the many areas of dairy science and present day practices of successful dairy persons.

**Prerequisites:** BIOL 120 Principles of Biology I, ANSC 140 Principles of Animal Science, BIOL 313 General Zoology; sophomore or above standing

### **ANSC 349 VETERINARY HYGIENE - 3 semester hours**

Predisposition, causes and symptoms of infections, parasitic and nutritional diseases with emphasis on prevention and control through management and sanitation.

**Prerequisites:** BIOL 120 Principles of Biology, BIOL 313 General Zoology, ANSC 140 Principles of Animal Science; sophomore or above standing

### **ANSC 350 SMALL RUMINANT MANAGEMENT - 3 semester hours**

Principles and practices of production, management, and marketing of small ruminants (ex. sheep, goats). The role of genetics, nutrition, reproduction and animal health will also be emphasized.

**Prerequisite:** Junior or above standing

**Co-requisite:** ANSC 349 Veterinary Hygiene

**ANSC 351 FEEDS AND FEEDING - 3 semester hours**

Basic nutritional principles, composition and value of feeds and the formulation of rations for farm animals.

**Prerequisites: BIOL 120 Principles of Biology, BIOL 313 General Zoology,  
ANSC 140 Principles of Animal Science; junior or above standing**

**ANSC 441 ANIMAL NUTRITION - 3 semester hours**

Course matter focuses on nutrients and their digestion, metabolism, biological role and the principles of animal nutrition.

**Prerequisites: BIOL 120 Principles of Biology, BIOL 313 General Zoology,  
ANSC 140 Principles of Animal Science, junior or above standing**

**ANSC 446 SPECIAL TOPICS - 3 semester hours**

Presentation and discussion of papers on animal industry subjects.

**Prerequisites BIOL 120 Principles of Biology, BIOL 313 General Zoology,  
ANSC 140 Principles of Animal Science; academic advisor's  
approval and junior or above standing**

**ANSC 447 SPECIAL PROBLEMS - 3 semester hours**

Lectures and assignments relating to industry problems in breeding, nutrition, diseases, market products, and management of farm animals.

**Prerequisites: BIOL 120 Principles of Biology, BIOL 313 General Zoology,  
ANSC 140 Principles of Animal Science; academic advisor's approval and  
junior or above standing**

**ANSC 448 ADVANCED LIVESTOCK PRODUCTION - 3 semester hours**

A study of economic, nutritional and managerial factors affecting the operation of livestock enterprises. Field trips required.

**Prerequisites: BIOL 120 Principles of Biology, BIOL 313 General Zoology,  
ANSC 140 Principles of Animal Science; academic advisor's  
approval and junior or above standing**

**ANSC 449 SEMINAR - 3 semester hour**

Research and presentation of important literature related to the animal sciences. Areas of economic importance to the agricultural community will be emphasized.

**Prerequisites: BIOL 120 Principles of Biology, BIOL 313 General Zoology, ANSC  
140 Principles of Animal Science; academic advisor's approval  
and junior or above standing**

## AQUATIC SCIENCE

### **AQSC 201 INTRODUCTION TO AQUACULTURE - 3 semester hours**

Principles of sustainable aquatic production of plants and animals will be discussed. A survey of the history of aquaculture, including an overview of major aquaculture products in Virginia, the United States and abroad. Environmental considerations, alternative facilities, required inputs, marketing, and job opportunities will also be discussed. Field trips to aquaculture industry sites will be conducted.

### **AQSC 301 AQUATIC CULTURE SYSTEMS DESIGN - 3 semester hours**

Application of engineering principles to aquacultural production systems. Relationships between cultured organisms, management requirements, and facilities will be discussed. Emphasis will be on system designs for open, semi-closed, and closed aquatic systems.

### **AQSC 302 MANAGEMENT OF AQUATIC WEEDS - 3 semester hours**

The environments of algal, floating, immersed, and submersed weeds are examined. Impact of aquatic weeds on resource use is discussed. A comparison is made of preventive, chemical, biological, and mechanical control of aquatic weeds. Collection of characteristic aquatic weeds is required.

### **AQSC 401 FISH POND MANAGEMENT - 3 semester hours**

Techniques of pond management are explored with emphasis on aquatic production. Focus is on identification of standard and maintenance of environmental quality, the chemistry of water quality testing, and use of testing kits and devices. Pond safety and integration of aquatic environment with other uses are discussed. Hands-on field activities are incorporated into classroom discussions.

### **AQSC 402 FISH PATHOLOGY - 3 semester hours**

Prevention of fish health concerns is emphasized. Primary bacterial, parasitic and other fish pathogens are identified. Procedures for sample collection, preparation and analysis are presented. Practical laboratory techniques are performed.

**Prerequisites:** AQSC 201 Introduction to Aquaculture, BIOL 120 Principles of Biology, BIOL 241 Introduction to Microbiology, BIOL 313 General Zoology; junior or above standing

### **AQSC 404 LIMNOLOGY - 3 semester hours**

A study of inland waters – lakes (both freshwater and saline), reservoirs, rivers, streams, wetlands, and groundwater – as ecological systems interacting with their drainage basins and the atmosphere. An integration of the functional relationships of growth, adaptation, nutrient cycles, and biological productivity with species composition, and description and evaluation of how physical, chemical, and biological environments regulate these relationships.

### **AQSC 405 FISH BREEDING AND GENETICS - 3 semester hours**

An overview of the history of genetics and fish breeding will be presented. Emphasis is placed on aquacultural fish cultured in Virginia. Basic genetic principles are discussed as they apply to selected fish breeding programs.

**Prerequisites:** AQSC 201 Introduction to Aquaculture, BIOL 120 Principles of Biology, BIOL 313 General Zoology; junior or above standing

### **AQSC 406 SALMONIDS - 3 semester hours**

Focus is on an overview of salmonid fish and salmonid aquaculture in Virginia. Principles of salmonid aquaculture including spawning, incubation, feed formulation, disease control, genetics, systems management, harvesting, and marketing are presented. Class participates in practical rainbow trout culture exercises.

**Prerequisites:** AQSC 201 Introduction to Aquaculture, BIOL 120 Principles of Biology, BIOL 313 General Zoology; junior or above standing

**AQSC 407 FISH PROCESSING TECHNOLOGY - 3 semester hours**

Chemical and biological aspects of fishery products as related to the use of these products for human foods; principles of preservation; unit operation in processing, packaging, storage and distributions.

**Prerequisites:** AQSC 201 Introduction to Aquaculture, BIOL 120 Principles of Biology, BIOL 241 Introduction to Microbiology, BIOL 313 General Zoology, junior or above standing

**AQSC 408 AQUATIC RESOURCE BIOCHEMISTRY - 3 semester hours**

Occurrence, distribution, and role of carbohydrates, lipids, proteins, vitamins, nucleic acids, and other compounds in fish and other aquatic organisms. Topics include digestion, absorption, respiration, excretion, growth, reproduction, body fluids, general metabolism, intermediary metabolism, energy metabolism, and detoxification. Emphasis on biochemistry as it related to nutrition, fish and other aquatic organisms.

**Prerequisites:** CHEM 151 General Chemistry I  
CHEM 152 General Chemistry II; junior or above standing

**AQSC 409 AQUACULTURAL ECONOMICS - 3 semester hours**

Operation of hatcheries for the production of cold water and warm water food fish, game fish, and bait minnows; care of brood fish; methods of stocking, fertilizing, supplementary feeding; and related hatchery problems. Emphasis on spawning, rearing, harvesting and distribution.

**Prerequisites:** AGECE 142 Principles of Agricultural Economics; junior or above standing

**HORTICULTURE****HORT 340 LANDSCAPE DESIGN - 3 semester hours**

study of the principles of landscape as applied to schools, home grounds and public areas; the use of common plant material; practices in simple designs and drawings.

**HORT 350 VEGETABLE PRODUCTION - 3 semester hours**

A study of commercial vegetable production with special emphasis on sustainable approaches to produce, harvest and market different vegetable crops. Students are taught hands-on techniques for vegetable production and harvesting.

**Prerequisite:** A 100-level science course with a grade of C or higher.

**HORT 351 FRUIT PRODUCTION - 3 semester hours**

A study of the principles and practices underlying deciduous large fruit production--apples, pears, plums, peaches, cherries, and nuts--with special reference to temperature, moisture, nutrition, fruit seeding and pruning.

**HORT 352 PLANT MATERIALS I - 3 semester hours**

study and identification of perennials, biennials and annuals for ornamental planting and planting plans. Special emphasis will be on the flower and leaf as a means of identification.

**HORT 353 PLANT MATERIALS II - 3 semester hours**

A study and identification of trees, shrubs and vines for general ornamental planting. Planting plans, sketches and written reports required. Tree and shrub identification will be emphasized.

**HORT 440 THEORY OF LANDSCAPE DESIGN - 3 semester hours**

Economic and aesthetic theory of design, taste, character historic styles and composition; natural elements in design; planting design. Students will be required to use various theories in planting designs.

**HORT 444 COMMERCIAL FLORAL ARRANGEMENT - 3 semester hours**

Essentials of flower arrangement, the commercial flower shop; sources of supplies and sales. Emphasis will be on techniques, fundamental skills and methods used when creating modern commercial designs.

**HORT 446 GREENHOUSE CROPS AND MANAGEMENT - 3 semester hours**

Principles of greenhouse operation, propagation, ventilation, heating, watering, fumigation, soil sterilization and potting. Emphasis will be placed on practical application of several management procedures.

**HORT 448 PROBLEMS IN LANDSCAPE - 3 semester hours**

Investigations in landscape gardening by advanced students. Conferences and reports are required. Landscape designs and landscape plans will be a part of this course. Investigations must be modern problems of the landscape industry.

**HORT 449 PLANT PROPAGATION AND NURSERY PRACTICES - 3 semester hours**

Methods of propagating plants, nursery organization and techniques. Emphasis will be placed on a complete up-to-date coverage of all phases of plant propagation from a theoretical and an applied aspect.

**HORT 450 PROBLEMS IN HORTICULTURE - 3 semester hours**

Investigations in horticultural problems by advanced students. Conferences and reports are required. Investigations by students must be modern concerns of the horticultural industry.

**PLANT SCIENCE**

**PLSC 140 PRINCIPLES OF PLANT SCIENCE - 3 semester hours**

An in-depth study of the fundamentals of plant science, including basic principles of plant growth, culture, development, propagation and the relationship of the broad industry of agriculture to plant development.

**PLSC 250 INTRODUCTION TO NATURAL RESOURCES AND FORESTRY**

**3 semester hours**

A study of the fundamental concepts of natural resource management, including forestry, forest products, conservation, wildlife, and recreation. Critical natural resource issues will be emphasized, including biophysical and socioeconomic aspects, as well as careers that address these issues.

**Prerequisites: PLSC 140 Principles of Plant Science; sophomore or above standing**

**PLSC 341 FIELD CROPS PRODUCTION - 3 semester hours**

A study of the distribution, adaptation, cultural practices, and selection of the principal field crops. Special attention will be given to the identification and habitats of cereal crops, legumes and grasses.

**PLSC 345 ARBORICULTURE – 3 semester hours**

A study of the selection, planting, and care of trees. Special emphasis will be given to application in urban settings, such as the establishment and management of street trees and landscaped areas, and the many benefits that trees provide. The course will describe current management approaches utilized to maintain and protect existing trees. Students will develop theoretical and practical knowledge, allowing them to work on all aspects of tree care to diagnose and remedy major pests, diseases, and tree disorders to promote plant health.

**Prerequisite: PLSC 140 Principles of Plant Science or equivalent**

**PLSC 352 FORAGE CROPS AND PASTURE MANAGEMENT - 3 semester hours**

A study of the production and handling of leading forage crops, their relationship to the livestock industry and the maintenance of soil fertility. Special attention is given to hay and pasture management.

**PLSC 353 INTEGRATED PEST MANAGEMENT STRATEGIES - 3 semester hours**

A study of the combined use of biological, chemical, and cultural methods utilized to keep pest populations below accepted threshold levels. Special attention is given to pesticide applications, ecological/ environmental factors, residues, application equipment, and economical considerations.

**Prerequisites:** PLSC 140 Principles of Plant Science; sophomore or above standing

**PLSC 440 PLANT RESISTANCE TO INSECTS - 2 semester hours**

The study of mechanisms of plant resistance to insects' attack and the utilization of insect control by chemical and non-chemicals means. Special attention is given to factors related to the cause of resistance and methods of breeding insect restraint varieties of field and horticultural crops.

**Prerequisites:** Junior or above standing

**PLSC 441 PLANT PATHOLOGY - 4 semester hours**

A study of the nature, cause and control of plant diseases. This course will concentrate on disease of field, orchard and vegetable crops.

**Prerequisites:** PLSC 140 Principles of Plant Science; junior or above standing

**PLSC 442 PROBLEMS IN PLANT SCIENCE - 3 semester hours**

This course is designed for advanced students to work independently on problems relating to genetics and physiology of horticulture and field crops. The problem studied must be one of modern concern to the plant science industry.

**Prerequisites:** Junior or above standing

**PLSC 444 GENETICS - 3 semester hours**

An in-depth study of the fundamental principles, mechanisms, and heredity of plants and animals. Emphasis will be placed on genetic engineering and gene transfer of crops and animals.

**PLSC 445 ECONOMIC ENTOMOLOGY - 3 semester hours**

A study of the classification, structure, description, habits of the principal insects and the methods of control. Student will also become familiar with the economic benefits and importance of insects to humans.

**Prerequisites:** BIOL 120 Principles of Modern Biology, GEC 142 Principles of Agricultural Economics and BIOL 313 General Zoology or equivalent

**PLSC 446 PLANT PHYSIOLOGY - 4 semester hours**

A study of the plant cell, solutions, and membranes in relation to the cell root systems. Emphasis will be placed on the plant cell response to the intake of water, intake of solutes, induced elements, and the loss of water.

**Prerequisites:** PLSC 140 Principles of Plant Science, junior or above standing

**PLSC 448 PLANT BREEDING - 3 semester hours**

A study of the application of genetics and simple biometric constants to the breeding of field and horticultural crops. The history and creation of plant transformation will be emphasized.

**Prerequisite:** PLSC 444 Genetics; academic advisor's approval and junior or above standing

**PLSC 452 URBAN NATURAL RESOURCE MANAGEMENT - 3 semester hours**

An overview of the ecosystem services provided by urban and suburban trees and green space, as well as methods to evaluate and manage potential benefits, risks, and costs. The course will include a study of the social needs and values of urban ecosystems; urban forest resource inventories; tree and vegetation ordinances; the development, financing, and management of urban forestry programs; and community involvement, public relations, and urban forestry education programs.

**Prerequisite:** PLSC 250 Introduction to Natural Resources and Forestry

**PLSC 454 SPECIAL TOPICS IN CROP SCIENCE - 3 semester hours**

Selected topics for advanced student dealing with current issues in crop science. Special emphasis is placed on modern crop production problems.

**Prerequisites:** Junior or above standing

**PLSC 455 TURF MANAGEMENT - 3 semester hours**

A study of turf grasses and their growth requirements, including the various turf operations, equipment needs, materials and work programs designed for the efficient maintenance of turf as related to specific uses

## SOIL SCIENCE

### **SOSC 242 SOIL SCIENCE - 4 semester hours**

An introduction to principles of soil science: Introduces fundamental physical, chemical and biological properties of soils, their formation, classification, distribution, productivity, and conservation. It reinforces class lectures with field trips and laboratory exercises.

**Prerequisite:** CHEM 151 General Chemistry

### **SOSC 344 SOIL MANAGEMENT AND CONSERVATION - 3 semester hours**

This course will emphasize soil resources of the United States and methods and plans for soil conservation, including control of erosion, the effects of climatic factors, vegetation, soil properties and other management practices on soil conservation and fertility maintenance.

**Prerequisites:** SOSC 242 Principles of Soil Science and CHEM 151 General Chemistry

### **SOSC 345 SOIL FERTILITY AND FERTILIZERS - 4 semester hours**

Provides an assessment of soil fertility and the alteration of fertility by use of fertilizers, lime, manure, and cropping systems. The role of colloids in ion fixation and exchange is addressed. Calculations for cation exchange capacity; fertilizer, lime, and manure applications in the field are emphasized. The history, technology and use of fertilizers and their importance to the abatement of world famine and malnutrition are discussed.

**Prerequisites:** SOSC 242 Principles of Soil Science and CHEM 151 General Chemistry

### **SOSC 347 SOIL CLASSIFICATION - 3 semester hours**

An overview of soil taxonomy; how soils are grouped and organized based on their properties. Descriptions of pedons in the field, their formation, distribution, classification, and use are described.

**Prerequisites:** SOSC 242 Principles of Soil Science and CHEM 151 General Chemistry I

### **SOSC 450 PROBLEMS IN SOIL SCIENCE - 3 semester hours**

Individual study or research on soil or land-use problems. Study of local, regional, national, and world problems related to soils, remedies and reuse after reclamation.

**Prerequisites:** SOSC 347 Soil Classification; junior and above standing

### **SOSC 455 WORLD SOIL RESOURCES - 3 semester hours**

A study of properties of soils, world soil geography, classification, present and potential productivity of soils in various continents, and factors influencing their utilization.

**Prerequisites:** SOSC 347 Soil Classification, junior and above standing

## ENVIRONMENTAL SCIENCE

### **AGRI 150 INTRODUCTION TO ENVIRONMENTAL SCIENCE - 4 semester hours**

Introduces the principles and basic facts of the natural environment. The course will focus on land forms, vegetation and soils, air and water pollution, water quality monitoring, acid rain, the greenhouse effect, biodiversity, sustainability, and global change. Emphasis is placed on the application of basic science to the understanding and mitigation of current environmental problems. Course format demonstrates how the environment works and how the human use of resources perturbs the environment, citizen action for past, present, and future decisions. A laboratory is taken in conjunction and provides hands on laboratory exercises related to selected lecture topics.

### **AGRI 280 PRINCIPLES OF GEOGRAPHIC INFORMATION SYSTEMS - 3 semester hours**

The course is designed to introduce students to the fundamental Principles of Geographic Information Systems (GIS). The course provides students with a general view of the applications of GIS in a host of disciplines, an exposure to geographic data structures, and an understanding of computerized spatial display and analysis. Special emphasis will be placed on natural resource management, including agriculture and environment. The course is recommended for juniors and seniors from any discipline and will involve instruction, discussion on assigned topics, hands-on activities using GIS software programs, and field trips.

**AGRI 290 INTRODUCTION TO REMOTE SENSING - 3 semester hours**

The course will introduce students to the fundamental concepts and applications of remote sensing in the areas of agriculture, biological, computer, political, and social sciences, and engineering. To complement classroom instruction, there will be extensive hands-on exercises based on computer software dedicated to remote sensing and integrating it in GIS. Field trips will be organized to visit governmental agencies or institutions where remote sensing is being done.

**Prerequisites:** AGRI 280 Principles of Geographic Information System

**AGRI 350 CLIMATE CHANGE AND ADAPTATION SCIENCES - 3 semester hours**

This course explores the science of climate change through evidence for changes in global atmospheric circulation, water, heat, and heat transfer, air/sea interactions, global water cycle, ocean temperature, sea level and acidity due to global warming changes. Students will learn how the climate system works; what factors cause climate to change across different time scales and how those factors interact; how climate has changed in the past; how scientists use models, observations and theory to make predictions about future climate; and the possible consequences of climate change for our planet. Finally, the course looks at the connection between human activity and the current warming trend and considers some of the potential social, economic and environmental consequences of climate change.

**DEPARTMENT OF AGRICULTURE**  
**AGRICULTURE MAJOR**  
**Agriculture Business and Economics Concentration**  
**Bachelor of Science Degree**

		Semester Hours			
		1st Sem	2nd Sem	Total Hours	
<b>FRESHMAN YEAR</b>					
ENGL 110, 111	Composition I and II	3	3	6	
MATH 120, 121	College Algebra and Trigonometry I and II	3	3	6	
AGEC 142, 143	Principles of Agriculture Economics I and II	3	3	6	
AGRI 140	Introduction to Sustainable Agriculture & Society	3	-	3	
BIOL 120	Principles of Biology I and Lab	4	-	4	
HPER 170	Health and Wellness	-	2	2	
AGRI 150	Environmental Science and Lab	-	4	4	
ANSC 140	Principles of Animal Science	-	3	3	
<b>Totals</b>		<b>16</b>	<b>18</b>	<b>34</b>	
<b>SOPHOMORE YEAR</b>					
ACCT 200	Intro to Fin & Managerial Accounting	3	-	3	
ECON 210	Principles of Microeconomics	3	-	3	
CHEM 151, 153	General Chemistry I and Lab	4	-	4	
PLSC 140	Principles of Plant Science and Lab	3	-	3	
POLI 150	United States Government	3	-	3	
ENGL 201/214	Literature Elective	-	3	3	
SPEE 214	Introduction to Public Speaking	-	3	3	
STAT 210	Elementary Statistics	-	3	3	
AGRI 280	Principles of Geographic Info Systems	-	3	3	
AQSC 201	Introduction to Aquaculture	-	3	3	
<b>Totals</b>		<b>16</b>	<b>15</b>	<b>31</b>	
<b>JUNIOR YEAR</b>					
ECON 310, 320	Microeconomics and Macroeconomics	3	3	6	
AGRI 295	Contemporary Global Studies	3	-	3	
AGEC 344	Agriculture Financial Mgmt I	3	-	3	
ECON 330	Econometrics	-	3	3	
SOSC 242	Soil Science and Lab	4	-	4	
MGMT 371	Business Law	-	3	3	
AGEC 346	Farm Management	3	-	3	
AGME 242	Principles of Ag Engineering	-	3	3	
AGEC 340	Agriculture Entrepreneurship	-	3	3	
<b>Totals</b>		<b>16</b>	<b>15</b>	<b>31</b>	
<b>SENIOR YEAR</b>					
AGEC 447	Agriculture Marketing	3	-	3	
AGEC 443	Financial Management in Agriculture II	3	-	3	
AGRI 341	Research Methods in Agriculture	3	-	3	
_____	Agriculture Elective	3	-	3	
_____	Humanities Elective	-	3	3	
AGEC 441	Management of Agribusiness Firms	-	3	3	
AGEC 444	Agriculture Policy	-	3	3	
_____	Agriculture Elective	-	3	3	
<b>Total hours required for graduation – 120</b>		<b>Totals</b>	<b>12</b>	<b>12</b>	<b>24</b>

**Agriculture Electives**

AGRI 400	-	Internship (3)	ANSC242	-	Poultry Production (3)
AGRI 401	-	Independent Study (3)	ANSC344	-	Beef/Cattle Production (3)
PLSC 250	-	Intro to Natural Resources & Forestry FoFOFF (3)			
PLSC ____		Field Crop Production (3)			
HIST 122/123	-	United States History I/II (3)			
PHIL 180	-	Critical Thinking (3)			
PHIL 290	-	Business Ethics (3)			
ENGL ____	-	Literature Elective (3)			
	-	Language Elective (3)			

**DEPARTMENT OF AGRICULTURE  
AGRICULTURE MAJOR  
Agriculture Education Concentration  
Bachelor of Science Degree**

		<b>Semester Hours</b>		
		<b>1st Sem</b>	<b>2nd Sem</b>	<b>Total Hours</b>
<b>FRESHMAN YEAR</b>				
IDST 100, 101	Analytical Reading, Writing and Reasoning I, II	2*	2*	4*
ENGL 110, 111	Composition I and II	3	3	6
MATH 120, 121	College Algebra and Trigonometry I and II	3	3	6
BIOL 120	Principles of Biology I and Lab	-	4	4
AGEC 142	Principles of Agricultural Economics	3	-	3
ANSC 140	Principles of Animal Science	-	3	3
AGRI 150	Introduction to Environmental Science and Lab	4	-	4
HPER 170	Health and Wellness	-	2	2
AGRI 140	Introduction to Sustainable Agriculture and Society	3	-	3
<b>Totals</b>		<b>16</b>	<b>15</b>	<b>31</b>
<b>SOPHOMORE YEAR</b>				
PLSC 140	Principles of Plant Science and Lab	3	-	3
CHEM 151, 153	General Chemistry I and Lab	-	4	4
EDUC 201, 202	Introduction to Teaching I, II	2	2	4
IDST 200	Digital Media in Teacher Education	3	-	3
ENGL 201/202	Literature Elective	3	-	3
SPEE 214	Introduction to Public Speaking	3	-	3
AGME 242	Introduction to Agricultural Engineering	-	3	3
SOSC 242	Soil Science and Lab	-	4	4
_____	Humanities Elective	3	-	3
PHIL 180	Critical Thinking	-	3	3
<b>Totals</b>		<b>17</b>	<b>16</b>	<b>33</b>
<b>JUNIOR YEAR</b>				
AGME 140	Agriculture Mechanics	2	-	2
POLI 150	United States Government	-	3	3
PSYC 212	Human Growth and Development	-	3	3
AGRI 240	Leadership and Organizational Management	3	-	3
EDUC 315	Data Driven Instructional Design	3	-	3
AGRI 342	Methods in Teaching Agriculture	-	3	3
AGRI 343	Principles and Practices of Agricultural Ed.	3	-	3
SPED 403	Classroom Mgmt in Educational Settings (FB)	-	3	3
EDUC 424	Critical Issues in Education	-	2	2
EDUC 427	Reading in the Subject Area	3	-	3
_____	Agriculture Elective	3	-	3
AGRI 295	Contemporary Global Studies	-	3	3
<b>Totals</b>		<b>17</b>	<b>17</b>	<b>34</b>
<b>SENIOR YEAR</b>				
EDUC 401	Student Teaching Seminar	-	3	3
AGRI 402	Student Teaching in Agriculture	-	3	3
EDUC 402	Student Teaching	-	9	9
_____	Agric Elective	3	-	3
_____	Agriculture Elective	3	-	3
_____	Agriculture Elective	3	-	3
<b>Totals</b>		<b>9</b>	<b>15</b>	<b>24</b>
<b>Total hours required for graduation – 122</b>				

**\*IDST 100, 101 are not counted in semester hours or toward graduation requirements.**

**Agriculture Electives**

AGRI 280	-	Principles of Geographic Information Systems (3)
AGRI 350	-	Climate Change and Adaptation Sciences (3)
AGRI 400	-	Internship (3)
AGRI 401	-	Independent Study (3)
PLSC 250	-	Introduction to Natural Resources and Forestry (3)
PLSC 341	-	Field Crops Production (3)

**DEPARTMENT OF AGRICULTURE AGRICULTURE MAJOR**  
**Animal Science Concentration Bachelor of Science Degree**

		<b>1st Sem</b>	<b>2nd Sem</b>	<b>Total Hours</b>
<b>FRESHMAN YEAR</b>				
ENGL 110, 111	Composition I and II	3	3	6
MATH 120, 121	College Algebra and Trigonometry I and II	3	3	6
BIOL 120	Principles of Biology I and Lab	4	-	4
BIOL 121	Principles of Biology II and Lab	-	4	4
AGRI 140	Introduction to Sustainable Ag and Society	3	-	3
ANSC 140	Principles of Animal Science	-	3	3
HPER 170	Health and Wellness	-	2	2
PSYC 101	Introduction to Psychology	3	-	3
POLI 150	United States Government	-	3	3
<b>Totals</b>		<b>16</b>	<b>18</b>	<b>34</b>
<b>SOPHOMORE YEAR</b>				
PLSC 140	Principles of Plant Science and Lab	3	-	3
AGEC 142	Principles of Agricultural Economics I	3	-	3
CHEM 151, 153	General Chemistry I and Lab	4	-	4
CHEM 152, 154	General Chemistry II and Lab	-	4	4
SPEE 214	Introduction to Public Speaking	3	-	3
BIOL 241	Introduction to Microbiology and Lab	-	4	4
ANSC 242	Principles of Poultry Production	-	3	3
AGRI 295	Contemporary Global Studies	-	3	3
AGME 242	Introduction to Agricultural Engineering	-	3	3
AGRI 280	Principles of Geographic Information	3	-	3
<b>Totals</b>		<b>16</b>	<b>17</b>	<b>33</b>
<b>JUNIOR YEAR</b>				
PHYS 105	Introduction to Physics I	4	-	4
SOSC 242	Soil Science and Lab	4	-	4
ENGL 201/202	Literature Elective	-	3	3
CHEM 305, 307	Organic Chemistry I and Lab	4	-	4
ANSC 344	Beef Cattle Production	-	3	3
ANSC 346	Physiology of Reproduction	-	3	3
ANSC 349	Veterinary Hygiene	3	-	3
_____	ANSC Elective	3	-	3
_____	ANSC Elective	-	3	3
<b>Totals</b>		<b>15</b>	<b>15</b>	<b>30</b>
<b>SENIOR YEAR</b>				
ANSC 345	Veterinary Anatomy and Physiology	3	-	3
AQSC 405	Fish Breeding and Genetics	-	3	3
ANSC 441	Animal Nutrition	3	-	3
BIOL 313	Zoology	3	-	3
ANSC 448	Advanced Livestock Production	-	3	3
_____	ANSC Elective	-	3	3
_____	Restricted Elective	3	-	3
_____	Elective	-	3	3
<b>Totals</b>		<b>12</b>	<b>12</b>	<b>24</b>

**Total hours required for graduation - 121**

**ANSC Electives**

- ANSC 246 - Equine Science (3)
- ANSC 343 - Swine Production (3)
- ANSC 348 - Farm Dairying (3)
- ANSC 351 - Feeds and Feeding (3)
- ANSC 446 - Special Topics (3)

**Restricted Electives**

- AGRI 400 - Internship (3)
- AGRI 401 - Independent Study (3)
- ANCS 449 - Seminar (3)

**DEPARTMENT OF AGRICULTURE  
AGRICULTURE MAJOR  
Animal Science and Pre-Veterinary Medicine Concentration  
Bachelor of Science Degree**

		Semester Hours		
		1st Sem	2nd Sem	Total Hours
<b>FRESHMAN YEAR</b>				
ENGL 110, 111	Composition I and II	3	3	6
MATH 120,121	College Algebra and Trigonometry I and II	3	3	6
AGRI 140	Introduction to Sustainable Ag and Society	3	-	3
ANSC 140	Principles of Animal Science	-	3	3
PLSC 140	Principles of Plant Science and Lab	3	-	3
BIOL 120	Principles of Biology I and Lab	4	-	4
BIOL 121	Principles of Biology II and Lab	-	4	4
POLI 150	United States Government	-	3	3
<b>Totals</b>		<b>16</b>	<b>16</b>	<b>32</b>
<b>SOPHOMORE YEAR</b>				
AGEC 142	Principles of Agricultural Economics I	3	-	3
CHEM 151, 153	General Chemistry I and Lab	4	-	4
CHEM 152, 154	General Chemistry II and Lab	-	4	4
PSYC 101	Introduction to Psychology	-	3	3
HPER 170	Health and Wellness	2	-	2
SPEE 214	Introduction to Public Speaking	-	3	3
BIOL 241	Introduction to Microbiology and Lab	-	4	4
AGRI 280	Principles of Geographic Info Systems	3	-	3
ANSC 242	Principles of Poultry Production	3	-	3
AGRI 295	Contemporary Global Studies	-	3	3
<b>Totals</b>		<b>15</b>	<b>17</b>	<b>32</b>
<b>JUNIOR YEAR</b>				
PHYS 105	Intro to Physics I and Lab	4	-	4
PHYS 106	Intro to Physics II and Lab	-	4	4
SOSC 242	Soil Science and Lab	4	-	4
CHEM 305, 307	Organic Chemistry I and Lab	4	-	4
CHEM 306, 308	Organic Chemistry II and Lab	-	4	4
ENGL 201/214	Literature Elective	-	3	3
ANSC 346	Physiology of Reproduction	-	3	3
ANSC 349	Veterinary Hygiene	3	-	3
<b>Totals</b>		<b>15</b>	<b>14</b>	<b>29</b>
<b>SENIOR YEAR</b>				
ANSC 345	Veterinary Anatomy and Physiology	3	-	3
BIOL 313	General Zoology and Lab	4	-	4
BIOL 415	Histology and Lab	-	4	4
CHEM 422	Biochemistry and Lab	4	-	4
AQSC 405	Fish Breeding and Genetics	-	3	3
ANSC 441	Animal Nutrition	-	3	3
_____	ANSC Elective	3	-	3
_____	Restricted Elective	-	3	3
<b>Totals</b>		<b>14</b>	<b>13</b>	<b>27</b>

**Total hours required for graduation - 120**

**ANSC Electives:**

- ANSC 246 – Equine Science (3)
- ANSC 344 – Beef Cattle Production (3)
- ANSC 351 – Feeds and Feeding (3)
- ANSC 446 – Special Topics (3)
- ANSC 447 – Special Problems (3)
- ANSC 448 – Advanced Livestock Production (3)

**Restricted Electives:**

- AGRI 400 - Internship (3)
- AGRI 401 - Independent Study (3)
- ANSC 449 – Seminar (3)
- MATH 200 - Calculus I (3)
- STAT 210 – Elementary Statistics (3)

**DEPARTMENT OF AGRICULTURE  
AGRICULTURE MAJOR  
Aquatic Science Concentration  
Bachelor of Science Degree**

		<b>1st Sem</b>	<b>2nd Sem</b>	<b>Total Hours</b>
<b>FRESHMAN YEAR</b>				
ENGL 110, 111	Composition I and II	3	3	6
MATH 120, 121	College Algebra and Trigonometry I and II	3	3	6
BIOL 120	Principles of Biology I and Lab	4	-	4
AGRI 140	Introduction to Sustainable Ag and Society	3	-	3
PLSC 140	Principles of Plant Science and Lab	3	-	3
BIOL 121	Principles of Biology II and Lab II	-	4	4
AQSC 201	Introduction to Aquaculture	-	3	3
ANSC 140	Principles of Animal Science	-	3	3
HPER 170	Health and Wellness	-	2	2
		<b>Totals</b>	<b>16</b>	<b>18</b>
			<b>18</b>	<b>34</b>
<b>SOPHOMORE YEAR</b>				
AGRI 150	Intro to Environmental Science and Lab	4	-	4
AGEC 142	Principles of Agricultural Economics I	3	-	3
AQSC 301	Aquatic Culture Systems Design	3	-	3
CHEM 151, 153	General Chemistry I and Lab	4	-	4
CHEM 152, 154	General Chemistry II and Lab	-	4	4
AQSC 302	Management of Aquatic Weeds	-	3	3
BIOL 241	Introduction to Microbiology and Lab	-	4	4
AGRI 280	Principles of Geographic Info Systems	-	3	3
AGRI 295	Contemporary Global Studies	-	3	3
		<b>Totals</b>	<b>14</b>	<b>17</b>
			<b>17</b>	<b>31</b>
<b>JUNIOR YEAR</b>				
SOSC 242	Soil Science and Lab	4	-	4
POLI 150	United States Government	3	-	3
PSYC 101	Introduction to Psychology	3	-	3
AQSC 401	Fish Pond Management	3	-	3
	Restricted Elective	3	-	3
AQSC 405	Fish Breeding and Genetics	-	3	3
PHYS 105	General Physics I and Lab	-	4	4
AGME 242	Introduction to Ag Engineering	-	3	3
SPEE 214	Introduction to Public Speaking	-	3	3
	Restricted Elective	-	3	3
		<b>Totals</b>	<b>16</b>	<b>16</b>
			<b>16</b>	<b>32</b>
<b>SENIOR YEAR</b>				
CHEM 305, 307	Organic Chemistry I and Lab	4	-	4
ANSC 345	Veterinary Anatomy and Physiology	3	-	3
	AQSC Elective	3	-	3
	Restricted Elective	3	-	3
ENGL 201/202	Literature Elective	-	3	3
ANSC 441	Animal Nutrition	-	3	3
	AQSC Elective	-	3	3
	Restricted Elective	-	3	3
		<b>Totals</b>	<b>13</b>	<b>25</b>
			<b>12</b>	<b>25</b>

**Total hours required for graduation - 122**

**AQSC Electives**

AQSC 402	-	Fish Pathology (3)
AQSC 406	-	Salmonids (3)
AQSC 407	-	Fish Processing Technology (3)
ASQC 408	-	Aquatic Resource Biochemistry (3)
AQSC 409	-	Aquaculture Economics (3)

**Restricted Electives**

ANSC 351	-	Feeds and Feeding
AGRI 400	-	Internship (3)
AGRI 401	-	Independent Study (3)
ANCS 449	-	Seminar (3)
STAT 210	-	Elementary Statistics (3)

**DEPARTMENT OF AGRICULTURE  
AGRICULTURE MAJOR  
Environmental Science Concentration  
Bachelor of Science Degree**

		<b>Semester Hours</b>		
		<b>1st</b>	<b>2nd</b>	<b>Total</b>
		<b>Sem</b>	<b>Sem</b>	<b>Hours</b>
<b>FRESHMAN YEAR</b>				
ENGL 110, 111	Composition I and II	3	3	6
MATH 120, 121	College Algebra and Trigonometry I and II	3	3	6
AGRI 140	Introduction to Sustainable Ag and Society	3	-	3
PLSC 140	Principles of Plant Science and Lab	3	-	3
BIOL 120	Principles of Biology I and Lab	4	-	4
BIOL 121	Principles of Biology II and Lab	-	4	4
AGRI 150	Intro to Environmental Science and Lab	-	4	4
ANSC 140	Principles of Animal Science	-	3	3
<b>Totals</b>		<b>16</b>	<b>17</b>	<b>33</b>
<b>SOPHOMORE YEAR</b>				
CHEM 151, 153	General Chemistry I and Lab	4	-	4
PHYS 105	Introduction to Physics I and Lab	4	-	4
POLI 150	United States Government	3	-	3
AGEC 142	Principles of Agricultural Economics I	3	-	3
SPEE 214	Introduction to Public Speaking	3	-	3
CHEM 152, 154	General Chemistry II and Lab	-	4	4
HPER170	Health and Wellness	-	2	2
AGME 242	Introduction to Agricultural Engineering	-	3	3
BIOL 241	Introduction to Microbiology and Lab	-	4	4
AGRI 280	Principles of Geographic Information Systems	-	3	3
<b>Totals</b>		<b>17</b>	<b>16</b>	<b>33</b>
<b>JUNIOR YEAR</b>				
ECON 210	Principles of Microeconomics	3	-	3
SOSC 242	Soil Science and Lab	4	-	4
CHEM 305, 307	Organic Chemistry I and Lab	4	-	4
_____	Scientific Elective	3	-	3
STAT 210	Elementary Statistics	-	3	3
AGRI 341	Research Methods in Agriculture	-	3	3
AGRI 295	Contemporary Global Studies	-	3	3
ENGL 201/202	Literature Elective	-	3	3
SOSC 345	Soil Fertility and Fertilizers	-	4	4
<b>Totals</b>		<b>14</b>	<b>16</b>	<b>30</b>
<b>SENIOR YEAR</b>				
BIOL 324	Ecology and Lab	4	-	4
PADM 401	Energy and Environ Law and Admin	3	-	3
AGRI 400/401	Internship/Independent Study	3	-	3
SOSC _____	Soil Science Elective	3	-	3
AQSC 404	Limnology	-	3	3
PLSC 444	Genetics	-	3	3
AGEC/PADM	Policy Elective	-	3	3
_____	Scientific Elective	-	3	3
<b>Totals</b>		<b>13</b>	<b>12</b>	<b>25</b>

**Total hours required for graduation – 121**

**Scientific Electives**

AGRI 290	-	Introduction to Remote Sensing
AGRI 350	-	Climate Change and Adaptation Sciences
PLSC 250	-	Introduction to Natural Resources and Forestry
PLSC 353	-	Integrated Pest Mgmt Strategies
AGEC 446	-	Land Economics
PLSC 250	-	Introduction to Natural Resources and Forestry
PLSC 452	-	Urban Natural Resource Management

**Soil Science Electives**

SOSC 347	-	Soil Classification
SOSC 450	-	Problems in Soil Science
SOSC 455	-	World Soil Resources

**Policy Electives**

AGEC 444	-	Agricultural Policy
AGEC 446	-	Land Economics
PADM 403	-	Land Use Law and Policy

**DEPARTMENT OF AGRICULTURE  
AGRICULTURE MAJOR  
Plant and Soil Science Concentration  
Bachelor of Science Degree**

		<b>Semester Hours</b>		
		<b>1st</b>	<b>2nd</b>	<b>Total</b>
		<b>Sem</b>	<b>Sem</b>	<b>Hours</b>
<b>FRESHMAN YEAR</b>				
ENGL 110, 111	Composition I and II	3	3	6
MATH 120, 121	College Algebra and Trigonometry I & II	4	3	7
AGRI 140	Introduction to Sustainable Agriculture & Society	2	-	2
PLSC 140	Principles of Plant Science and Lab	3	-	3
BIOL 120	Principles of Biology I and Lab	4	-	4
BIOL 121	Principles of Biology II and Lab	-	4	4
ANSC 140	Principles of Animal Science	-	3	3
POLI 150	United States Government	-	3	3
<b>Totals</b>		<b>16</b>	<b>16</b>	<b>32</b>
<b>SOPHOMORE YEAR</b>				
CHEM 151, 153	General Chemistry I and Lab	4	-	4
PHYS 105	Introduction to Physics I and Lab	4	-	4
AGEC 142	Principles of Agriculture Economics I	3	-	3
AGME 242	Introduction to Agricultural Engineering	3	-	3
HPER170	Health and Wellness	2	-	2
CHEM 152, 154	General Chemistry II and Lab	-	4	4
BIOL 241	Introduction to Microbiology and Lab	-	4	4
SPEE 214	Introduction to Public Speaking	-	3	3
AGRI 280	Principles of Geographic Information Systems	-	3	3
<b>Totals</b>		<b>16</b>	<b>14</b>	<b>30</b>
<b>JUNIOR YEAR</b>				
CHEM 305, 307	Organic Chemistry I and Lab	4	-	4
ECON 210	Principles of Microeconomics	3	-	3
SOSC 242	Soils Science & Labs	4	-	4
AGRI 295	Contemporary Global Studies	3	-	3
STAT 210	Statistics	3	-	3
ENGL 201/202	Literature	-	3	3
SOSC 345	Soil Fertility and Fertilizers	-	4	4
SOSC 347	Soil Classification	-	3	3
PLSC 353	Integrated Pest Mgmt Strategies	-	3	3
PLSC 250	Introduction to Natural Resources & Forestry	-	3	3
<b>Totals</b>		<b>17</b>	<b>16</b>	<b>33</b>
<b>SENIOR YEAR</b>				
PLSC 341	Field Crops Production	3	-	3
PLSC 352	Forage Crops & Pasture Management	3	-	3
HORT 449	Plant Propagation & Nursery Practices	3	-	3
	Scientific Elective	3	-	3
AGRI 400/401	Internship/Independent Study	3	-	3
AGRI 341	Research Methods in Agriculture	-	3	3
SOSC 450	Problems in Soil Science	-	3	3
PLSC 444	Genetics	-	3	3
	Scientific Elective	-	3	3
<b>Totals</b>		<b>15</b>	<b>12</b>	<b>27</b>

**Total hours required for graduation – 122**

***Scientific Electives***

HORT 350	-	Vegetable Production
HORT 446	-	Greenhouse Crops and Management
PLSC 250	-	Introduction to Natural Resources and Forestry
PLSC 345	-	Arboriculture
PLSC 452	-	Urban Natural Resource Management
PLSC 454	-	Special Topics in Crop Science
SOSC 455	-	World Soil Resources

Substitutions must be approved by College Dean and Department Chair

**DEPARTMENT OF AGRICULTURE  
GRADUATION REQUIREMENTS  
SUMMARY**

<b>SUBJECT AREA</b>	<b>HOURS</b>
<b>General Education Courses</b>	<b>33-39</b>
<b>Major Requirements</b>	<b>40-51</b>
<b>Core Requirements</b>	<b>30-33</b>
<b>Electives</b>	<b>6-15</b>
<b>TOTAL DEGREE HOURS REQUIRED</b>	<b>120-122</b>

**Electives:**

***Science***

AGRI 150	Introduction to Environmental Science and Lab
BIOL 120	Principles of Biology I and Lab
CHEM 151, 153	General Chemistry I and Lab

***History***

POLI 150	United States Government
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***Social Science***

ECON 210	Principles of Microeconomics
PSYC 101	Introduction to Psychology
PSYC 212	Human Growth and Development

***Literature***

ENGL 201	Introduction to Literature
ENGL 202	Introduction to African American Literature

***Global Studies***

AGRI 295	Contemporary Global Studies
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***Wellness/Health***

HPER 170	Health and Wellness
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## GENERAL EDUCATION REQUIREMENTS FOR B.S. DEGREE

<b>HISTORY</b>		Semester Hours
POLI 150	United States Government	3
<b>HUMANITIES</b>		Semester Hours
FREN 110/111/212/213	Elementary/Intermediate French I, II	3
HIST 122	US History I	3
HIST 123	US History II	3
GERM 110/111/212/213	Elementary/Intermediate German I, II	3
PHIL 180	Critical Thinking	3
PHIL 290	Business Ethics	3
SPAN 110/111/212/213	Elementary/Intermediate Spanish I, II	3
SPEE 214	Introduction to Public Speaking	3
<b>GLOBAL STUDIES</b>		Semester Hours
AGRI 295	Contemporary Global Studies	3
<b>ENGLISH</b>		Semester Hours
ENGL 110 and 111	Composition I and II	6
ENGL 201	Introduction to Literature	3
ENGL 202	Introduction to African American Literature	3
<b>WELLNESS/HEALTH</b>		Semester Hours
HPER 170	Health and Wellness	2
<b>GLOBAL STUDIES</b>		Semester Hours
AGRI 295	Contemporary Global Studies	3
<b>MATH</b>		Semester Hours
MATH 120	College Algebra and Trigonometry I	3
MATH 121	College Algebra and Trigonometry II	3
MATH 200	Calculus I	3
STAT 210	Elementary Statistics	3
<b>SOCIAL SCIENCE</b>		Semester Hours
ECON 210	Principles of Microeconomics	3
PSYC 101	Introduction to Psychology	3
PSYC 212	Human Growth and Development	3
<b>SCIENCE</b>		Semester Hours
BIOL 120	Principles of Biology I and Lab	4
<b>SOCIAL SCIENCE</b>		Semester Hours
ECON 210	Principles of Microeconomics	3
PSYC 101	Introduction to Psychology	3
PSYC 212	Human Growth and Development	3
<b>SCIENCE</b>		Semester Hours
BIOL 120	Principles of Biology I and Lab	4

### TOTAL REQUIREMENTS SEMESTER HOURS: 85

*A single course may simultaneously fulfill a general education requirement and a departmental or major/minor requirement. A single course cannot be used to fulfill more than one general education requirement. Department or major/minor areas may opt to exceed the minimum credit hour requirements above.*

### CORE REQUIREMENTS FOR B.S. DEGREE

		<b>Semester Hours</b>	<b>All or Some Concentrations</b>
AGRI 140	Introduction to Sustainable Agriculture & Society	3	All
AGRI 150	Introduction to Environmental Science & Lab	4	Some
AGRI 240	Leadership and Organizational Management	3	Some
AGRI 280	Principles of Geographic Information Systems	3	Some
AGRI 341	Research Methods in Agriculture	3	Some
AGEC 142	Principles of Agricultural Economics I	3	All
AGEC 444	Agriculture Policy	3	Some
AGME 242	Introduction to Agricultural Engineering	3	Some
ANSC 140	Principles of Animal Science & Lab	3	All
AQSC 201	Introduction to Aquaculture	3	Some
AQSC 404	Limnology	3	Some
CHEM 152, 154	General Chemistry II & Lab	4	Some
PLSC 140	Principles of Plant Science & Lab	3	All
PLSC 444	Genetics	3	Some
SOSC 242	Soil Science & Lab	4	All

**TOTAL REQUIRED CORE COURSE SEMESTER HOURS: 30-33**

## DEPARTMENT OF FAMILY AND CONSUMER SCIENCE

**Chairperson:** Alice Joyner,  
Gandy Hall, Room 215  
(804) 524-5761

**Associate Professor:** Badiyyah Waajid, Patricia A. Lynch

**Assistant Professor:** Dana Legette-Traylor, Crystal Wynn

### **Description of Department:**

The Department of Family and Consumer Sciences offers programs leading to the Bachelor of Science (B.S.) in Family and Consumer Science with the following four areas of focus: Dietetics (Accreditation Council for Education in Nutrition and Dietetics - ACEND accredited); Family, Child and Community Services, (FCCS); Teacher Education Endorsement; and Textiles Apparel, Merchandising and Management (TAMM). A post-baccalaureate non-degree, non-credit ACEND accredited Dietetic Internship program is also offered and provides eligibility to take the national Registered Dietitian (RD) Examination. The Teacher Education Endorsement meets the requirements of the Virginia Department of Education. It focuses on preparing students for careers as teachers and employment in business, industry, and governmental agencies.

### **Areas of Focus:**

#### **Concentrations**

- Dietetics (Didactic Program in Dietetics)
- Dietetics Internship
- Family, Child and Community Services
- Teacher Education Endorsement
- Textiles Apparel, Merchandising and Management

### **Minor:**

The Minor in Textile, Apparel, and Merchandising Management (TAMM) is open to students from other majors and is designed to provide a useful overview of the concentration and will enhance awareness regarding various fundamental aspects of the textile, apparel and merchandising management field. The additional investment in time will be an asset to a student graduating with a liberal arts or business degree and can be tailored towards their area of specific interest within the field.

### **The Program:**

The Didactic Program in Dietetics (DPD) is a concentration under the B.S. in Family and Consumers Science. The DPD is designed to provide foundational knowledge and skills as set by the standards of the Accreditation Council for Education in Nutrition and Dietetics (ACEND). The knowledge and skills consist of basic and working knowledge and demonstrable abilities in the content areas of communications, physical and biological sciences, social sciences, research, food, nutrition, management, and health care systems.

The DPD is one of the two Dietetics programs offered in the Department of Family and Consumer Sciences; the other program is the Dietetic Internship (DI). Graduates of the DPD are eligible to apply for an ACEND accredited DI. Successful completion of the DI provides eligibility to take the national Registered Dietitian (RD) Examination. To practice as an RD, one needs to pass the RD examination.

The DPD Program is accredited by the Accreditation Council for Education in Nutrition and Dietetics which (ACEND) is the Academy of Nutrition and Dietetics' accrediting agency for education programs preparing students for careers as registered dietitians (RD) or dietetic technicians, registered (DTR). ACEND serves and protects students and the public by assuring the quality and continued improvement of nutrition and dietetics education programs.

Family Child and Community Services (FCCS) focuses on growth and development of the individual throughout the life span. It is designed to provide students with competencies necessary for improving the physical, emotional, physiological, and educational well-being of individuals and families. In addition, the program focuses on the study of interpersonal relationships within the family, social, physical, emotional, and cognitive changes during infancy, childhood, adolescence, and adulthood are emphasized. Career opportunities are offered in public and private human service agencies, and specialized facilities serving children, adolescents, adults, and families. A practicum and other volunteer work experiences are required.

The Teacher Education Endorsement concentration meets the requirements of the Virginia Department of Education. It focuses on preparing students for careers as teachers and employment in business, industry, and governmental agencies.

The Textiles, Apparel, Merchandising and Management (TAMM) program prepares students for a variety of careers in fashion and textile industries. Courses include History of Fashion, Fashion Illustration, Fashion Design and Principle of Marketing. Students learn how clothing is made and marketed to the public and how decisions are made in the fashion industry. The program is designed to prepare students, via a broad yet focused education, for the diverse careers available in Textile, Apparel Design, and Fashion Merchandising and Management. Textiles, Apparel Merchandising & Management comprises three components Textile Technology, Apparel Design & Production, Fashion Merchandising & Management.

### **Mission of the Department**

The mission of the Department of Family and Consumer Sciences is to assure that each student reaches his/her full potential and excel in society as a competent and qualified professional.

### **Objectives of the Department**

- Ensure the advancement of students as competent professionals who understands the major concepts, theoretical and cultural perspectives, empirical findings and trends in Family and Consumer Sciences.
- Facilitate student achievement through engagement and application of the principles, language, and major theories of the discipline to demonstrate an understanding of the scope and comprehensiveness of the field of study.
- Promote leadership presence, strategic thinking, and professional development to reflect the vision, mission and values of the discipline.

### **Scholarships**

- Pittman, Josie Morgan Human Ecology
- Baker, Geneva J. Human Ecology
- Owens, A. Elnora
- MEV Hunter Memorial Scholarship Fund
- James Rector Thomas Scholarship

## **Student Organizations**

- Family and Consumer Sciences Student Association
- Kappa Omicron Nu National Honor Society for Human Sciences
- Nutrition and Dietetic Student Association
- TAMM at VSU

**NOTE: Students majoring in all concentrations/areas in Family and Consumer Sciences are required to pass all courses offered in the department with a grade of C or better for such grades to count towards their major curriculum requirements for graduation.**

**FAMILY AND CONSUMER SCIENCES**  
**Course Descriptions**  
**DIETETICS**

**DIET 101 NUTRITION/CONTEMPORARY HEALTH ISSUES – 3 semester hours**

This course presents basic principles for chronic disease prevention, provides scientific answers to questions found daily in the media regarding nutrition. Topics emphasized are basic functions of nutrients, biological nutrient requirements, and impact of gender, culture, ethnicity, social environment, and lifestyle on nutrition status and health.

**DIET 221 PRINCIPLES OF ANALYSIS OF FOODS- 3 semester hours**

The course studies the fundamental processes underlying food selection, preparation, and preservation with practical selection application through laboratory experiences. Emphasis is on the composition and properties of food, food handling to retain nutrients, standards for acceptable products and food costs.

**DIET 275 SEMINAR IN PRACTICE - 1 semester hours**

Coursework present includes the study of the history, structure, and function of the Accreditation Council for Education in Nutrition and Dietetics (ACEND) and current issues facing the profession. Students explore career options and laws, regulations and standards affecting dietetic practice.

**DIET 310 HUMAN NUTRITION - 3 semester hours**

The examination of present knowledge in nutrition will be presented in course. Emphasis is on selection of foods as a source of nutrients, which fulfill desirable nutritional standards. Computer experiences required.

**Prerequisite: One semester of chemistry or biology**

**DIET 311 NUTRITION THROUGH THE LIFECYCLE - 3 semester hours**

A study of the nutritional requirements at different stages of the life span and the factors, which influence eating patterns, is presented in this course. Emphasis is placed on life cycle nutritional assessment and nutritional planning. Learning experiences in nutrition programs are required.

**Prerequisite: DIET 310 Human Nutrition**

**DIET 322 MEAL MANAGEMENT - 3 semester hours**

Menu development, styles of meal service, table appointments, food presentation and meal planning. Emphasis is given to the economics, efficiency, aesthetics and nutrition of meal service. Computerized nutritional and cost analysis of menus required.

**Prerequisite: DIET 221 Principles of Analysis of Food, DIET 310 Human Nutrition**

**DIET 385 NUTRITIONAL BIOCHEMISTRY - 3 semester hours**

The course is a study of energy metabolism and the role of nutritional factors. Students will discuss the composition of living matter and the chemical changes associated with nutritional status.

**Prerequisite: CHEM 305 Organic Chemistry I, CHEM 307 Organic Chemistry I Lab, DIET 310 Human Nutrition**

**DIET 410 NUTRITION COUNSELING PRACTICUM - 2 semester hours**

Counseling skills applied to dietetic practice. Students will learn skills which Emphasizes interviewing and listening skills, surfacing underlying issues, motivation, behavior modification, supporting group processes, and documentation. Student counseling experiences required.

**Prerequisite: PYSC 101 Introduction to Psychology, DIET 311 Nutrition in the Life Cycle**

**DIET 422 NUTRITION AND THE COMMUNITY - 3 semester hours**

This course explores resources existing in governmental and voluntary organizations for working with nutrition problems. Include this course is the study of legislative process and historic and current nutrition legislation. Proposal writing and subsequent steps in establishing and managing community nutrition programs are discussed.

**Prerequisites** DIET 311 Nutrition in the Life Cycle, DIET 322 Meal Management, STAT 210 Elementary Statistics

**DIET 424 ADVANCED HUMAN NUTRITION - 3 semester hours**

The course discusses the recent research with its application to human nutrition. It also discusses the metabolic consequences of nutritional manipulation.

**Prerequisites:** DIET 385 Nutritional Biochemistry

**DIET 431 MEDICAL NUTRITION THERAPY I - 3 semester hours**

The study of nutrition services in the health care system and the nutritional care of the individuals during illness. It includes understanding of medical terminology, physiological changes in the disease states, nutrition assessment, developing plan of care, documentation, application of nutrition therapy in medical conditions, and total quality management of clinical nutrition. This is Part 1 of a two-part course.

**Prerequisites:** DIET 311 Nutrition in the Lifecycle, DIET 385 Nutritional Biochemistry

**DIET 433 QUANTITY FOOD – 3 semester hours**

Study and practice in planning, purchasing, preparing, and servicing food in quantities, and calculation the cost of portions and meals for large groups.

**Prerequisites:** DIET 221 Principles of Analysis of Food, DIET 310 Human Nutrition, and DIET 322 Meal Management

**DIET 435 ORGANIZATION AND MANAGEMENT OF FOOD SERVICES - 3 semester hours**

This course provides students with the tools necessary to succeed in the dynamic and ever changing global hospitality industry. Includes focus on the principles of management and leadership, TQM, empowerment and team development processes, emphasis on leadership styles and models in the hospitality industry. Quantitative aspects of management and internal controls will be addressed with an overview of managerial financial concepts for decision-making and purchasing.

**Prerequisites:** DIET 322 Meal Management

**DIET 437 MEDICAL NUTRITION THERAPY II - 3 semester hours**

The study of nutrition services in the health care system and the nutritional care of the individuals during illness. It includes understanding of medical terminology, physiological changes in the disease states, nutrition assessment, developing plan of care, documentation, application of nutrition therapy in medical conditions, and total quality management of clinical nutrition. Part 2 of a two-part course.

**Prerequisites:** DIET 275 Seminar in Practice, DIET 431 Medical Nutrition Therapy I, DIET 422 Nutrition and the Community; **Co-requisites:** DIET 410 Nutrition Counseling Practicum

**DIET 489 PRACTICUM IN DIETETICS - 3 semester hours**

The course studies the practical application of previously learned theories in Medical Nutrition Therapy, Food Service Management Systems, and other dietetics practice areas.

**Prerequisites** DIET 431 Medical Nutrition Therapy I; **Co-requisites:** DIET 437 Medical Nutrition Therapy II

## **FAMILY AND CONSUMER SCIENCES**

### **FACS 141 PERSPECTIVES ON PROFESSIONALISM - 1 semester hours**

An overview of the profession of family and consumer sciences; introduces students to career expectations and opportunities; career planning and strategies for successful decision-making. **FACS MAJORS ONLY.**

### **FACS 201 CONSUMER ECONOMICS - 3 semester hours**

A study of how consumers interact in the global economic arena. The course provides perspectives in terms of consumer interest, the responsibilities of business, government, private voluntary groups as it relates to consumerism. It provides insights into the essence of consumerism in the present, past, and future. Additionally, the course explains government role in monetary policymaking. Finally, the course provides information to aid the consumer with regard to decision-making and financial management for individuals as well as families.

### **FACS 263 HOUSEHOLD FURNISINGS AND EQUIPMENT - 3 semester hours**

The course instructs students on the concepts of housing and equipment, which include selection criteria, quality standards, operation and financial analysis for family decision-making. Additionally, students will investigate and examine the development of architectural styles, compare historical architectural, understand the function of housing, consider the trends in architectural and furniture design and explore features of furnishings that are characteristic of various historical periods. Finally, furniture placement with reference to floor plan, design, traffic flow using computer design is emphasized.

### **FACS 342 OCCUPATIONAL FAMILY AND CONSUMER SCIENCES - 3 semester hours**

This course of study focuses on planning, implementing and evaluating Family and Consumer Sciences occupational education programs in chosen areas of occupational endorsement. In addition, this course explores leadership theory and practice in relation to theories and processes of innovation and change. It includes the opportunity to explore leadership techniques relevant to change management, entrepreneurship and innovation. You will be encouraged to use your own experience in leadership roles to inform discussion, inquiry, critical thinking and reflection.

**Prerequisites: DIET 221 Principles of Analysis of Food, DIET 310 Human Nutrition, FCCS 301 Child Development**

### **FACS 401 INDEPENDENT STUDY – 3 semester hours**

This is a course designed for students to work independently with an instructor on a topic interest. Students register for the course and schedule an appointment with advisor for project ideas, then present a written proposal describing a research paper or project.

### **FACS 402 TEACHING OF FAMILY AND CONSUMER SCIENCES - 3 semester hours**

This course explores a historical prospective of Family and Consumer Sciences. Pre-candidates will develop an understanding of the specializations and concepts centered around the Family and consumer Sciences subject matter. Students will develop lesson plans, and materials utilized for teaching. Candidates will evaluate and analyze methods of teaching, conduct observations and assessment management practices for teaching various elements of Family and Consumer Sciences as well as the organization and role of public education in America. Emphasis will be given to the student diversity, the legal aspects of teaching, and governance. The course will highlight the significance of FCCLA and FACS student associations. Current trends and issues will be included.

**Prerequisite: EDUC 201 Introduction to Teaching, EDUC 202 Introduction to Teaching II**

**FACS 403 HOME AND FINANCIAL MANAGEMENT - 3 semester hours**

Democratic principles in family living constitute the basis on which the home management experience is planned. Areas of responsibility rotate to give family members experience in all phases of home life with emphasis upon management of time, energy and other resources. A practicum experience is conducted in the home applying the aforementioned concepts.

**Prerequisite: FACS 201 Consumer Economics or Instructor's Approval**

**FACS 440 CONTEMPORARY APPROACH TO CURRICULUM AND TECHNIQUES****3 semester hours**

This course provides a common core of experiences for all prospective teachers and trainers, which develops an understanding of the historical, philosophical, and sociological foundations underlying the development, organization and role of public and private education in America. Emphasis will be given to culture as a foundation, the legal aspects of teaching, and the governance, relation, organization, and support of public education. Contemporary trends and issues will be included.

**FACS 480 ADMINISTRATION OF HUMAN DEVELOPMENT AND FAMILY SYSTEMS****3 semester hours**

This course examines principles and concepts related to administering human service programs and organizations in an environment designed to assist individuals with reaching their full potential. Key concepts include administration, organizational structure, supervision, and resource management. Issues related to planning and implementation are addressed. **FACS MAJORS ONLY.**

**Prerequisite: FACS 141 Perspectives of Professionalism, FCCS 102 Individual Family & Community Services, FCCS 301 Child Development/Laboratory**

**FACS 482 PRACTICUM IN FAMILY AND CONSUMER SCIENCES – 3 semester hours**

Students will participate in introductory work experiences related to their area of emphasis. The areas will include Early Care and Development, Extension Services, and Community Services. The course will afford students the opportunity to gain skills and competencies as practitioners. One-hundred fifty (150) clock hours are required with supervision by Family and Consumer Sciences faculty and on-site coordinators. **FACS MAJORS ONLY.**

**Prerequisite: FACS 141 Perspectives of Professionalism, FCCS 102 Individual Family and Community Services, FACS 480 Administration of Human Development and Family Systems, Permission from Program Coordinator**

**FCCS 101 FAMILY AND COMMUNITY HEALTH - 2 semester hours**

A study of personal hygiene, sanitary care of the home, first aid, prevention of disease and home care of the sick. An introductory course that will examine current practices and trends in health related problems and lifestyle behaviors, emphasizing self-help and preventable aspects of health care.

**FCCS 102 INDIVIDUAL, FAMILY AND COMMUNITY SERVICES - 3 semester hours**

This course explores various contemporary issues related to individual and family roles, responsibilities, interpersonal interactions, functions and development tasks. Specific emphasis is placed upon cultural diversity among families.

**FCCS 301 CHILD DEVELOPMENT/LABORATORY - 3 semester hours**

This course explores the profession of child development. Special attention is given to the perceptual, social, emotional, cognitive and physical processes from infancy through age eight. The laboratory experience is an element of this course and taught simultaneously with the class. This allows students to work directly with children and to receive hands-on-experiences in the preschool classroom.

**FCCS 302 FAMILY RELATIONS - 3 semester hours**

Focus is on applying knowledge and theory to the study of how families relate to one another and manage their resources for both survival and fulfillment. Factors related to the development of functional family lifestyles are assessed from multiple perspectives.

**FCCS 401 FAMILY PLANNING/SEXUAL EDUCATION - 3 semester hours**

The course investigates factors related to the development of functional lifestyles and families. Consideration is given to current problems relating to marriage and family life and those changes in society, which affect the institution of the family. The course exams concepts related to family planning and the relationship of sexual attitudes and behavior to human development and functioning. Special emphasis on economic, social, cultural, legal, and political factors, which influence decisions, related to family planning, sexual behavior, and attitudes. Open to non-majors.

**FCCS 402 DECISION MAKING PROCESSES IN MODERN LIFESTYLES - 3 semester hours**

A fundamental course in the study of decision making as it takes place. Students explore the theories for understanding and carrying out the decision-making process. In addition, theories on motivation, rational choice, and behavior are explored.

**FCCS 405 PARENT EDUCATION - 3 semester hours**

The course studies the assessment of current theories and concepts relative to parent education. Emphasis is placed on parenthood responsibilities and the task of parenting in today's diverse culture.

**HIDG 161 PRINCIPLES OF ART and DESIGN- 3 semester hours**

This course is an introduction of the basic principles of design as they relate to fashion, residential and workspace environments. Special considerations will be given to visual design in a sensory and behavior context.

**HIDG 461 HOUSING AND SOCIETY - 3 semester hours**

The course is designed to explore contemporary issues related to family and housing. A study of the relationship of people's basic needs and values in relations to their housing is explored. Modern, rural, and urban living patterns as related to diversified societies and cultural backgrounds are studied. Additionally, housing needs and resources for the aged are also examined as well as a historical aspect of housing is also presented. Attention is given to aspects and to the factors relating to construction, architectural design, regulations and housing codes. The class is open to non-majors.

**Prerequisites: FACS 263 Household Furnishings and Equipment**

## **TEXTILES, APPAREL AND MERCHANDISE MANAGEMENT**

### **TAMM 171 TEXTILES - 3 semester hours**

This course is an introduction to the diversity of textiles arts, fiber science, and a focus on a thorough knowledge of textiles, their design structure and application. Emphasis is placed upon processes, such as twining, plaiting, spinning, knitting, dyeing, hand-printing, and loom-weaving. In addition, this course surveys textile terminology and properties to enable students to make appropriate choices in textile selection for a product.

### **TAMM 172 SURVEY OF THE TEXTILE AND APPAREL INDUSTRY - 1 semester hours**

In this course, students will gain a broad understanding of the Apparel and Textile industry. Topics will provide students a better understanding of industry structure from the primary level, secondary level, Core and Auxiliary level. This will provide a good foundation on which to build deeper specialist knowledge as students' progress through the TAMM program. Students will learn how to explore the business of fashion through investigation, observation and gathering of materials. Through critical analysis, students will question, discuss, and argue debate current fashion business issues and to put forward ideas and information in presentations, and written work.

### **TAMM 271 CLOTHING CONSTRUCTION - 3 semester hours**

This course is a study in the acquisition of construction skills and techniques necessary for transforming fabrics into apparel and/or home fashions. It includes an understanding of sewing equipment supplies and materials as well as applications for specific figure types and personalities. Emphasis is also placed on construction methods, technology and appropriate applications. **FACS MAJOR ONLY or Permission from Instructor/Program Coordinator.**

### **TAMM 272 FASHION HISTORY - 3 semester hours**

A fundamental course in Fashion and Costume History including identity of costume starting with the Ancient Civilization to the development Western Civilization ending in the 20th Century. It also will assist the student in describing how technology and economics influence fashion development and change.

### **TAMM 274 FASHION MARKETING AND MERCHANDISING - 3 semester hours**

This course focuses on the integration of fashion marketing concepts and applications in the development of a merchandising plan. Students will learn about merchandise positioning, brand building, market segmentation, and market research as it relates to the fashion industry.

**Prerequisite(s): TAMM 172 Survey of the Textile and Apparel Industry**

### **TAMM 373 FASHION ILLUSTRATION AND COMPUTER APPLICATIONS – 3 semester hours**

This course provides an exploratory of the tools and techniques used to communicate Fashion. In areas such as design, branding, and merchandising effective communication is essential. Students will experience hand drawn techniques up to advanced computer software to develop presentation boards, promotion and production materials. The course format will include a lecture and studio to enhance the student learning experience through application. In addition, students will engage in the portfolio development process to create the prototype for their Senior Portfolio.

**Prerequisite(s): TAMM 172 Survey of the Textile and Apparel Industry, HIDG 161 Principles of Art Design, TAMM 271 Clothing Construction**

**TAMM 375 VISUAL MERCHANDISING AND STYLING - 3 semester hours**

This course is a study of presentation techniques and merchandising concepts employed to promote store image or brand strategy. Students will utilize artistic principles such as line, balance, rhythm to create effective merchandising displays and floor sets for a retail environment. Students will also explore the stylist's role in print and interactive media. Using both lecture and studio delivery, activities will include mock assignments, story boarding photo shoots, display window installations and other experiences associated with visual merchandising and stylist's responsibilities.

**Prerequisite(s): TAMM 172 Survey of the Textile and Apparel Industry, HIDG 161 Principles of Art Design, TAMM 271 Clothing Construction, TAMM 272 Fashion History**

**TAMM 376 PRINCIPLES OF RETAIL MATH AND BUYING - 3 semester hours**

This course is an introduction to retail math and buying simulation. Students will be introduced to a buying simulation where they will learn the concepts and calculations necessary for merchandise buying and assortment planning for a retail store. Students will understand the retail method of inventory, planning seasonal purchases, markups, turnover, stock to sales ration, open to buy, markdowns, and terms of sale.

**Prerequisites: TAMM 172 Survey of the Textile and Apparel Industry, GEMA 112 Mathematics, GEMA 113 Mathematics**

**TAMM 377 APPAREL DESIGN - 3 semester hours**

A specialized course designed to expose the TAMM major to advanced design technique. Students will engage in the design conceptualization process, flat pattern, and advanced level construction to design and construct a sample collection. Students will develop design ideas using croquis, draft final patterns, create mock-up and finalize using fashion fabric. Upon completion, garments will be presented for review and juried for fashion presentation.

**Prerequisites: TAMM 172 Survey of the Textile and Apparel Industry, TAMM 171 Textiles, TAMM 271 Clothing Construction, TAMM 272 Fashion History, TAMM 373 Fashion Illustration**

**TAMM 379 TRENDS AND CONCEPTS - 3 semester hours**

A comprehensive study of cultural and social issues that affect fashion and the emergence of trends. Students will analyze the meanings and importance of clothing and apply these concepts to contemporary society. Upon completion of the course, students will be able to complete trend analysis as well as prepare and present a Trend Forecast report based on their analyses.

**Prerequisite(s): HIDG 161 Principles of Art Design, TAMM 171 Textiles, TAMM 271 Clothing Construction, TAMM 172 Survey of the Textile and Apparel Industry, TAMM 272 History of Fashion, TAMM 373 Fashion Illustration and Computer Applications**

**TAMM 477 SENIOR SEMINAR AND PROFESSIONAL DEVELOPMENT - 3 semester hours**

Senior Seminar is a capstone course which involves an in-depth project undertaken by the TAMM student under the direction of the Program Coordinator and/or identified faculty. It is required to be taken during the student's Final Semester. The project is primarily concerned with the student's knowledge of the substantive content of their major field as defined by the general program of study. Students will displayed their knowledge through research project, case study, entrepreneurship /small business plan, or an approved internship/study tour project. The project is regarded as the student's culminating work and should draw upon all the student's experience and four years of study. The course will culminate with a final project paper and presentation. In addition, Students will submit a portfolio which is professionally guided and applies student skill set.

**Prerequisite(s):HIDG 161 Principles of Art Design, TAMM 171 Textiles, TAMM 271 Clothing Construction, TAMM 172 Survey of the Textile and Apparel Industry, TAMM 272 History of Fashion, TAMM 274 Fashion Marketing and Merchandising, TAMM 373 Fashion Illustration and Computer Applications, TAMM 376 Principles of Retail Math and Buying, TAMM 379 Trends and Concepts, TAMM 478 Apparel Product Development**

**TAMM 478 APPAREL PRODUCT DEVELOPMENT - 3 semester hours**

This advanced level course provides TAMM students with a simulated experience in product development processes and apparel production. Building upon introductory courses, students will apply fashion terminology, construction, textile science, and retail management principles to simulate the three levels of the industry design, production & sales. Students will engage in the design process, will learn flat pattern design and advanced construction skills to address production challenges. In addition, students will utilize analytical skills to cost and source as well as analyze global market challenges. Students will synthesize design concepts, advanced production technology, the development of merchandising in the modern market, including analysis of target markets, analyze the source, cost and development of a product in that market in presentation form

**Prerequisite(s):**HIDG 161 Principles of Art Design, TAMM 171 Textiles, TAMM 271 Clothing Construction, TAMM 172 Survey of the Textile and Apparel Industry, TAMM 272 History of Fashion, TAMM 274 Fashion Marketing and Merchandising, TAMM 373 Fashion Illustration and Computer Applications, TAMM 376 Principles of Retail Math and Buying, TAMM 379 Trends and Concepts

**TAMM 479 FASHION PROMOTION AND EVENT PLANNING - 3 semester hours**

This course examines the process of promotion and the promotion mix tools utilized by fashion companies. Students are engaged in all aspects of the planning process of an actual event (e.g. setting goals, preparing budgets, creating ad layouts, creating press kits, coordinating production, and evaluating). Further, students will plan and execute a fashion event (e.g., Fashion Show, Lecture Series, Fashion Publication, Trunk Show, and Bazaar).

**Prerequisite(s):**HIDG 161 Principles of Art Design, TAMM 172 Survey of the Textile and Apparel Industry, TAMM 272 History of Fashion, TAMM 274 Fashion Marketing and Merchandising, TAMM 373 Fashion Illustration and Computer Applications

**DEPARTMENT OF FAMILY AND CONSUMER SCIENCES**

**Family and Consumer Science Major  
Minor in Secondary Education**

		1 <sup>st</sup>	2 <sup>nd</sup>	Total
		Sem	Sem	Hours
<b>FRESHMAN YEAR</b>				
ENGL 110	Composition I*	3	-	3
MATH 112	Basic Mathematics I	3	-	3
HIDG 161	Principles of Art and Design	3	-	3
FCCS 102	Individual, Family and Community Services	3	-	3
FACS 141	Perspective on Professionalism	1	-	1
GE	Global Studies	3	-	3
ENGL 111	Composition II*	-	3	3
MATH 113	Basic Math II	-	3	3
HIST 122	U.S. History or Elective	-	3	3
Elective	Elective	-	3	3
GEES 181	Earth Science / Laboratory	-	4	4
IDST 100	PRAXIS Prep (if needed)	-	(2)	(2)
<b>Totals</b>		<b>16</b>	<b>16</b>	<b>32</b>
<b>SOPHOMORE YEAR</b>				
BIOL 116	Biological Science / Laboratory	4	-	4
FACS 201	Consumer Economics	3	-	3
EDUC 201	Introduction to Teaching I*	2	-	2
ENGL 314	Readings in Multicultural Literature	3	-	3
HPER 170	Wellness and Health	2	-	2
TAMM 271	Clothing Construction	3	-	3
DIET 221	Principles of Analysis of Foods	-	3	3
FACS 263	Household Furnishings and Equipment	-	3	3
EDUC 202	Introduction to Teaching II*	-	2	2
PSYC 212	Human Growth and Development	-	3	3
IDST 200	Digital Media in TE*	-	3	3
<b>Totals</b>		<b>17</b>	<b>14</b>	<b>31</b>
<b>JUNIOR YEAR</b>				
DIET 310	Human Nutrition	3	-	3
FACS 342	Occupational Family/Consumer	3	-	3
DIET 322	Meal Management	3	-	3
HLTH 346	School and Community Health	2	-	2
HIDG 461	Housing and Society	3	-	3
SPEE 214	Introduction to Public Speaking	-	3	3
EDUC 427	Reading in Subject Area	-	3	3
SPED 403	Classroom Management Educational Settings	-	3	3
EDUC 315	Data Driven Instruction	-	3	3
FCCS 301	Child Development/ Laboratory	-	3	3
<b>Totals</b>		<b>14</b>	<b>15</b>	<b>29</b>
<b>SENIOR YEAR</b>				
FCCS 401	Family Planning/Sexual Education	3	-	3
FACS 403	Home and Financial Management	3	-	3
EDUC 424	Critical Issues Education	2	-	2
FACS 440	Contemporary Approach to Curriculum & Techniques	3	-	3
FCCS 402	Decision Making Process in Modern Lifestyles	3	-	3
EDUC 401	Student Teaching Seminars	-	3	3
EDUC 402	Student Teaching – Field	-	9	9
FACS 402	Teaching of FACS	-	3	3
<b>Totals</b>		<b>14</b>	<b>15</b>	<b>29</b>

Additional Requirement for Teacher Endorsement

- IDST 100/101 are not needed if the student met PRAXIS I score or SAT score
- The student must take and pass PRAXIS Assessment
- Complete admission to Teacher Education Professional Program

*Substitutions must be approved by College Dean and Department Chair*

**Electives:**

		<b>SUBJECT AREA</b>	<b>HOURS</b>
<b><u>Sciences</u></b>			
BIOL 116	Biological Science and Lab	General Education Courses	34
GEES 181	Earth Science and Lab	Major Requirements	49
		Electives	3
<b><u>History</u></b>			
HIST 122	U.S. History I	Other Requirements	35
		<b>TOTAL DEGREE HOURS REQUIRED</b>	<b>121</b>

**Social Science**

PSYC 212 Human Growth and Development

**Education**

EDUC 201\* Introduction to Teaching  
EDUC 202\* Introduction to Teaching II  
EDUC 315\* Data Driven Instruction  
EDUC 427\* Reading in the Content Area  
EDUC 424\* Critical Issues in Education  
EDUC 401\* Student Teaching Seminar  
EDUC 402\* Student Teaching – Field Experience  
IDST 200\* Digital Media in Teacher Education  
SPED 403\* Classroom Management in Education

**Humanities**

SPEE 214 Introduction to Public Speaking

**Literature**

ENGL 314 Readings in Multicultural Literature

**Mathematics**

Math 112 Basic Mathematics  
Math 113 Basic Mathematics

**Global Studies**

GE Global Global Studies

**Wellness Health**

HPER 170 Health and Wellness

**A grade of “C” or better is required for all Major Courses.**

FCCS 102 Individual, Family and Community Services  
FACS 141 Perspectives of the Professionalism  
HIDG 161 Principles of Art and Design  
DIET 221 Principles of Analysis of Foods  
FACS 201 Consumer Economics  
TAMM 271 Clothing Construction  
FACS 263 Household Furnishings and Equipment  
DIET 310 Human Nutrition  
FCCS 301 Child Development/Lab  
FACS 342 Occupational Family and Consumer Sciences

DIET 322	Meal Management
FCCS 401	Family Planning/Sexual Education
FACS 403	Home and Financial Management
HIDG 461	Housing and Society
FACS 440	Contemporary Approach to Curriculum & Techniques
FCCS 402	Decision Making Process in Modern Lifestyles
FACS 402	Teaching of Family & Consumer Sciences

### **Teacher Education Courses**

EDUC 201	Introduction to Teaching
EDUC 202	Introduction to Teaching II
IDST 200	Digital Media in Teacher Education
EDUC 315	Data Driven Instruction
EDUC 427	Reading in the Content Area
SPED 403	Classroom Management in Education
EDUC 424	Critical Issues in Education
EDUC 401	Student Teaching Seminar
EDUC 402	Student Teaching-Field Experience
PSYC 212	Human Growth and Development
HLTH 346	School and Community Health

The following general education courses can be substituted for the general education courses listed on the curriculum/program guide. All general education courses denoted by an asterisk require a “C” or better.

### **History**

HIST114	World History I*
HIST123	US History*

### **Humanities**

ENGL311	African American Literature
ENGL312	Women’s Literature
ENGL341	Expository Writing
ENGL342	Technical Communication
FREN110	Elementary French I
GEEN310	Advanced Communication
GERM110	Elementary German I
PHIL180	Critical Thinking
PHIL220	Logic*
PHIL275	Ethics*
SPAN110	Elementary Spanish
SPEE214	Introduction to Public Speaking

### **Global Studies**

ENGL314	Readings in Multicultural Literature
FREN110	Elementary French I
GERM110	Elementary German I
IDUP270	Introduction to Africana Studies
POLI207	International Relations
SPAN110	Elementary Spanish I

### **Literature**

ENGL201	Introduction to Literature*
ENGL202	Introduction to African American Literature
ENGL210	English Literature I
ENGL212	American Literature I
ENGL214	World Literature I

### **Wellness/Health**

HPER160	Team Sports
HPER165	Personal Fitness
HPER166	Beginning Swimming
HPER168	Aerobic and Conditioning
HPER171	Life Sports I

### **Mathematics**

MATH120	College Algebra*
MATH121	College Algebra and Trigonometry
MATH122	Finite Mathematics

### **Social Sciences**

ECON210	Principles of Microeconomics*
ECON211	Principles of Macroeconomics*
SOCI101	Introduction to Sociology*
SCOI102	Introduction to Anthropology*
PSYC101	Introduction to Psychology*

### **Science**

BIOL120	Principles of Biology I + Lab*
CHEM152/153	General Chemistry I + Lab*
CHEM100	Chemistry and Society + Lab*
PHYS100	Physical Science + Lab*

**Note: Students must have a minimum GPA of 2.25 and a “C” or better is required in all Major Courses and General Education denoted with an asterisk to matriculate in this program.**

## GENERAL EDUCATION REQUIREMENTS FOR BS DEGREE

		Semester Hour
<b>HISTORY</b>		
HIST 122	US History I	3
<b>GLOBAL STUDIES</b>		
GE Global	Global Studies	3
<b>ENGLISH</b>		
ENGL 110 and 111	Composition I and II	6
<b>WELLNESS/HEALTH</b>		
HPER 170	Health and Wellness	2
<b>MATHEMATICS</b>		
MATH 112	Basic Mathematics I	3
MATH 113	Basic Mathematics II	3
<b>SOCIAL SCIENCE</b>		
PSYC 212	Human Growth and Development	3
SPEE 214	Introduction to Public Speaking	3
<b>SCIENCE</b>		
BIOL 116	Principles of Biology I and Lab	4
GEES 181	Earth Sciences and Lab	4

**TOTAL REQUIREMENTS SEMESTR HOURS: 34.00**

*A single course may simultaneously fulfill a general education requirement and a departmental or major/minor requirement.*

*A single course cannot be used to fulfill more than one general education requirement.*

*Department or major/minor areas may opt to exceed the minimum credit hour requirements above.*

**DEPARTMENT OF FAMILY AND CONSUMER SCIENCES**  
**Family and Consumer Sciences Major**  
**Family, Child and Community Service Concentration**

		Semester Hours		
		1 <sup>st</sup>	2 <sup>nd</sup>	Total
		Sem	Sem	Hours
<b>FRESHMAN YEAR</b>				
ENGL 110	Composition I*	3	-	3
MATH 112	Basic Mathematics I	3	-	3
HPER 170	Wellness/Health	2	-	2
FCCS 102	Individual, Family and Community Services	3	-	3
FACS 141	Perspective on Professionalism	1	-	1
PYSC 101	Introduction to Psychology	3	-	3
ENGL 111	Composition II*	-	3	3
MATH 113	Basic Mathematics	-	3	3
HIDG 161	Principles of Art and Design	-	3	3
Elective	Elective	-	2	2
GEES 181	Earth Science / Laboratory	-	4	4
<b>Totals</b>		<b>15</b>	<b>15</b>	<b>30</b>
<b>SOPHOMORE YEAR</b>				
BIOL 116	Biological Science / Laboratory	4	-	4
ECON 210	Principles of Microeconomics	3	-	3
ENGL 314	Readings Multicultural Literature	3	-	3
HIST 122	U.S. History or Elective	3	-	3
PSYC 212	Human Growth and Development	3	-	3
FACS 201	Consumer Economics	-	3	3
DIET 221	Principles of Analysis of Foods	-	3	3
SPEE 214	Introduction to Public Speaking	-	3	3
TAMM 271	Clothing Construction	-	3	3
GE	Global Studies	-	3	3
<b>Totals</b>		<b>16</b>	<b>15</b>	<b>31</b>
<b>JUNIOR YEAR</b>				
DIET 310	Human Nutrition	3	-	3
GEEN 310	Advanced Communication Skills	3	-	3
Elective	Elective	3	-	3
FACS 480	Administration of Human Development	3	-	3
DIET 322	Meal Management	3	-	3
Elective	FACS Elective	-	3	3
MISY 201	Microcomputer Concepts	-	3	3
FCCS 301	Child Development/ Laboratory	-	3	3
FACS 263	Household Furnishings and Equipment	-	3	3
Elective	Humanities Elective	-	3	3
<b>Totals</b>		<b>15</b>	<b>15</b>	<b>30</b>
<b>SENIOR YEAR</b>				
FCCS 401	Family Planning/Sexual Education	3	-	3
HIDG 461	Housing and Society	3	-	3
MGMT 300	Organization & Management	3	-	3
Elective	Elective	3	-	3
Elective	FACS Elective	3	-	3
FACS 440	Contemporary Approach to Curriculum & Techniques	-	3	3
FACS 482	Practicum in Family and Consumer Sciences	-	3	3
FCCS 402	Decision Making Process in Modern Lifestyles	-	3	3
Elective	Elective	-	3	3
Elective	Elective	-	3	3
<b>Totals</b>		<b>15</b>	<b>15</b>	<b>30</b>

## SUMMARY OF GRADUATION REQUIREMENTS

### Electives:

		SUBJECT AREA	HOURS
<b>Science</b>			
BIOL 116	Biological Science and Lab	General Education Courses	34
GEES 181	Earth Science and Lab	Major Requirements	49
		Electives	18
		Other Requirements	21
<b>History</b>			
HIST 122	U.S. History I	<b>TOTAL DEGREE HOURS REQUIRED</b>	<b>121</b>

### Humanities

SPEE 214	Introduction to Public Speaking
GEEN 310	Advanced Communication Skills

### Literature

ENGL 314	Readings in Multicultural Literature
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### Mathematics

Math 112	Basic Mathematics
Math 113	Basic Mathematics

### Social Science

PYSC 101	Introduction to Psychology
PSYC 212	Human Growth and Development
ECON 210	Principles of Economics

### Business

MISY 201	Microcomputer Concepts
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### Global Studies

SPAN 110	Elementary Spanish I
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### Wellness Health

HPER 170	Health and Wellness
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### **A grade of "C" or better is required for all Major Courses.**

FACS 141	Perspective on Professionalism
HIDG 161	Principles of Art and Design
FCCS 102	Individual, Family and Community Services
DIET 221	Principles of Analysis of Food
FACS 263	Household Furnishings and Equipment
TAMM 271	Clothing Construction
DIET 310	Human Nutrition
FCCS 301	Child Development/Lab
DIET 322	Meal Management
FCCS 401	Family Planning/Sexual Education
FCCS 402	Decision Making Process in Modern Lifestyles
HIDG 461	Housing and Society
FACS 440	Contemporary Approach to Curriculum and Techniques

PSYC 212 Human Growth and Development  
FACS 480 Administration in Human Development  
FACS 482 Practicum in Family and Consumer Sciences

### **Restricted Electives**

ECON 210 Principles of Microeconomics  
GEEN 310 Advanced Communication Skills  
SPEE 214 Introduction to Public Speaking  
MISY 201 Microcomputer Concepts  
FACS 403 Home & Financial Management  
FACS 342 Occupational Family & Consumer Science  
MKTG 300 Principles of Marketing

The following general education courses can be substituted for the general education courses listed on the curriculum/program guide. All general education courses denoted by an asterisk must require a “C” or better.

### **History**

HIST114 World History I  
HIST123 US History

### **Humanities**

ENGL311 African American Literature\*  
ENGL312 Women’s Literature\*  
ENGL341 Expository Writing  
FREN110 Elementary French I  
GERM110 Elementary German I  
PHIL180 Critical Thinking\*  
PHIL220 Logic\*  
PHIL275 Ethics\*  
SPAN110 Elementary Spanish  
SPEE214 Introduction to Public Speaking\*  
ENGL342 Technical Communication\*

### **Global Studies**

ENGL314 Readings in Multicultural Literature  
FREN110 Elementary French I  
GERM110 Elementary German I  
IDUP270 Introduction to Africana Studies  
POLI207 International Relations  
SPAN110 Elementary Spanish I

### **Literature**

ENGL201	Introduction to Literature
ENGL202	Introduction to African American Literature
ENGL210	English Literature I
ENGL212	American Literature I
ENGL214	World Literature I

### **Wellness/Health**

HPER160	Team Sports
HPER165	Personal Fitness
HPER166	Beginning Swimming
HPER168	Aerobic and Conditioning
HPER171	Life Sports I

### **Mathematics**

MATH120	College Algebra
MATH121	College Algebra and Trigonometry
MATH122	Finite Mathematics

### **Social Sciences**

ECON210	Principles of Microeconomics
ECON211	Principles of Macroeconomics
SOCI101	Introduction to Sociology
SCOI102	Introduction to Anthropology
PSYC101	Introduction to Psychology

### **Science**

BIOL120	Principles of Biology I + Lab
BIOL121	Principles of Biology II + Lab
CHEM151	General Chemistry I
CHEM153	General Chemistry I Lab
CHEM100	Chemistry and Society + Lab
PHYS100	Physical Science + Lab

**Note: Students must have a minimum GPA of 2.25 and a “C” or better is required in all Major Courses and General Education denoted with an asterisk “\*” to matriculate in this program.**

**GENERAL EDUCATION REQUIREMENTS FOR BS DEGREE**

		Semester Hour
<b>HISTORY</b>		
HIST 122	US History I	3
<b>HUMANITIES</b>		
SPEE 214	Introduction to Public Speaking	3
<b>GLOBAL STUDIES</b>		
SPAN 110/111-212/213	Elementary/Intermediate Spanish I, II	3
<b>ENGLISH</b>		
ENGL 110 and 111	Composition I and II	6
<b>WELLNESS/HEALTH</b>		
HPER 170	Health and Wellness	2
<b>MATHEMATICS</b>		
MATH 112	Basic Mathematics I	3
MATH 113	Basic Mathematics II	3
<b>SOCIAL SCIENCE</b>		
PSYC 212	Human Growth and Development	3
<b>SCIENCE</b>		
BIOL 116	Principles of Biology I and Lab	4
GEES 181	Earth Science and Lab	4

**TOTAL REQUIREMENTS SEMESTR HOURS: 34.00**

*A single course may simultaneously fulfill a general education requirement and a departmental or major/minor requirement.*

*A single course cannot be used to fulfill more than one general education requirement.*

*Department or major/minor areas may opt to exceed the minimum credit hour requirements above.*

**DEPARTMENT OF FAMILY AND CONSUMER SCIENCES**  
**Family and Consumer Sciences Major**  
**Dietetics Concentration**

		Semester Hours		
		1 <sup>st</sup> Sem	2 <sup>nd</sup> Sem	Total Hours
<b>FRESHMAN YEAR</b>				
ENGL 110	Composition I*	3	-	3
MATH 120	College Algebra	3	-	3
GE History	Elective	3	-	3
PYSC 101	Introduction to Psychology	3	-	3
Elective	Elective	2	-	2
FACS 141	Perspective on Professionalism	1	-	1
ENGL 111	Composition II*	-	3	3
MATH 121	College Algebra and Trigonometry	-	3	3
BIOL 120	Principles or Biology/Laboratory	-	4	4
GE Technology	Elective – See Advisor	-	3	3
MGMT 300	Organization & Management	-	3	3
<b>Totals</b>		<b>15</b>	<b>16</b>	<b>31</b>
<b>SOPHOMORE YEAR</b>				
CHEM 151	General Chemistry I	3	-	3
CHEM 153	General Chemistry I Lab	1	-	1
ECON 210	Principles of Microeconomics	3	-	3
STAT 210	Statistics	3	-	3
DIET 310	Human Nutrition	3	-	3
BIOL 316	Human Physiology	3	-	3
GE Wellness	Wellness/Health	-	2	2
CHEM 152/154	General Chemistry II and Lab	-	4	4
GE	Global Studies	-	3	3
DIET 221	Principles of Analysis of Foods	-	3	3
DIET 275	Seminar in Practice	-	1	1
DIET 311	Nutrition through the Lifecycle	-	3	3
<b>Totals</b>		<b>16</b>	<b>16</b>	<b>32</b>
<b>JUNIOR YEAR</b>				
BIOL 241	Introduction to Microbiology/Lab	4	-	4
CHEM 305	Organic Chemistry I	3	-	3
CHEM 307	Organic Chemistry I Lab	1	-	1
DIET 322	Meal Management	3	-	3
GE Humanities	Humanities Elective	3	-	3
GE Literature	Literature Elective	3	-	3
GEEN 310	Advanced Communication Skills	-	3	3
DIET 385	Nutritional Biochemistry	-	3	3
DIET 433	Quantity Foods/Lab Elective	-	3	3
HMGMT 402	Hospitality Human Resource Management	-	3	3
Elective	Elective	-	3	3
<b>Totals</b>		<b>17</b>	<b>15</b>	<b>32</b>
<b>SENIOR YEAR</b>				
DIET 431	Medical Nutrition Therapy I	3	-	3
DIET 435	Organization and Management	3	-	3
DIET 422	Nutrition and the Community	3	-	3
DIET 489	Practicum in Dietetics	3	-	3
FCCS 402	Decision Making Process in the Lifestyles	-	3	3
FACS 440	Contemporary Approach to Curriculum & Techniques	-	3	3
DIET 424	Advanced Human Nutrition	-	3	3
DIET 437	Medical Nutrition Therapy II	-	3	3
DIET 410	Nutrition Counseling Practicum	-	2	2
<b>Totals</b>		<b>12</b>	<b>14</b>	<b>26</b>

**Substitutions must be approved by School Dean and Department Chair**

## SUMMARY OF GRADUATION REQUIREMENTS

### Electives:

		SUBJECT AREA	HOURS
<b><u>Science</u></b>			
BIOL 116	Biological Science and Lab	General Education Courses	34
GEES 181	Earth Science and Lab	Major Requirements	49
		Electives	3
		Other Requirements	35
		<b>TOTAL DEGREE HOURS REQUIRED</b>	<b>121</b>

### Humanities

SPEE 214	Introduction to Public Speaking
GEEN 310	Advanced Communication Skills

### Literature

ENGL 314	Readings in Multicultural Literature
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### Mathematics

Math 112	Basic Mathematics
Math 113	Basic Mathematics

### Social Science

PYSC 101	Introduction to Psychology
PSYC 212	Human Growth and Development
ECON 210	Principles of Economics

### Business

MISY 201	Microcomputer Concepts
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### Global Studies

SPAN 110	Elementary Spanish I
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### Wellness Health

HPER 170	Health and Wellness
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### **A grade of "C" or better is required for all Major Courses.**

FACS 141	Perspective on Professionalism
DIET 221	Principles of Analysis of Food
DIET 275	Seminar in Practice
DIET 310	Human Nutrition
DIET 311	Nutrition through the Lifecycle
DIET 322	Meal Management
DIET 385	Nutritional Biochemistry
FCCS 402	Decision Making Process in Modern Lifestyles
FCCS 440	Contemporary Approach to Curriculum Techniques
HMGMT 402	Hospitality Human Resource Management
DIET 410	Nutrition Counseling Practicum
DIET 422	Nutrition and the Community
DIET 424	Advanced Human Nutrition
DIET 431	Medical Nutrition Therapy I
DIET 433	Quantity Foods/Lab Elective

- DIET 435 Organization and Management  
 DIET 437 Medical Nutrition Therapy II

### **Restricted Electives**

- ECON 210 Principles of Microeconomics  
 GEEN 310 Advanced Communication Skills  
 SPEE 214 Introduction to Public Speaking

The following general education courses can be substituted for the general education courses listed on the curriculum/program guide. All general education courses denoted by an asterisk must require a “C” or better.

### **History**

- HIST114 World History I  
 HIST123 US History

### **Humanities**

- ENGL311 African American Literature\*  
 ENGL312 Women’s Literature\*  
 ENGL341 Expository Writing  
 FREN110 Elementary French I  
 GERM110 Elementary German I  
 PHIL180 Critical Thinking\*  
 PHIL220 Logic\*  
 PHIL275 Ethics\*  
 SPAN110 Elementary Spanish  
 SPEE214 Introduction to Public Speaking\*  
 ENGL342 Technical Communication\*

### **Global Studies**

- ENGL314 Readings in Multicultural Literature  
 FREN110 Elementary French I  
 GERM110 Elementary German I  
 IDUP270 Introduction to Africana Studies  
 POLI207 International Relations  
 SPAN110 Elementary Spanish I

### **Literature**

- ENGL201 Introduction to Literature  
 ENGL202 Introduction to African American Literature  
 ENGL210 English Literature I  
 ENGL212 American Literature I  
 ENGL214 World Literature I

### **Wellness/Health**

- HPER160 Team Sports  
 HPER165 Personal Fitness  
 HPER166 Beginning Swimming  
 HPER168 Aerobic and Conditioning  
 HPER171 Life Sports I

**Mathematics**

MATH120 College Algebra  
MATH121 College Algebra and Trigonometry  
MATH122 Finite Mathematics

**Social Sciences**

ECON210 Principles of Microeconomics  
ECON211 Principles of Macroeconomics  
SOC101 Introduction to Sociology  
SCOI102 Introduction to Anthropology  
PSYC101 Introduction to Psychology

**Science**

BIOL120 Principles of Biology I + Lab  
BIOL121 Principles of Biology II + Lab  
CHEM151 General Chemistry I  
CHEM153 General Chemistry I Lab  
CHEM100 Chemistry and Society + Lab  
PHYS100 Physical Science + Lab

Note: Students must have a minimum GPA of 2.25 and a “C” or better is required in **all** Major Courses and General Education denoted with an asterisk to matriculate in this program.

\* Accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) as a Didactic Program in Dietetics (DPD)

## GENERAL EDUCATION REQUIREMENTS FOR BS DEGREE

<b>HISTORY</b>		<b>Semester Hour</b>
HIST 122	US History I	3
<b>HUMANITIES</b>		
GEEN 310	Advanced Communication Skills	3
SPEE 214	Introduction to Public Speaking	3
<b>GLOBAL STUDIES</b>		
GE Global	Global Studies	3
<b>ENGLISH</b>		
ENGL 110 and 111	Composition I and II	6
<b>WELLNESS/HEALTH</b>		
HPER 170	Health and Wellness	2
<b>MATHEMATICS</b>		
MATH 120	College Algebra	3
MATH 121	College Algebra and Trigonometry	3
<b>SOCIAL SCIENCE</b>		
PYSC 101	Introduction to Psychology	3
<b>SCIENCE</b>		
BIOL 120	Principles of Biology I and Lab	4
CHEM 151	General Chemistry I	3
CHEM 153	General Chemistry I Lab	1

**TOTAL REQUIREMENTS SEMESTR HOURS: 37**

*A single course may simultaneously fulfill a general education requirement and a departmental or major/minor requirement.*

*A single course cannot be used to fulfill more than one general education requirement.*

*Department or major/minor areas may opt to exceed the minimum credit hour requirements above.*

**DEPARTMENT OF FAMILY AND CONSUMER SCIENCES**  
**Bachelor of Sciences Family and Consumer Sciences**  
**Textile, Apparel and Merchandising Management Concentration**

**Semester Hours**

		<b>1<sup>st</sup> Sem</b>	<b>2<sup>nd</sup> Sem</b>	<b>Total Hours</b>
<b>FRESHMAN YEAR</b>				
ENGL 110	Composition I*	3	-	3
MATH 112	Basic Mathematics	3	-	3
FACS 102	Individual, Family and Community Services	3	-	3
HPER 170	Wellness/Health	2	-	3
TAMM 171	Textiles	3	-	3
TAMM 172	Survey of the Textiles and Apparel Industry	1	-	1
ENGL 111	Composition II*	-	3	3
MATH 113	Basic Mathematics	-	3	3
FACS 141	Perspective on Professionalism	-	1	1
HIDG 161	Principles of Art and Design	-	3	3
HIST 122	US History or Elective	-	3	3
PSYC 101	Introduction to Psychology	-	3	3
<b>Totals</b>		<b>15</b>	<b>16</b>	<b>31</b>
<b>SOPHMORE YEAR</b>				
CHEM 100	Chemistry & Society/ Lab	4	-	4
FACS 201	Consumer Economics	3	-	3
ENGL 201	Introduction to Literature	3	-	3
PHIL 180	Critical Thinking or GE Humanities Elective	3	-	3
TAMM 271	Clothing Construction	3	-	3
SPEE 214	Introduction to Public Speaking	-	3	3
ECON 210	Principles of Microeconomics	-	3	3
PYSC 212	Human Growth and Development	-	3	3
TAMM 274	Fashion Marketing and Merchandising	-	3	3
GE Global	GE Global Studies	-	3	3
<b>Totals</b>		<b>16</b>	<b>15</b>	<b>31</b>
<b>JUNIOR YEAR</b>				
DIET 310	Human Nutrition	3	-	3
TAMM 272	Fashion History	3	-	3
TAMM 373	Fashion Illustration and Computer Applications	3	-	3
TAMM 375	Visual Merchandising and Styling	3	-	3
TAMM 376	Principles of Retail Math and Buying	3	-	3
MKTG 300	Principles of Marketing	-	3	3
FINC 309	Principles of Finance	-	3	3
TAMM 377	Apparel Design	-	3	3
Elective	Elective	-	3	3
Elective	Elective	-	3	3
<b>Totals</b>		<b>15</b>	<b>15</b>	<b>30</b>
<b>SENIOR YEAR</b>				
FACS 342	Occupational Family and Consumer Sciences	3	-	3
TAMM 379	Trends and Concepts	3	-	3
Restricted	Restricted Elective (FACS Course Only)	3	-	3
FACS Elective	FACS Elective	3	-	3
Elective	Elective	2	-	2
FCCS 402	Decision Making Processes in Modern Lifestyles	-	3	3
FACS 440	Contemporary Approach to Curriculum & Techniques	-	3	3

TAMM 477	Senior Seminar and Professional Development	-	3	3
TAMM 478	Apparel Production Development	-	3	3
TAMM 479	Fashion Promotion & Event Planning	-	3	3
<b>TOTALS</b>		<b>14</b>	<b>15</b>	<b>29</b>

**Substitutions must be approved by College Dean and Department Chair.**

## SUMMARY OF GRADUATION REQUIREMENTS

### Electives:

		SUBJECT AREA	HOURS
<b><u>Science</u></b>			
CHEM 100	Chemistry & Society & Lab	General Education Courses	33
		Major Requirements	59
		Electives	14
<b><u>History</u></b>			
HIST 122	U.S. History I	Other Requirements	15
			<b>TOTAL DEGREE HOURS REQUIRED 121</b>

### English

ENGL 110/111	Composition I & II
ENGL 201	Introduction to Literature

### Humanities

SPEE 214	Introduction to Public Speaking
PHIL 180	Critical Thinking

### Mathematics

MATH 112	Basic Mathematics
MATH 113	Basic Mathematics

### Social Science

PYSC 101	Introduction to Psychology
ECON 210	Principles of Economics

### Business

MKTG 300	Principles of Marketing
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### Global Studies

GE Global	Global Studies
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### Wellness Health

HPER 170	Health and Wellness
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***A grade of "C" or better is required for all Major Courses.***

DIET 310	Human Nutrition
FCCS 102	Individual, Family and Community Services
FACS 141	Perspectives on Professionalism
FACS 201	Consumer Economics
HIDG 161	Principles of Art and Design
TAMM 171	Textiles
TAMM 172	Survey of the Textile and Apparel Industry
TAMM 271	Clothing Construction
TAMM 272	Fashion History
TAMM 274	Fashion Marketing and Merchandising
TAMM 373	Fashion Illustration and Computer Applications
FCCS 402	Decision Making Process in Modern Lifestyles
TAMM 375	Visual Merchandising and Styling
TAMM 376	Principles of Retail Math and Buying
TAMM 377	Apparel Design

TAMM 379 Trends and Concepts  
 FACS 342 Occupational Family & Consumer Sciences  
 FACS 440 Contemporary Approach to Curriculum and Techniques  
 FCCS 402 Decision Making Process in Modern Lifestyles  
 TAMM 478 Apparel Product Development  
 TAMM 479 Fashion Promotion & Event Planning  
 TAMM 477 Senior Seminar and Professional  
 FACS Electives (2)

### **Other Requirements**

SPEE 214 Introduction to Public Speaking  
 ECON 210 Principles of Microeconomics  
 PYSC 101 Introduction to Psychology  
 PYSC 212 Human Growth and Development  
 MKTG 300 Principles of Marketing  
 FINC 309 Principles of Finance

The following general education courses can be substituted for the general education courses listed on the curriculum/program guide. All general education courses denoted by an asterisk require a “C” or better.

### **History**

HIST114 World History I  
 HIST123 US History

### **Humanities**

ARTS199 Art Appreciation\*  
 ARTS200 Arts and Crafts\*  
 ARTS301 World Art Survey I\*  
 ARTS307 Modern Art 1860-1960\*  
 ARTS403 Survey of African American Art\*  
 ARTS405 Survey of African Art\*  
 ARTS407 Survey of Photography\*  
 FREN110 Elementary French I  
 GERM110 Elementary German I  
 PHIL180 Critical Thinking\*  
 PHIL220 Logic  
 PHIL275 Ethics  
 PHIL290 Business Ethics  
 SPAN110 Elementary Spanish  
 SPEE214 Introduction to Public Speaking

### **Global Studies**

ARTS301 World Art Survey I  
 FREN110 Elementary French I  
 FREN110 Elementary French II  
 GERM110 Elementary German I  
 GERM111 Elementary German II  
 SPAN110 Elementary Spanish I

### **Literature**

ENGL202 Intro to African American Literature  
 EGNL210 English Literature I

ENGL212 American Literature I  
 ENGL214 World Literature I

**Wellness/Health**

HPER160 Team Sports  
 HPER165 Personal Fitness  
 HPER166 Beginning Swimming  
 HPER168 Aerobic and Conditioning  
 HPER171 Life Sports I

**Mathematics**

MATH120 College Algebra\*  
 MATH121 College Algebra and Trigonometry  
 MATH122 Finite Mathematics

**Social Sciences**

ECON210 Principles of Microeconomics\*  
 ECON211 Principles of Macroeconomics\*.  
 FACS201 Consumer Economics  
 SOCI101 Introduction to Sociology  
 SCOI102 Introduction to Anthropology  
 PSYC101 Introduction to Psychology\*  
 PSYC212 Human Growth and Development

**Science**

BIOL120 Principles of Biology I + Lab\*  
 CHEM 151 General Chemistry I  
 CHEM153 General Chemistry I Lab\*  
 CHEM100 Chemistry and Society + Lab\*  
 PHYS 112 General Physics I

Note: Students must have a minimum GPA of 2.25 and a “C” or better is required in all Major Courses and General Education denoted with an asterisk to matriculate in this program.

**GENERAL EDUCATION REQUIREMENTS FOR BS DEGREE**

		<b>Semester Hour</b>
<b>HISTORY</b>		
HIST 122	US History I	3
<b>HUMANITIES</b>		
SPEE 214	Introduction to Public Speaking	3
PHIL 180	Critical Thinking	3
<b>GLOBAL STUDIES</b>		
GE	Contemporary Global Studies	3
<b>ENGLISH</b>		
ENGL 110 and 111	Composition I and II	6
<b>WELLNESS/HEALTH</b>		
HPER 170	Health and Wellness	2
<b>MATHEMATICS</b>		
MATH 112	Basic Mathematics I	3
MATH 113	Basic Mathematics II	3
<b>SOCIAL SCIENCE</b>		
PYSC 101	Introduction to Psychology	3

**SCIENCE**  
**CHEM 100**

Chemistry & Society & Lab

4

**TOTAL REQUIREMENTS SEMESTR HOURS: 33.00**

*A single course may simultaneously fulfill a general education requirement and a departmental or major/minor requirement.*

*A single course cannot be used to fulfill more than one general education requirement.*

*Department or major/minor areas may opt to exceed the minimum credit hour requirements above.*

## DEPARTMENT OF HOSPITALITY MANAGEMENT

<b>Chairperson:</b>	Berkita Bradford Gandy Hall, Room 309 804-524-6753
<b>Professors:</b>	Yan (Grace) Zhong
<b>Associate Professor:</b>	Berkita Bradford, Michelle Y. Mosely
<b>Instructor:</b>	Novita Epps
<b>Chef Instructor:</b>	Rose Mangal

### **Description of the Department:**

The Hospitality Industry is the largest private industry worldwide. The VSU Hospitality Management major, upon graduation receives multiple job offers. The Hospitality Management Department experiences placement rates of close to 90% each year for its graduates. There is critical and constant need for qualified talent in the hospitality industry and with the projected growth for the future; companies are in desperate need of entry-level managers with the potential for leadership. This also translates into a need for diversity within the ranks, from the entry level and more importantly through the executive levels, as the face of the nation changes. Minority representation is needed to create balance in the higher echelons of the businesses that comprise the hospitality industry. The curriculum is designed in recognition of the demands of the industry for well-trained and qualified leaders. Students are advised on selection of classes based on their stated career interest. Internship placement will support the area of interest.

The Hospitality Management Department is designed to prepare students for a wide variety of career opportunities in the hospitality industry. The focus of the program is the development of managerial and leadership skills essential to all hospitality managers, with rigorous course work in management of hotels and restaurants, travel tourism, recreation, retail, convention and event planning; food service systems management; marketing; accounting; hospitality law; and general management. Students participate in laboratory experiences and are required to complete two supervised internships to ensure the application of classroom theory to the workplace and to prepare them for the operational challenges of the industry. Students gain added credentials and valuable learning experiences that will allow them to advance their career goals by taking nationally recognized certification courses and participate in professional conferences and study abroad programs.

Upon completion of the bachelor's degree in hospitality management, students should be academically well-rounded professionals, with specialized knowledge, skills and competencies needed to thrive in the continuously changing global hospitality environment. Graduates of the program enjoy management positions in all area of the industry. The Hospitality Management Department is accredited by the Accreditation Commission for Programs in Hospitality Administration (ACPHA) since 1995. The mission of the program is "To prepare students to be effective and empowered hospitality leaders who can assume productive roles in an ever-changing global society." The Hospitality Management core courses are listed below.

### **Mission of the Department**

To educate and prepare students to be informed citizens and leaders who can assume productive roles within the global hospitality industry and the community.

## **Objectives of the Department**

The Hospitality Management program will emerge as a Center of Excellence in Hospitality, which embraces global concepts, leadership, team building behavior and concepts, which are current and relevant to the dynamics of the hospitality industry. The curriculum is designed to develop students' focus on operations management at the property level and prepare them for careers leading to general and executive management.

## **Special Facilities and Equipment**

- Fully equipped instructional learning and production kitchen
- M&M Restaurant operated by culinary students
- Instructional Center of Excellence, fully furnished and equipped
- HMGT Mobile Kitchen

## **Scholarships**

- Thompson Hospitality
- Hilton Worldwide
- Marriott International
- Hyatt Resorts and Hotels
- Hospitality Management Advisory Board – Study Abroad Fund
- Victoria Hospitality
- HIRE
- National Coalition of Black Meeting Planners (NCBMP)
- Greater Richmond Convention and Visitors Bureau
- American Hotel & Lodging Educational Foundation (AH&LEF)
- HSMAI-VA Dee Harris Scholarship

## **Student Organizations**

- Hospitality Management Student Association (HMSA)
- National Society of Minorities in Hospitality (NSMH)
- ETA Sigma Delta International Hospitality Honors Society (ESD)
- HMGT Culinary Club

NOTE: Students majoring in Hospitality Management are required to pass all courses offered in the department (HMGT courses) with a grade of C or better for such grades to count towards their major curriculum requirements for graduation. Additionally, students must receive a C or better in English 110 and 110 for their grades to count towards their requirements for graduation.

**HOSPITALITY MANAGEMENT DEPARTMENT**  
**Course Descriptions**

**HMGMT 101 INTRODUCTION TO HOSPITALITY MANAGEMENT - 3 semester hours**

A historical overview of the hospitality and tourism industry and its economic significance. Forms of organization and development, theories; trends and issues will be explored. Students will be exposed to professional opportunities and leadership development through involvement of industry executives and field trips.

**HMGMT 107 FOOD SANITATION AND SAFETY - 3 semester hours**

This course introduces the basic principles of food sanitation and safety and their relationship to the hospitality industry. Topics include personal hygiene, sanitation and safety regulations, use and care of equipment, the principles of food-borne illness, and other related topics. Upon completion, students should be able to demonstrate an understanding of food sanitation and safety in the hospitality industry.

**HMGMT 102 PROFESSIONAL DEVELOPMENT - 3 semester hour**

This is the first in the series of courses designed to provide exposure to the competencies required for success in the hospitality industry. The focus will be on improving the “soft skills” of the undergraduate in preparation for careers in the industry. Content includes, but is not limited to; Realities of the workplace, professional code of conduct, business and dining etiquette, dress code for success, field trips and HMP association membership mandatory. Sections offered in the second semester of the freshman year.

**Prerequisites: HMGMT 101 Introduction to Hospitality Management**

**HMGMT 200 TOURISM MANAGEMENT - 3 semester hours**

A survey of travel and tourism concepts and management tools in the United States and internationally. Emphasis will be placed on terminologies, demographics, economics, socio-cultural and environmental impacts of travel and tourism, and the industry’s management issues in a global context.

**Prerequisites: HMGMT 101 Introduction to Hospitality Management**

**HMGMT 201 HOSPITALITY TECHNOLOGY APPLICATIONS - 3 semester hour**

An exploration of hospitality management information systems, computer software applications and their impact on the hospitality industry. Provides familiarization with property management systems and software programs used in the management of various hospitality entities.

**Prerequisites: HMGMT 101 Introduction to Hospitality Management**

**HMGMT 203 LODGING MANAGEMENT - 3 semester hours**

Study of the fundamental processes underlying the operation of lodging facilities, an analysis of all lodging brands, ratings, and classifications. The operation of the front office is emphasized and its relationship to guest service, reservations, housekeeping, coordination, maintenance of the folio, computer applications, and procedures needed for night auditing. Particular emphases are on selling strategies of forecasting, rate efficiencies, and guest relations.

**Prerequisites: HMGMT 101 Introduction to Hospitality Management**

**HMGMT 221 PRINCIPLES OF FOOD PREPARATION - 3 semester hours**

Study of the fundamental processes underlying food selection, preparation and preservation with practical selection application through laboratory experiences. Emphasis is on the composition and properties of food, food handling to retain nutrients, standards for acceptable products and food costs. Laboratory supplies are required.

**Prerequisites: HMGMT 101 Introduction to Hospitality Management**  
**HMGMT 107 Food Sanitation and Safety**

**MMGT 223 INTRODUCTION TO BAKING AND PASTRY - 3 semester hours**

Lecture and production of basic breads and rolls, desserts and pastry creations. Covers proofing, baking temperatures, muffins, quick breads, cakes, cookies and pies. Use of liquid measurements, scales, and equipment identification.

**Prerequisites:** HMGMT 107 Food Sanitation and Safety  
HMGMT 221 Principles of Food Preparation

**HMGMT 299 INTERNSHIP IN HOSPITALITY MANAGEMENT I - 1 semester hour**

Designed to provide sophomore students with a developmental approach to on the job experiences in a hospitality facility/setting under a qualified supervisor. It may be done during the summer or during semesters following the sophomore year. 160 clock hours required.

**Prerequisites:** HMGMT 101 Introduction to Hospitality Management  
HMGMT 102 Professional Development

**HMGMT 300 INTERNATIONAL STUDY TOUR - 3 semester hours**

ELECTIVE: The international Study Tour is designed to add another level of experiential learning to the hospitality management curriculum. This course will use the world as a classroom for the education of the HMP student through travel and explorations. Tours will be arranged to a variety of tourist destinations to allow for exposure to a wide range of experiences.

**Prerequisites:** HMGMT 101 Introduction to Hospitality Management  
HMGMT 200 Tourism Management

**HMGMT 301 LODGING OPERATIONS MANAGEMENT - 3 semester hours**

A course designed to show emphasis on the highly complex nature of the housekeeping department. It provides students with the managerial tools needed to handle this function with professionalism. It involves studies of the challenges associated with logistics and quality controls and purchasing to ensure efficiency in operation as well as customer satisfaction. Requires heavy usage of property management systems, (PMS).

**Prerequisites:** HMGMT 203 Lodging Management

**HMGMT 302 CATERING AND EVENT MANAGEMENT - 3 semester hours**

ELECTIVE: This course will focus on two major areas: Off-premise and on premise catering for social and business functions, and the management of large scale, special events, such as sporting events and artistic performances. A significant portion of the class will be dedicated to catered function and special events planning, design, and execution. Other topics will include: organizational structure, legal aspects of catering and special events management product and service development, marketing and sales, staff development, post-event analysis and evaluating the financial success of catering and special event business.

**Prerequisites:** HMGMT 107 Food Sanitation and Safety  
HMGMT 221 Principles of Food Preparation

**HMGMT 303 HOSPITALITY LAW AND ETHICS - 3 semester hours**

Examination of laws and regulations which exert control on foodservice, lodging and tourism industries. Local, state and federal laws applicable to the operation of the hospitality industries will be analyzed. The innkeeper / guest relationship and liability issues impacting ownership and management of employees will also be examined. Bailment, agency and contracts are presented in the context of the hospitality and tourism enterprises.

**Prerequisites:** HMGMT 101 Introduction to Hospitality Management  
HMGMT 200 Tourism Management

**HMGT 304 FOOD AND BEVERAGE CONTROL - 3 semester hours**

An analysis of factors and techniques used to control food cost and generate revenues. This course addresses requisite competencies related to the application of cost control systems and the development and implementation and evaluation of such mechanisms. Includes inventory and supplies management.

**Prerequisites:** HMGT 221 Principles of Food Preparation

**HMGT 305 HOSPITALITY MANAGEMENT CONTRACTS - 3 semester hours**

ELECTIVE: A critical analysis of the negotiation and administration of hospitality management contracts. Topics include contracts, risks and their advantage and disadvantages; owner and ethical issues during negotiation and administration of the contract, and the future role of contract use.

**Prerequisite:** HMGT 303-Hospitality Law and Ethics

**HMGT 306 FINANCIAL MANAGEMENT AND PLANNING - 3 semester hours**

ELECTIVE: An examination of the techniques of financial analysis and planning, with discussions on the tax environment, profit planning and forecasting, budgeting, capital budgeting techniques and cost-of-capital determinations.

**Prerequisite:** ACCT 200 Introduction to Financial & Managerial Accounting

**HMGT 310 SECURITY AND LOSS PREVENTION MANAGEMENT - 3 semester hours**

ELECTIVE: This course will constitute the development of security and loss prevention programs. It examines risk management and security processes and insurance details from a lodging perspective and looks at security equipment, technology and the overall protection of guests, employees and physical assets of the property.

**Prerequisites:** HMGT 201 Hospitality Application Technology  
HMGT 203 Lodging Management  
HMGT 301 Lodging Operations Management

**HMGT 320 TOURISM DEVELOPMENT - 3 semester hours**

ELECTIVE: Relationship of economic theory and planning principles, processes, and policies of sustainable tourism development; application of pre-feasibility analysis to tourism development projects. Special emphasis placed on economic, socio-cultural and environmental trends in tourism development. This course requires extensive interaction with tourism organizations through field trips, guest lectures and cooperative projects.

**Prerequisites:** HMGT 200 Tourism Management  
ECON 210 Principles of Microeconomics

**HMGT 321 SERVICE MANAGEMENT - 3 semester hours**

ELECTIVE: An evaluation of the service industry, history, current status, trends and futurism. Students will develop a deep understanding of the management principles and challenges unique to the service industries. Emphasis will be placed on the characteristics and operations of service delivery systems, management and organizations. The main course goal is to develop critical analytic skills and knowledge needed to implement service strategies for competitive advantage.

**Prerequisites:** HMGT 203 Lodging Management  
HMGT 301 Lodging Operations Management

**HMGT 322 MEAL MANAGEMENT - 3 semester hours**

Menu development, styles of meal service, table appointments, food presentation, meal planning and service. Emphasis is given to the economics, efficiency and aesthetics of meal service. Menu planning and cost analysis of menus required, marketing of goods and services are key components. The operation of M & M Restaurant, the Trojan Room (faculty dining room) and/or childcare meal preparation are required. Laboratory supplies needed.

**Prerequisites:** HMGT 107 Food Sanitation and Safety  
HMGT 221 Principles of Food Preparation

### **HMGT 324 INTRODUCTION TO BEVERAGE SERVICE - 3 semester hours**

An introduction to beverages; this course provides specialized training for students interested in pursuing management careers in the food and beverage industry. Lecture topics will include what the consumer needs to know to purchase wine in retail outlets and in a restaurant setting, pairing wine with food, responsible drinking, selecting quality wines and wine etiquette. Different types of alcoholic and non-alcoholic beverages, coffee, tea and water will be evaluated in a controlled environment. This course is restricted to hospitality majors / minors and will be conducted at onsite and off-site locations.

**Prerequisites:** HMGT 221 Principles of Food Preparation  
HMGT 304 Food and Beverage Control  
HMGT 322 Meal Management

### **HMGT 325 CULTURE AND CUISINE - 3 semester hours**

**ELECTIVE:** An introduction to world cooking techniques including braising, stewing, grilling, and roasting. Lectures and demonstrations revolve around European, North, Central, and South American cuisine, ingredients and plate presentations and service.

**Prerequisites:** HMGT 221 Principles of Food Preparation  
HMGT 322 Meal Management

### **HMGT 326 GARDE MANGER - 3 semester hours**

**ELECTIVE:** Students will be introduced to traditional and modern preparation techniques of cold entrees, pates, terrines, and galantines. Students plan, organize and set up buffet displays. The course concentrates on the practical techniques of platter presentation and management of related equipment and service ware.

**Prerequisites:** HMGT 107 Food Sanitation and Safety  
HMGT 221 Principles of Food Preparation

### **HMGT 330 INTERNATIONAL HOSPITALITY MANAGEMENT - 3 semester hours**

This course is designed to provide students with basic understanding of international hospitality management and operations. It presents an overview of the historic perspectives of globalization, tourism and the lodging sector. Students will investigate the emergence of international hotels and their classifications and standards. Cultural diversity, human resources, marketing and global competition, politics of travel, trends in investment and financing international hotel projects will be addressed. Students taking this class are required to participate in one International Study Tour.

**Prerequisites:** HMGT 200 Tourism Management  
HMGT 203 Lodging Management  
HMGT 300 International Study Tour

### **HMGT 333 QUALITY MANAGEMENT - 3 semester hours**

**ELECTIVE:** This course explores the concepts of total quality management and various quality measurements indices in relationship to high performance organizations. Concepts such as ISO9000, Malcolm Baldrige, continuous improvement, empowerment, goal setting, conflict management, change management and diversity will be addressed.

**Prerequisites:** HMGT 201 Hospitality Application Technology  
HMGT 203 Lodging Management  
HMGT 301 Lodging Operations Management

### **HMGT 349 INTERNSHIP IN HOSPITALITY MANAGEMENT II – 2 semester hours**

This is a continuation of the internship series to be taken after completion of sophomore year. Students will be in the employ of a hospitality business and rotate throughout at least three departments /areas over the term of the internship. This will allow the students practical application of concepts learned in class and exposure to the different facets of this diverse global industry. 360 clock hours are required

**Prerequisite:** HMGT 299 Hospitality Management Internship I

**HMGT 350 GAMING AND CRUISE-SHIP OPERATIONS - 3 semester hours**

ELECTIVE: The cruise course will present an introduction to the cruise line and gaming industry. It will address the history and development of cruises and distinguish between sea based and land-based operations and provide information on the cruise sales, marketing and operations. Gaming will include the development of gaming, a survey of gaming destinations and casino management and examines gaming as a social phenomenon, its legal issues and economic impact.

**Prerequisites:** HMGT 201 Hospitality Application Technology  
HMGT 203 Lodging Management  
HMGT 301 Lodging Operations Management

**HMGT 399 INTERNSHIPS IN HOSPITALITY MANAGEMENT III - 3 semester hours**

Internship for students in HMGT to be taken during the summer or the semester following the completion of the junior year. Designed to provide junior level students with decision making and experiential learning experiences in a hospitality industry. 480 clock hours are required.

**Prerequisite:** HMGT 299 Hospitality Management Internship I  
HMGT 349 Hospitality Management Internship II  
and all junior HMGT courses.

**HMGT 400 ROOMS DIVISION MANAGEMENT - 3 semester hours**

Design of a business plan and evaluation of business performance based on quality measurement indicators. This course integrates the concepts of management with the development of communication skills and decision making practices in the rooms division. Emphasis is placed on the development of management personnel in hospitality operations and techniques of financial planning and property analysis.

**Prerequisites:** HMGT 203 Lodging Management  
HMGT 301 Lodging Operations Management

**HMGT 402 HOSPITALITY HUMAN RESOURCE MANAGEMENT - 3 semester hours**

Students obtain working knowledge of the terminology, concepts and procedures used by hospitality managers in developing information and making decisions relevant to forecasting and controlling human resource requirements. Major topics: staff planning, budgeting, scheduling and payroll, control collective bargaining consideration, productivity, human behavior, job design, recruitment, selection and retention system.

**Prerequisite:** Senior standing  
HMGT 303 Hospitality Law and Ethics

**HMGT 404 HOSPITALITY ACCOUNTING AND PURCHASING - 3 semester hours**

Essentials of hospitality accounting controls from both the operational and corporate perspectives. Practice with typical methods of costing, rational analysis found in the hospitality industry as well as computer applications are included. Specific topics include: uniform system accounts, revenue and expense tracking, cost controls, comparative analysis and management of the purchasing function.

**Prerequisite:** ACCT 200 Introduction to Finance & Managerial Accounting

**HMGT 407 CONFERENCE AND EXPOSITION MANAGEMENT - 3 semester hours**

A course designed to provide students with a basic understanding of the scope and processes of meetings, conferences and exposition/exhibition management. Students will be required to research, design, plan, coordinate, and evaluate both professional domestic and international conferences and expositions. This will include roles in budgeting, operations and evaluation of conference services. (Note: Industry professionals will be featured speakers).

**Prerequisite:** HMGT 203 Lodging Management  
HMGT 303 Hospitality Law and Ethics  
HMGT 322 Meal Management or junior standing.

**HMG 409 HOSPITALITY FACILITIES MANAGEMENT AND PLANNING - 3 semester hours**

The scientific principles and regulations guiding the layout and design for efficient management of hotels, restaurants and institutional facilities. Management and organization of facility operations and preventive maintenance, as well as energy management programs will be emphasized.

**Prerequisite:** HMG 203 Lodging Management  
HMG 322 Meal Management and junior standing

**HMG 420 RESORT MANAGEMENT - 3 semester hours**

The study of principles and practices of the management procedures and leadership role in resorts and private clubs. This course provides a comprehensive approach to the operation of a resort with entertainment and recreational facilities. Vacation ownership, condominium concept and current trends and developments in resort developments will be addressed.

**Prerequisites:** HMG 400 Rooms Division Management

**HMG 430 REVENUE MANAGEMENT AND STRATEGIC PLANNING - 3 semester hours**

This course examines the principles of yield management from a strategic planning standpoint. Factors including yield management techniques and strategy formulation, content development, implementation, and evaluation in diverse hospitality operations.

**Prerequisites:** HMG 400 Rooms Division Management  
HMG 404 Hospitality Accounting and Purchasing

**HMG 432 ADVANCED FOOD PREPARATION - 3 semester hours**

Students are introduced to more in depth cooking techniques, preparatory skills, and inventory evaluation. Lecture, demonstration and production focuses on store room procedures, inventory systems, meat butchery and plate presentation.

**Prerequisites:** HMG 221 Principles of Food Preparation  
HMG 304-Food and Beverage Control  
HMG 322-Meal Management

**HMG 433 QUANTITY FOODS - 3 semester hours**

Study and practice in planning, purchasing, preparing and serving food in quantities, calculating the cost of portions and meals for large groups, and calculating profit and loss statements given the operations of special enterprises. Laboratory supplies, project planning, organizing, implementation and evaluation are required.

**Prerequisite:** HMG 322 Meal Management

**HMG 435 ORGANIZATIONAL LEADERSHIP, MANAGEMENT AND DECISION-MAKING - 3 semester hours**

This course provides students with the tools necessary to succeed in the dynamic and ever -changing global hospitality industry. Includes focus on the principles of management and leadership, total quality management (TQM) and empowerment models in the hospitality industry. Quantitative aspects of management and internal controls will be addressed, with an overview of managerial and financial concepts used in the decision-making process.

**Prerequisite:** HMG 402 Hospitality Human Resources Management  
HMG 404 Hospitality Accounting and Purchasing

**HMG 440 CONTEMPORARY ISSUES IN HOSPITALITY MANAGEMENT - 3 semester hours**

**ELECTIVE:** This course is a study of current trends and issues facing the hospitality industry. Students will participate in active research of current interest topics and community based service learning projects.

**Prerequisites:** HMG 201 Hospitality Application Technology  
HMG 203 Lodging Management  
HMG 301 Lodging Operations Management

**HMG 444 HOSPITALITY AND TOURISM RESEARCH - 3 semester hours**

ELECTIVE: Exposition of quantitative and qualitative hospitality and tourism research methods and their applications to lodging, foodservice and tourism management. Primary emphasis on how survey research methods can be used to generate the information needed to improve management and marketing decisions.

**Prerequisites:** HMG 200 Tourism Management

HMG 203 Lodging Management

HMG 435 Organizational Leadership & Management Decision-Making

STAT 210 Elementary Statistics

**HMG 449 HOSPITALITY MARKETING MANAGEMENT - 3 semester hours**

An overview of the design and delivery of a marketing plan, concepts and techniques employed in marketing hospitality and tourism industry services to achieve guest satisfaction and competitive distinctiveness. Probes will be made into the techniques of evaluation and the analysis of service marketing, and its application to the hospitality and tourism industries.

**Prerequisite:** HMG 303 Hospitality Law and Ethics and Junior standing

**HMG 450 SENIOR SEMINAR - 3 semester hours**

A capstone course designed to apply technical, human and conceptual knowledge to solve current problems related to the hospitality industry. The course includes activities that will allow students to study and analyze critical requirements of the hospitality industry. Current issues related to managing and measuring service quality, current concepts and leadership qualities are the major emphasis. There will be a strong research component where the student will be required to conduct research and produce findings in the form of a report and presentation in a formal setting, typical of the hospitality business profession.

**Prerequisite:** All required HMG courses

**HMG 455 HOSPITALITY MANAGEMENT INDEPENDENT STUDY – 1-6 semester hours**

This course will allow the working Hospitality Management senior to complete the graduation requirements independently in an emerging and/or state-of-the-art hospitality or related area by investing a problem or topic of interest in his/her area of specialization.

**Prerequisite:** Senior Standing

**HMG 499 HOSPITALITY MANAGEMENT SEMINAR - 3 semester hours**

ELECTIVE: Exploration of three topics: Managing and Measuring Service Quality, Current Trends in Hospitality Administration and Leadership in the Hospitality Industry. Case studies, decision-making simulations are used as critical tools to learning and application.

**Prerequisite:** All required HMG courses

**DEPARTMENT OF HOSPITALITY MANAGEMENT**  
**Bachelor of Science Degree**  
**B.S. Hospitality Management (120hrs)**  
**COMPREHENSIVE DEGREE**

		<b>Semester Hours</b>		
		<b>1st</b>	<b>2nd</b>	<b>Total</b>
		<b>Sem</b>	<b>Sem</b>	<b>Hours</b>
<b>FRESHMAN YEAR</b>				
HMGT 101	Introduction to Hospitality	3	-	3
ENGL 110	Composition I	3	-	3
MATH 112	Basic Mathematics I	3	-	3
HIST 122/123	United States History	3	-	3
HMGT 107	Food Sanitation and Safety	3	-	3
ENGL 111	Composition II	-	3	3
MATH 113	Basic Mathematics II	-	3	3
HMGT 102	Professional Development	-	3	3
HMGT 299	Internship I (160)	-	1	1
BIOL 116	Biological Science/Lab	-	4	4
HPER 170	Health and Wellness	-	2	2
<b>Totals</b>		<b>15</b>	<b>16</b>	<b>31</b>
<b>SOPHOMORE YEAR</b>				
ENGL 201	Introduction to Literature	3	-	3
ECON 210	Principles of Microeconomics	3	-	3
PSYC 101	Introduction to Psychology	3	-	3
HMGT 201	Hospitality Technology Applications	3	-	3
HMGT 200	Tourism Management	3	-	3
DIET 101	Nutrition Contemporary Health	-	3	3
HMGT 203	Lodging Management	-	3	3
HMGT 221	Principles of Food Preparation	-	3	3
SPEE 214	Introduction to Public Speaking	-	3	3
STAT 210	Statistics	-	3	3
HMGT 349	Internship II (360)	-	2	2
<b>Totals</b>		<b>15</b>	<b>17</b>	<b>32</b>
<b>JUNIOR YEAR</b>				
Global Elective	Spanish/French	3	-	3
ACCT 200	Intro to Fin & Managerial Accounting	3	-	3
GEEN 310	Advanced Communication Skills	3	-	3
HMGT 322	Meal Management	3	-	3
Elective	Free Elective	3	-	3
HMGT 301	Lodging Operations Management	-	3	3
HMGT 303	Hospitality Law & Ethics	-	3	3
HMGT	Hospitality Restrictive Elective	-	3	3
HMGT 399	Internship III (480)	-	3	3
<b>Totals</b>		<b>15</b>	<b>12</b>	<b>27</b>
<b>SENIOR YEAR</b>				
Elective	Free Elective	3	-	3
HMGT 404	Hospitality Accounting & Purchasing	3	-	3
HMGT 409	Hospitality Facilities Management	3	-	3
HMGT 402	Hospitality Human Resource Management	3	-	3
HMGT	Restrictive Elective	3	-	3
HMGT 435	Leadership, Mgmt & Decision-Making	-	3	3
HMGT	Restrictive Elective	-	3	3
HMGT 407	Conference & Exposition Management	-	3	3
HMGT 449	Hospitality Marketing Management	-	3	3
HMGT 450	Senior Seminar	-	3	3
<b>Totals</b>		<b>15</b>	<b>15</b>	<b>30</b>

## SUMMARY OF GRADUATION REQUIREMENTS

### Hospitality Management Summary of Graduation Requirements

**Electives: 33**

<u>Sciences</u>	SUBJECT AREA	HOURS
BIOL 116	Biological Science/Lab	
	General Education Courses	33
	Major Requirements	66
	Electives	15
	Other Requirements	6
<b><u>History</u></b>		
HIST 122	United States History	
<b><u>Social Science</u></b>		
PSYC 101	Introduction to Psychology	
ECON 210	Principles of microeconomics	
<b><u>Science</u></b>		
DIET 101	Nutrition Contemporary Health	
<b><u>Humanities</u></b>		
SPAN 110	Elementary Spanish	
FREN 110	Elementary French	
<b><u>Literature</u></b>		
ENGL 110	Compositions I	
ENGL 111	Compositions II	
SPEE 214	Introduction to Public Speaking	
<b><u>Mathematics</u></b>		
MATH 112	Basic Mathematics	
MATH 113	Basic Mathematics	
MATH 120	College Algebra	
STAT 210	Statistics	
<b><u>Global Studies</u></b>		
SPAN 110	Elementary Spanish	
<b><u>Wellness Health</u></b>		
HPER 170	Health and Wellness	

**OTHER REQUIREMENTS:**

ACCT 200 – Introduction to Financial & Managerial Accounting

\*\*Note: Students must have a minimum GPA of 2.3 to matriculate in this program\*\*

**GENERAL EDUCATION REQUIREMENTS FOR B.S. DEGREE**

<b>History 3.00 semester hours required from the below menu</b>			
S.H.	Course	Number	Course Title
3.00	HIST	122/122	US History I
3.00	HIST	341	African American History
<b>Humanities 3.00 semester hours required from the below menu</b>			
S.H.	Course	Number	Course Title
3.00	SPEE	214	Introduction to Public Speaking
<b>Global Studies 3.00 semester hours required from the below menu</b>			
S.H.	Course	Number	Course Title
3.00	FREN / SPAN	110	Elementary French I or Elementary Spanish
<b>English 6.00 semester hours required from the below menu (Minimum grade of 'C')</b>			
S.H.	Course	Number	Course Title
3.00	ENGL	110	Composition I
3.00	ENGL	111	Composition II
<b>Literature 3.00 semester hours required from the below menu</b>			
S.H.	Course	Number	Course Title
3.00	ENGL	201	Introduction to Literature
<b>Wellness/Health 2.00 semester hours required from the below menu</b>			
S.H.	Course	Number	Course Title
2.00	HPER	170	Health and Wellness
<b>Mathematics 6.00 semester hours required from the below menu</b>			
S.H.	Course	Number	Course Title
3.00	MATH	112	Basic Mathematics I
3.00	MATH	113	Basic Mathematics II
3.00	MATH	120	College Algebra
3.00	STAT	210	Statistics
<b>Social Science 3.00 semester hours required from the below menu</b>			
S.H.	Course	Number	Course Title
3.00	PHYC	101	Introduction to Psychology
3.00	ECON	210	Principles of Microeconomics
3.00	ECON	211	Principles of Microeconomics
<b>Science 4.00 semester hours required from the below menu</b>			
S.H.	Course	Number	Course Title
3.00	DIET	101	Nutrition Contemporary Health & Lab
3.00	DIET	310	Human Nutrition
4.00	BIOL	116	Biological Science & Lab
4.00	GEES	181	Earth Sciences and Lab

# Reginald F. Lewis College of Business

**Dean:** Emmanuel O. Omojokun  
106A Singleton Hall  
804-524-6719  
[eomojokun@vsu.edu](mailto:eomojokun@vsu.edu)

**Associate Dean:** Venkatapparao Mummalaneni  
106B Singleton Hall  
804-524-5782  
[vmummalaneni@vsu.edu](mailto:vmummalaneni@vsu.edu)

## Mission Statement

To prepare innovative, dynamic, and ethical business professionals for Virginia and a global society.

Consistent with our mission, we identify the following focus areas and priorities for student experience in the Reginald F. Lewis College of Business:

- Problem Solving
- Professional Development
- Experiential Learning
- Global Exposure

## Organization of the College

The Reginald F. Lewis College of Business is an academic unit of Virginia State University administered by the Dean with the support of an Associate Dean and three Chairpersons. The College is organized into three departments: the Department of Accounting and Finance, the Department of Computer Information Systems, and the Department of Management and Marketing. Undergraduate programs of the College lead to the degree of Bachelor of Science in the following majors:

- Accounting
- Management Information Systems
- Management
- Marketing

In addition to the three departments, other units in the College are the Office of the Dean, the Assessment Center, Student Advisement Center, Center for Entrepreneurship, and Office of Corporate Relations.

## ADMISSION REQUIREMENTS TO THE REGINALD F. LEWIS COLLEGE OF BUSINESS

The curriculum in the Reginald F. Lewis College of Business is divided into two phases, namely: Pre-Business and Business phases. Business majors are required to earn at least a grade of “C” in ENGL 110, ENGL 111 and all Business courses.

### Pre-Business Phase Requirements

The pre-business phase consists of 60 credit hours of course work consisting of primarily General Education curriculum. Students are required to maintain minimum GPA of 2.25 in the pre-business phase before being admitted to the Business Phase.

### Pre-Business Phase Curriculum Requirements

The following curriculum outlines the course of study for all majors in the Reginald F. Lewis College of Business for the freshman and sophomore years.

<b>Semester 1</b>		<b>Hrs</b>
ENGL 110	Composition I	3
MATH 120	College Algebra & Trigonometry	3
	Natural Science Elective	3
	Natural Science Elective Lab	1
COBU 101	Introduction to Business	3
	Social Science Elective	3
<b>TOTAL HOURS</b>		<b>16</b>

<b>Semester 2</b>		<b>Hrs</b>
ENGL 111	Composition II	3
MATH 122	Finite Mathematics	3
COBU 111	Professional Enhancement/Career Development	1
	History Elective	3
	Health & Physical Education Elective	2
COBU 155	Introduction to Information Systems/ Element K	2
<b>TOTAL HOURS</b>		<b>14</b>

<b>Semester 3</b>		<b>Hrs</b>
COBU 170	Legal, Ethical & Digital Environment	3
COBU 200	Business Communications	3
COBU 201	Introduction to Accounting I	3
COBU 210	Financial Economics	3
MATH 212	Introduction to Calculus	3
<b>TOTAL HOURS</b>		<b>15</b>

<b>Semester 4</b>		<b>Hrs</b>
COBU 202	Introduction to Accounting II	3
COBU 220	Financial Managerial Economics	3
COBU 260	Business Statistics	3
	Humanities Elective	3
	Literature Elective	3
<b>TOTAL HOURS</b>		<b>15</b>

## PRE-BUSINESS PHASE ELECTIVES

### *Sciences Electives*

BIOL 116	Biological Science & Laboratory (4 credits)
CHEM 100	Chemistry and Society & Laboratory (4 credits)

### *Wellness Health*

HPER 170	Health and Wellness (2 credits)
HPER 166	Beginning Swimming (1 credit)
HPER 171	Lifetime Sports (1 credit)

### *History Electives*

HIST 114	World History I
HIST 115	World History II
HIST 122	US History I
HIST 123	US History II

### *Social Science Electives*

PSYC 101	Introduction to Psychology
SOCI 101	Introduction to Sociology
SOCI 102	Introduction to Anthropology

### *Literature Electives*

ENGL 201	Introduction to Literature
ENGL 202	Introduction to African American Literature
ENGL 210	English Literature I
ENGL 211	English Literature II
ENGL 212	American Literature I
ENGL 213	American Literature II
ENGL 214	World Literature I
ENGL 215	World Literature II

### *Humanities Elective*

ARTS 199	Art Appreciation
DANC 100	Foundations of Dance
DRAM 199	Drama Appreciation
ENGL 201	Introduction to Literature
ENGL 202	Introduction to African American Literature
ENGL 210	English Literature I
ENGL 211	English Literature II
ENGL 212	American Literature I
ENGL 213	American Literature II
ENGL 214	World Literature I
ENGL 215	World Literature II
FREN 110	Elementary French I
MUSI 199	Music Appreciation
MUSI 200	Blacks in American Music
PHIL 180	Critical Thinking
SPAN 110	Elementary Spanish I
SPEE 214	Introduction to Public Speaking

### *Global Studies Electives*

AGRI 295	Contemporary Global Studies
ARAB 110	Elementary Arabic I
ENGL 214	World Literature I

FREN 110	Elementary French I
GEOG 210	World Geography
GERM 110	Elementary German I
HIST 114	World History I
HIST 115	World History II
IDUP 270	Introduction to Africana Studies
MUSI 199	Music Appreciation
POLI 207	International Relations
POLI 210	Comparative Government
SPAN 110	Elementary Spanish I

## **CORE BUSINESS COURSE DESCRIPTIONS**

All business students are required to take a set of common courses in addition to courses required by their respective majors. These courses provide the breadth knowledge and lay the foundation for successful business careers.

### **COBU 101 INTRODUCTION TO BUSINESS - 3 semester hours**

For Business Majors only. This course introduces the student to the fundamental principles of business, organizations, finance, banking, credit management, salesmanship, advertising, ecology and consumers. The student will be able to relate/work with real world examples in higher-level courses with an emphasis on use of the library (information literacy), research skills, writing skills, critical thinking, and the synthesis and analysis of information.

### **COBU 111 PROFESSIONAL ENHANCEMENT/CAREER DEVELOPMENT-1 semester hour**

For Business Majors only. This course is designed to aid students in becoming competitive in today's dynamic environment by providing students with the necessary skills and resources to be successful as they enter the corporate arena and develop their career.

**Prerequisite(s): COBU 101**

### **COBU 155 INTRODUCTION TO INFORMATION SYSTEMS/ELEM-K -2 semester hours**

This course is designed to introduce the student to the basic concepts and procedures required in the development and use of computer based management information systems. Topics include: overview of computer concepts and computer literacy, computer hardware, computer software, and data communications. It provides a hands-on experience on four specific computer application packages: word processing, spreadsheets, database, and presentation graphics.

**Prerequisite: High school algebra or equivalent**

### **COBU 170 LEGAL, ETHICAL AND DIGITAL ENVIRONMENT - 3 semester hours**

For Business Majors only. This course is an introduction to the background, role, structure, and importance of the legal system of the United States of America. Civil procedure, tort law, administrative law, bankruptcy and criminal law will be surveyed. Other areas of the law to be treated in more depth include contracts, personal property and bailments, intellectual property and piracy, real property, agency, as well as the ethics of managers and the social responsibility of business.

**Prerequisite: COBU 101**

### **COBU 200 BUSINESS COMMUNICATIONS – 3 semester hours**

For Business Majors only. Designed to improve practical communication, both written and oral. Students learn business style and formats (the letter, memo, resume, and report), as well as strategies for presenting neutral, negative, and persuasive messages. Students will speak on business or professional topics.

**Prerequisites: ENGL 111 or equivalent.**

**COBU 201 INTRODUCTORY ACCOUNTING I - 3 semester hours**

For Business Majors and Minors only. This course is a study of fundamental principles of financial accounting as applied to the contemporary business environment. Problems of measuring and reporting income, assets, liabilities, and equity as shown on financial statements are discussed.

**Prerequisite: COBU 101 and MATH 120 or equivalent**

**COBU 202 INTRODUCTORY ACCOUNTING II - 3 semester hours**

For Business Majors and Minors only. This course is a study of introductory management accounting principles as applied to the competitive business environment. Emphasis is on using data from an organization's management information system to formulate and implement business strategy.

**Prerequisite: COBU 201**

**COBU 210 FINANCIAL ECONOMICS – 3 semester hours**

For Business Majors only. An introductory course on the principles of economics, covering macroeconomic concepts, theory, analysis, and applications.

**COBU 211 CAREER LAUNCH - 1 semester hour**

For Second Semester Junior and Senior Business Majors Only. This course is designed to make students competitive in today's dynamic job market. It will cover all professional career areas including job search, interviewing, etiquette, resume and business writing, and behavior and attitudes, and provide students the necessary skills and resources to be successful in finding and keeping a professional position. This course cannot be used to satisfy a business elective.

**Prerequisite(s): COBU 111 - Professional Enhancement/Career Development**

**COBU 220 FINANCIAL MANAGERIAL ECONOMICS - 3 semester hours**

For Business Majors only. This course covers the fundamental economic principles essential for applied business decisions from micro business perspectives.

**Prerequisite(s): COBU 210**

**COBU 260 BUSINESS STATISTICS - 3 semester hours**

For Business Majors only. Introduction to the use of statistical methods as a scientific tool in the analysis of problems in business and economics. Coverage will include probability, probability distributions, measures of central tendency and dispersions, sampling distributions, and estimation. Methods include hypothesis testing, regression and correlation, ANOVA and Chi square tests.

**Prerequisites: COBU 155 and MATH 122 or its equivalent**

**COBU 300 PRINCIPLES OF FINANCE - 3 semester hours**

For Business Majors only. Students are exposed to the field of finance including financial concepts, financial analysis, decisions involving long-term assets, sources and forms of long-term financing, international financial markets and issues, as well as selected ethical and social issues related to finance.

**Prerequisites: COBU 202 and Completion of the Pre-Business Phase requirements or equivalent.**

**Co-requisite: Must take as cohort with COBU 301 Principles of Marketing and COBU 302 Organization and Management.**

**COBU 301 PRINCIPLES OF MARKETING - 3 semester hours**

For Business Majors only. This course is designed to cover the basic concepts of marketing management in consumer and industrial markets, and the formulation of marketing strategies relating to products, channels of distribution, promotion, and price. The course seeks to promote a managerial approach to solving marketing problems and reviews the fundamental marketing institutions, with an awareness of ethical considerations and the global environment.

**Prerequisites: Completion of the Pre-Business Phase requirements or equivalent.**

**Co-requisite: Must take as cohort with COBU 300 Principles of Finance and COBU 302 Organization and Management.**

**COBU 302 ORGANIZATION AND MANAGEMENT - 3 semester hours**

For Business Majors only. This course provides an overview of the many aspects of managing organizations. Emphasis will be placed on management processes, human behavior in organizations and applications of classroom knowledge to actual challenges facing managers. The application of management concepts will be practiced using such activities as case studies, team projects, decision making exercises, presentations, and active in-class discussion of current management issues.

**Prerequisite(s): Completion of the Pre-Business Phase requirements.**

**Co-requisites: Must be taken as a cohort with COBU 300 Principles of Finance and COBU 301 Principles of Marketing.**

**COBU 306 BUSINESS ANALYTICS – 3 semester hours**

This introductory course will familiarize students with sources data, statistical tools and software available for managerial analysis. Topics to be covered include: descriptive statistics; integration of data from graphs, tables, and databases; markup and markdown; breakeven analysis; graphing; and data visualization. Problems and cases will be drawn from functional areas such as finance, human resources and marketing.

**Prerequisite: COBU 260 or permission of the instructor.**

**COBU 342 PRODUCT AND PROCESS PLANNING – 3 semester hours**

For Business Majors only. An overview of the marketing, engineering, financial, and production decisions involved in developing new products and determining the product mix; examination of the theory, tools, and approaches that can be used to assist managers in making effective new product and process decisions; specific topics include consumer behavior, marketing research, optimization techniques, capital budgeting, and product and process design using Total Quality Management; a comprehensive integrative case is used to illustrate these ideas.

**Prerequisite: COBU 260 and Completion of the Pre-Business Phase requirements.**

**COBU 343 PLANNING AND DECISION MAKING IN ORGANIZATIONS –3 semester hours**

For Business Majors only. An overview of the managerial planning process with a focus on business decision making through the collection and analysis of data; decision-making models and approaches, sources of information, value of information, pro-form a financial analysis, and forecasting; a comprehensive integrative case is used to illustrate these ideas.

**Prerequisite: COBU 260 and Completion of the Pre-Business Phase requirements.**

**COBU 400 ORGANIZATIONAL POLICY AND STRATEGY - 3 semester hours**

For Business Majors only. This is the capstone business course. This course is designed to probe the interrelationships of the functional areas within an organization. Students will apply management skills and processes to integrate these areas, make decisions and formulate policies to accomplish organizational goals. A project is an important part of the course that allows students to apply and demonstrate these skills.

**Prerequisites: May only be taken in the final semester of the senior year or with permission of the Management & Marketing Department Chair.**

**BUSINESS PHASE**

The Business phase also consists of 60 credit hours of course work primarily focusing on courses in the student's chosen major. The curriculum for the Business Phase varies across majors. The curricula requirements are described under the respective departments.

## DEPARTMENT OF ACCOUNTING & FINANCE

- Chairperson:** Hari Sharma  
Singleton Hall, Room 101  
(804) 524-5842
- Professors:** Jae-Kwang Hwang, Young Nwoye, John Moore, Hari Sharma
- Associate Professors:** Arinola Adebayo
- Assistant Professors:** Logan Elliott, Steve Holeman, Jr., Sara Reese, Lester Reynolds, Arthur Wharton, III

### Description of the Department

The Department of Accounting and Finance offers a program of study to prepare students for professional accounting and finance careers in public, private and nonprofit organizations. The programs of study also prepare students for graduate study and for professional certifications.

### Areas of Specialization

The Department of Accounting and Finance offers a Bachelor of Science (B.S.) in Accounting. The Department offers minors in Accounting and in Finance comprising of 18 semester hours for each minor.

### Accounting Program Outcomes (POs):

#### 1. Experiential Learning

Accounting majors will participate in job shadowing, internships, service learning projects, and international business-related activities during the junior and senior years.

#### 2. Employment

Accounting graduates will be prepared to seek employment in the area of accounting upon the completion of the degree.

#### 3. Scholarly Activities

Accounting faculty will be engaged in scholarly activities on an ongoing basis.

#### 4. Innovative Teaching

Accounting faculty will implement research-based teaching strategies in class.

### Accounting - Program Level Student Learning Outcomes (PLSLOs):

**PLSLO 1- Problem Solving:** Students will be able to integrate competencies from various disciplines in order to make effective business decisions. (Traits: Problem Identification Skills; Problem Analysis Skills; Problem Solving Skills; Decision Making Skills)

**PLSLO 2- Technology:** Students will be proficient in the use of relevant technologies to solve business problems (Traits: Technology Skills; Analytical Skills; Quantitative Skills)

**PLSLO 3- Global and Ethical:** Students will understand the dynamics of a global economy (Traits: Knowledge of Ethical Issues; Knowledge of Global Issues)

**PLSLO 4- Communication:** Students will learn effective communication and collaboration skills (Traits: Written Communication Skills; Oral Communication Skills; Collaborative Skills)

**PLSLO 5- Disciplinary Knowledge:** Students will master the accounting disciplinary knowledge (Traits: Knowledge of Accounting Theory, Concepts and Principles; Integration of Accounting Knowledge in Making Business Decisions).

**PLSLO 6- Application of Disciplinary Knowledge:** Students will demonstrate the ability to apply accounting disciplinary knowledge to creatively solve problems (Traits: Development of Accounting and Financial Reports; Application of Ethical and Regulatory Standards).

#### **Other Departmental Information**

- The Virginia State University Chapter of the National Association of Black Accountants (NABA) provides students with opportunities for professional growth.
- The Virginia State University chapters of Financial Management Association (FMA), and Global Association for Risk Professionals (GARP), are designed to assist students in the achievement of their career goals.
- Internships and scholarships are available for qualified students.

## **ACCOUNTING** **Course Descriptions**

### **ACCT 200 INTRODUCTION TO FINANCE & MANAGERIAL ACCOUNTING – 3 semester hours**

A nontechnical introduction to the principles of financial and managerial accounting with emphasis on the use and interpretation of financial reports, managerial planning and control. The course is for the individual who seeks a basic knowledge of accounting and its uses. It is designed for the user of accounting information rather than the preparer. This course cannot be substituted for COBU 201 or 202 for business majors.

**Prerequisite: None**

### **ACCT 301 INTERMEDIATE ACCOUNTING I - 3 semester hours**

The course provides an in-depth study of generally accepted accounting principles as they relate to financial statement presentation.

**Prerequisite: COBU 201 and COBU 202**

### **ACCT 302 INTERMEDIATE ACCOUNTING II – 3 semester hours**

This course provides an in-dept study of generally accepted accounting principles as they relate to financial statement presentation.

**Prerequisite: ACCT 301**

### **ACCT 306 COST ACCOUNTING - 3 semester hours**

The issues of cost accumulation for inventory pricing and income determination are examined as well as the study of cost accounting systems. Special topics in relevant costs for routine and non-routine decisions are also discussed.

**Prerequisite: COBU 201 and COBU 202**

### **ACCT 307 FEDERAL INCOME TAX I - 3 semester hours**

This course studies how federal income tax principles apply to and affect individual taxpayers.

**Prerequisite: COBU 201 and COBU 202**

### **ACCT 308 FEDERAL INCOME TAX II - 3 semester hours**

This course studies how federal income tax principles apply to and affect corporations, and partnerships; estates and trusts transactions.

**Prerequisite: ACCT 307**

### **ACCT 315 ACCOUNTING INFORMATION SYSTEMS - 3 semester hours**

This course provides a basis for understanding, using, designing, and controlling accounting information systems as found in business organizations. Emphasis is on analysis and control of accounting information systems throughout their life cycle.

**Prerequisite: COBU 201 and COBU 202**

### **ACCT 375 INTERNSHIPS IN ACCOUNTING- 3 semester hours**

The internship course allows students to obtain practical work experience in accounting positions under supervised conditions. The internship provides real-world application of accounting education under the critical supervision of an on-site administrator and an accounting faculty member.

**Prerequisites: ACCT 302 or permission of the instructor**

### **ACCT 403 ADVANCED ACCOUNTING - 3 semester hours**

The financial accounting issues related to consolidations, partnerships, foreign currency translations, hedging and segment reporting are examined.

**Prerequisite: ACCT 302**

**ACCT 406 ADVANCED COST ACCOUNTING - 3 semester hours**

This course covers selected topics in management accounting, such as responsibility accounting, transfer pricing, JIT manufacturing, activity-based costing, and relevant costs for special decisions. Ethical and international aspects of management accounting are also discussed.

**Prerequisite: ACCT 306**

**ACCT 407 AUDITING - 3 semester hours**

The analysis and application of the theory and techniques of auditing principles and procedures, with emphasis on the duties and responsibilities of the auditor.

**Prerequisite: ACCT 302**

**ACCT 410 FORENSIC ACCOUNTING - 3 semester hours**

Fraud and abuse are costly, pervasive problems in business, nonprofit and government organizations. This course introduces a specialty field in accounting, the practice of which utilizes accounting, audition and investigative skills to provide support in legal matters.

**Prerequisites: ACCT 302**

**ACCT 411 SEMINAR IN ACCOUNTING THEORY AND PRACTICE - 3 semester hours**

This course is designed to investigate contemporary accounting theories and applications in the various areas of accounting to include financial, managerial, cost and auditing. Students will be exposed to pronouncements issued by the American Institute of Certified Public Accountants, the Security Exchange Commission, the Public Company Accounting Oversight Board, the International Accounting Standards Board, and the Financial Accounting Standards Board.

**Prerequisite: ACCT 302**

**ACCT 415 GOVERNMENTAL AND NOT-FOR-PROFIT ACCOUNTING - 3 semester hours**

The course is a study of accounting principles and their application for governmental and not-for-profit agencies/organizations and their related financial reporting and disclosure requirements. The objectives of financial reporting for these entities and the theoretical structure underlying these principles will be examined.

**Prerequisite: ACCT 302**

**ACCT 495 SPECIAL TOPICS IN ACCOUNTING – 3 semester hour**

The course offers selected special topics in accounting, which may include: ethics and professionalism, EDP auditing, accounting history, international accounting, and other appropriate subjects.

**Prerequisite: ACCT 302 or permission of the instructor**

## **FINANCE COURSE DESCRIPTIONS**

### **FINC 301 PRINCIPLES OF REAL ESTATE - 3 semester hours**

Emphasis in this course is on the economic and social aspects of real estate-markets, property rights, contracts, deeds, property ownership, insurance, management and planning for the future.

**Prerequisites: None**

### **FINC 305 PERSONAL FINANCE – 3 semester hours**

Principles and methods of managing personal income, wealth and credit are examined. Included are sources and uses of funds, budgeting, taxation, insurance, time value of money, estate planning and retirement planning.

**Prerequisites: None**

### **FINC 309 PRINCIPLES OF FINANCE – 3 semester hours**

Students are exposed to the field of finance including financial concepts, financial analysis, decision involving long-term assets, sources and forms of long-term financing, international financial markets and issues, as well as selected ethical and social issues related to finance.

**Prerequisites: ACCT 200 or permission of the instructor**

### **FINC 400 CORPORATE FINANCE - 3 semester hours**

Students learn the concepts critical to the financial manager in a contemporary environment, including risk valuation, capital budgeting, cost of capital, capital structure, long-term financing, derivative securities, as well as topics of special interest like mergers and acquisitions, lease financing, and working capital management.

**Prerequisite: COBU 300**

### **FINC 415 INTERNATIONAL FINANCIAL MANAGEMENT – 3 semester hours**

The course deals with an in-depth analysis of risks of financing foreign operations and the management of international assets as viewed by multinational financial managers. It concentrates on the development of risk management policies that are appropriate for the multinational firm.

**Prerequisite: COBU 300**

### **FINC 446 ENTREPRENEURIAL FINANCE - 3 semester hours**

The course examines small business start-up management with emphasis on financial decision-making for entrepreneurs, and the functions of investment banking institutions as they relate to small business capital acquisition and management. Also included are legal concerns and strategies for minority start-up ventures. The case study method will be used.

**Prerequisite: COBU 300 or permission of the instructor**

### **FINC 450 INVESTMENTS – 3 semester hours**

This course examines the various types of securities, valuation models for bonds, stocks, and options, security markets, and theories of portfolio management. Special emphasis is placed on common stock portfolios.

**Prerequisite: COBU 300 or FINC 309 or permission of the instructor**

### **FINC 460 INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT - 3 semester hours**

The course provides an in-depth analysis of fixed-income securities and markets. Financial theories are applied to the construction of fixed-income security portfolios. Topics include duration, convexity, realized compound yield, mortgage-backed securities, interest-rate swaps, bond immunization, and interest-rate futures and options.

**Prerequisite: FINC 450**

**FINC 465 MANAGEMENT OF FINANCIAL INSTITUTIONS - 3 semester hours**

Students are exposed to the analysis of the management of financial institutions, including the management of asset and liability structures, control of financial operations, and the effect of regulations on financial management practices.

**Prerequisite: COBU 300 or permission of the instructor**

**FINC 472 RISK MANAGEMENT AND INSURANCE - 3 semester hours**

This is a study of the insurance industry, the different forms of insurance coverage, and an analysis of the concept of risk. The course examines risk management techniques to neutralize the effect of risk inherent in daily life.

**Prerequisite: COBU 300 or permission of the instructor**

## BUSINESS PHASE ACCOUNTING

### Semester 5

ACCT	301	Intermediate Accounting I	3
COBU	300	Principles of Finance	3
COBU	301	Principles of Marketing	3
COBU	302	Organization and Management	3
ACCT	306	Cost Accounting	3
			<b>Total 15</b>

### Semester 6

ACCT	302	Intermediate Accounting II	3
ACCT	315	Accounting Information Systems	3
COBU	342	Product & Process Planning	3
COBU	306	Business Analytics	3
FINC	450	Investments	3
			<b>Total 15</b>

### Semester 7

ACCT	403	Advanced Accounting	3
ACCT	307	Federal Income Tax I	3
ACCT	_____	Accounting Elective	3
COBU	343	Planning & Decision Making in Org.	3
_____	_____	Global Studies	3
			<b>Total 15</b>

### Semester 8

ACCT	407	Auditing	3
ACCT	_____	Accounting Elective	3
COBU	400	Organization Policy & Strategy	3
_____	_____	Restricted Business Elective	3
_____	_____	Free Business Elective	3
			<b>Total 15</b>

**DEPARTMENT OF ACCOUNTING AND FINANCE  
ACCOUNTING MINOR**

This minor will require six courses (18 semester hours) in addition to prerequisites. One of the courses may satisfy your restrictive elective requirements. This minor is directed toward the student who is willing to stay in school for a minimum of 4 ½ years.

**PREREQUISITES (6 Credits)**

COBU 201 - Introductory Accounting I  
COBU 202 - Introductory Accounting II

**REQUIRED COURSES (12 Credits)**

ACCT 301 - Intermediate Accounting I  
ACCT 302 - Intermediate Accounting II  
ACCT 315 – Accounting Information Systems  
ACCT 407 - Auditing

**ELECTIVES (6 Credits)**

ACCT 306 - Cost Accounting  
ACCT 307 - Federal Income Tax I  
ACCT 308 - Federal Income Tax II  
ACCT 403 - Advanced Accounting  
ACCT 406 - Advanced Cost Accounting  
ACCT 415 - Governmental and Not-For-Profit Accounting  
ACCT 495 – Special Topics

**DEPARTMENT OF ACCOUNTING AND FINANCE  
FINANCE MINOR**

This minor will require six courses (18 semester hours) in addition to prerequisite(s). One of the courses may satisfy your restrictive elective requirements.

**PREREQUISITES FOR BUSINESS MAJORS (6 Credits)**

COBU 201 - Introductory Accounting I  
COBU 202 - Introductory Accounting II

**PREREQUISITES FOR NON-BUSINESS MAJORS (3 Credits)**

ACCT 200 – Intro to Finance & Managerial Accounting

**REQUIRED COURSES (12 Credits)**

COBU 300 - Principles of Finance OR FINC 309 Principles of Finance  
FINC 450 - Investments  
FINC 400 - Corporate Finance  
FINC 460 - Investment Analysis and Portfolio Management

**ELECTIVES (6 Credits)**

FINC 301 – Principles of Real Estate  
FINC 305 – Personal Finance  
FINC 415 – International Finance  
FINC 446 – Entrepreneurial Finance  
FINC 472 – Risk Management & Insurance  
FINC 465 – Management of Financial Institutions

*The student should seek academic advisement from an Accounting and Finance faculty member in the Reginald F. Lewis College of Business. The student is required to meet any prerequisite course requirements before enrolling in any course.*

## DEPARTMENT OF COMPUTER INFORMATION SYSTEMS

**Chairperson:** Ade G. Ola  
Singleton Hall, Room 216  
(804) 524-5321

**Professors:** Adeyemi A. Adekoya, Xue Bai, Ade G. Ola, Emmanuel Omojokun,  
Manying Qiu

**Associate Professors:** Somasheker Akkaladevi, Dong Kyoonyoo

**Assistant Professors:** Aurelia Donald, Veronica Gibson

### Description of the Department

The Computer Information Systems Department provides students with a solid understanding of the use, design, development and management of information systems and information technology. The department offers a degree in Management Information Systems.

The Management Information Systems curriculum is designed to give students the opportunity to develop and manage a variety of projects that are derived from and can be applied to real business settings. The curriculum is structured to provide students with a strong foundation in quantitative, modeling, and analytical skills; systems orientation; computer programming skills; and information technology (IT) currency. Ethical and global issues are integrated across the curriculum.

### Management Information Systems (MIS) Program Outcomes (POs):

#### 1. Experiential Learning

MIS majors will participate in job shadowing, internships, service learning projects, and international business-related activities during the junior and senior years.

#### 2. Employment

MIS graduates will be prepared to seek employment in the area of management information systems upon the completion of the degree.

#### 3. Scholarly Activities

CIS faculty will be engaged in scholarly activities on an ongoing basis.

#### 4. Innovative Teaching

CIS faculty will implement research-based teaching strategies in class.

### MIS - Program Level Student Learning Outcomes (PLSLOs):

**PLSLO 1- Problem Solving:** Students will be able to integrate competencies from various disciplines in order to make effective business decisions. (Traits: Problem Identification Skills; Problem Analysis Skills; Problem Solving Skills; Decision Making Skills)

**PLSLO 2- Technology:** Students will be proficient in the use of relevant technologies to solve business problems (Traits: Technology Skills; Analytical Skills; Quantitative Skills)

**PLSLO 3- Global and Ethical:** Students will understand the dynamics of a global economy (Traits: Knowledge of Ethical Issues; Knowledge of Global Issues)

**PLSLO 4- Communication:** Students will learn effective communication and collaboration skills (Traits: Written Communication Skills; Oral Communication Skills; Collaborative Skills)

**PLSLO 5- Disciplinary Knowledge:** Students will master the disciplinary knowledge appropriate to the discipline of their choice (Traits: Modeling Skills; Data Analysis Skills)

**PLSLO 6- Application of Disciplinary Knowledge:** Students will demonstrate the ability to apply disciplinary knowledge to creatively solve problems (Traits: Computer-based Design Skills; Technology Analysis Skills)

## COMPUTER INFORMATION SYSTEMS Course Descriptions

### **CISY 305 PROGRAMING LOGIC AND DESIGN – 3 semester hours**

This course teaches skills for development of algorithms for problem solving. Students are taught how to use structured and other approaches to analyze problems and express their solutions. Through the introduction of programming concepts, this course enforces good style and outlines logical thinking.

**Prerequisite:** COBU 155 or permission of the instructor

### **MISY 201 MICROCOMPUTER CONCEPTS - 3 semester hours**

This course is for non-business majors. This course provides a hands-on computer experience through the use of microcomputers with an emphasis on a microcomputer operating system and an in-depth coverage of various computer application packages, such as, but not limited to, word processing, database, spreadsheet software, and presentation graphics.

**Prerequisite:** High School Algebra or equivalent

### **MISY 300 COMPUTER INTERNSHIP - 3 semester hours**

Off campus (approved by the Department). Broad spectrum of “hands-on” work experience as an apprentice programmer/analyst in a computer environment for not less than 120 clock hours.

**Prerequisites:** MISY 362, MISY 385 or permission of the instructor.

### **MISY 311 INFORMATION TECHNOLOGY INFRASTRUCTURE - 3 semester hours**

This course is designed to introduce the student to current operating systems, computing networks, and data communication infrastructure. Students are expected to come away with an understanding of the functions of operating systems, data and voice communication concepts and terminology, modes of data transmissions, transmission media, different types of networks, mass storage and I/O technologies, file systems, and computing technology trends.

**Prerequisites:** MISY 305 or permission of the instructor

### **MISY 330 INTRODUCTION TO JAVA PROGRAMMING -3 semester hours**

This course provides an introduction to JAVA programming and its environment. Students will learn how to develop small to medium-sized JAVA applications and JAVA applets. Special topics include JAVA programming concepts, Object-Oriented design, JAVA Application Programming Interface (API), Graphical User Interface (GUI) components, event handling, exceptions, graphics, input/output, and inheritance.

**Prerequisites:** COBU 155 or permission of the instructor

### **MISY 344 INTRODUCTION TO PROGRAMMING USING AN OBJECT-ORIENTED LANGUAGE -3 semester hours**

The course introduces the student to programming using and Object-oriented programming language. The course focuses on the principles of user interface design, general software engineering principles and business application development.

**Prerequisites:** MISY 305 or permission of the instructor

### **MISY 350 MANAGEMENT INFORMATION SYSTEMS – 3 semester hours**

An informative course designed to provide students with an understanding of the importance and the role of Business Information Systems in making decisions affecting the success of an organization, and the types of information systems that support business functions. Emphasis will be placed on the planning, development, installation and maintenance of business computer applications that are utilized in the typical business environment.

**Prerequisite:** COBU 155 or equivalent

**MISY 358 INTEGRATED APPLICATION DEVELOPMENT I – 3 semester hours**

This course introduces students to basic elements of web programming and collaboration tools. Students will learn basic skills necessary to derive data requirements from business processes and to implement web applications to meet the requirements. Topics will include database implementation, web application development, and cyber security. Students will engage in hands-on practice based on current open source software and industry standards.

**Prerequisites:** CISO 305 or MISY 330 or permission of the instructor

**MISY 362 SYSTEMS ANALYSIS AND DESIGN – 3 semester hours**

This course focuses on the application of information technologies (IT) to systems analysis, systems design, and systems implementation practices. Methodologies related to identification of information requirements function, feasibility (economic, legal and contractual, operational, political, technical and schedule) and related issues are covered. Development of data dictionary and the application of computer-aided system engineering (CASE) tools for diagramming information flow and procedures in system development process is covered.

**Prerequisites:** MISY 350, COBU 302, and an introductory level computer programming language or permission of the instructor.

**MISY 367 INTRODUCTION TO COMPUTER NETWORKS – 3 semester hours**

This course is an introduction to the fundamentals of computer communications networks. The course focuses on the network concepts, media, topologies, components, protocols and standards; and issues involved in the design, implementation and management of computer networks. Also, analog and digital transmission of data, transmission media and devices, LANS and WANS, TCP/IP fundamentals and message switching will be discussed.

**Prerequisite:** MISY 350 or permission of the instructor

**MISY 368 INTRODUCTION TO INFORMATION SECURITY & ASSURANCE****3 semester hours**

The purpose of this course is to introduce the business student to the rapidly evolving and critical arenas of information security. Students will learn principles and methods of information security, various security models, architectures, firewalls and internet security. Students will also learn how to plan and manage security, security policies, business continuity plans, disaster recovery planning, and to build an understanding of the social and legal issues of information security.

**Prerequisite(s):** MISY 367 or permission of the instructor

**MISY 385 INTRODUCTION TO WEB DEVELOPMENT AND APPLICATIONS****3 semester hours**

This course provides a practical approach to the development of web related technologies. Emphasis is on the use of current web development languages as tools to develop interactive web pages. Students also learn concepts such as the architecture of the web, the use of browsers, the effectiveness of user interfaces, and effective search strategies. Multimedia and web security are addressed to familiarize the student with the web as a business tool.

**Prerequisite:** An introductory level computer programming language or permission of the instructor

**MISY 430 ADVANCED JAVA PROGRAMMING – 3 semester hours**

This course is the second part of a two semester JAVA programming course sequence. Students will learn how to write small to medium sized JAVA applications and JAVA applets. Special topics include key issues related to software engineering, object oriented design, Java Application Programming Interface (API), graphical user interface components, event handling, exceptions, input/output, and inheritance, data structures, and multithreading and animation.

**Prerequisite:** MISY 330 or permission of the instructor

### **MISY 444 PROGRAMMING II USING AN OBJECT-ORIENTED LANGUAGE**

#### **3 semester hours**

This course is a continuation of MISY 344. Topics include event-driven programming techniques, scripting, business computing, and integration with databases.

**Prerequisite: MISY 344 or permission of the instructor**

### **MISY 458 INTEGRATED APPLICATION DEVELOPMENT II – 3 semester hours**

This course covers some advanced topics in application development and deployment. Students will learn to develop and deploy systems that will provide secure remote access to enterprise data and information resources. Students will learn data analysis skills necessary to derive data requirements from business processes. Emphasis will be placed on mobile Apps programming and securing enterprise resources. Students will engage in hands-on practice based on current open sources software and industry standards. **Prerequisites: MISY 358 or permission of the instructor**

### **MISY 467 ADVANCED COMPUTER NETWORKS TECHNOLOGY - 3 semester hours**

This course focuses on computer networking technologies for individual workstations, LANS, WANS, and the Internet. Topics include network support; storage area networks; virtual servers; managed switches, and routers, and firewalls. This course also prepares the student for the industry's Network+ certification examination.

**Prerequisite: MISY 367**

### **MISY 468 ADVANCED INFORMATION SECURITY AND ASSURANCE – 3 semester hour**

This is an advanced level information security course. The student will learn contemporary security issues; infrastructure security management processes, architecture and model; risk analysis and management; security planning, analysis and safeguards; security policies development and administration; contingency planning, incidence handling and response; and security standards. This course prepares the student for the Security+ certification

**Prerequisite(s): MISY 368**

### **MISY 478 MANAGING ORGANIZATIONAL IT SECURITY RISKS – 3 semester hours**

This course takes a multi-disciplinary perspective of risk assessment, modeling, and management. Topics discussed include concepts of personal accountability versus governance and policy, how organizations define and measure risk and loss, and planning for contingencies.

**Prerequisite: MISY 368 or permission of the instructor**

### **MISY 480 DATABASE DESIGN AND APPLICATIONS - 3 semester hours**

A study of the principles of database systems with emphasis on the relational model of data, and covering both the user and the system perspectives. User issues include data modeling, informal and commercial query languages and the theory of database design. System issues include file structures, query formulation, form design, and report generation using different database management systems (DBMSs).

**Prerequisites: MISY 350, MISY 362, and an introductory level programming language or permission of the instructor**

### **MISY 485 ADVANCED WEB DEVELOPMENT AND APPLICATIONS – 3 semester hours**

This course provides students with the understanding and practical experience in web-enabled database and e-commerce business application development. Topics include scripting business rules and application logic on a web server, client and server side technologies, and techniques to develop fully functional business applications. Application design uses current application software. E-commerce business issues and security implementations are also covered.

**Prerequisite: MISY 385 or permission of the instructor**

**MISY 486 ENTERPRISE RESOURCE PLANNING SYSTEMS & APPLICATIONS -  
3 semester hours**

Enterprise resource planning (ERP) is an integrated information system that manages internal, external resources including suppliers, employees, customers, and partners. The course provides students with an understanding of how firms consolidate all business operations (i.e., manufacturing, finance and accounting, sales and marketing, and human resources) into a centralized database; facilitate information flows among all business functions, and turn into innovative business decisions. Emphasis will be placed on exploring SAP.

**Prerequisite: MISY 381 and an introductory level computer programming language**

**MISY 488 INFORMATION TECHNOLOGY SECURITY AND FORENSICS– 3 semester hours**

This course will introduce students to how forensic science, management information systems, and information security all blend into digital forensics. The students will learn the fundamentals of the forensic process, evidence handling, and quality assurance as they apply to digital forensics.

**Prerequisite: MISY 368 or permission of the instructor**

**MISY 495 SPECIAL TOPICS - 3 semester hours**

In-depth treatment within a seminar format of a timely topic in Information Systems and Decision Sciences.

**Prerequisite: Permission of the instructor.**

**BUSINESS PHASE**  
**DEPARTMENT OF COMPUTER INFORMATION SYSTEMS**  
**MANAGEMENT INFORMATION SYSTEMS DEGREE**

**SEMESTER 5**

MISY 3XX	Programming Elective	3
COBU 300	Principles of Finance	3
COBU 301	Principles of Marketing	3
COBU 302	Organization and Management	3
MISY 385	Introduction to Web Development	3
<b>TOTAL</b>		<b>15</b>

**SEMESTER 6**

MISY 350	Management Information Systems	3
MISY 311	Information Technology Infrastructure	3
MISY 367	Introduction to Computer Networks	3
COBU 342	Product and Process Planning	3
COBU 343	Planning and Decision Making in Organizations	3
<b>TOTAL</b>		<b>15</b>

**SEMESTER 7**

MISY 362	System Analysis and Design	3
MISY 4XX	Computer Information Systems Elective	3
MISY 4XX	Computer Information Systems Elective	3
COBU 306	Business Analytics	3
	Restrictive Business Elective	3
<b>TOTAL</b>		<b>15</b>

**SEMESTER 8**

MISY 480	Database Design and Applications	3
MISY 486	ERP Systems and Applications	3
MISY 4XX	Programming Elective or Application Dev.	3
COBU 400	Organization Policy and Strategy	3
	Global Studies Elective	3
<b>TOTAL</b>		<b>15</b>

**BUSINESS PHASE**  
**COMPUTER INFORMATION SYSTEMS ELECTIVES**

MISY 300 – Computer Internship  
MISY 330 – Introduction to Java Programming  
MISY 358 – Integrated Application Development I  
MISY 367 – Introduction to Computer Networks  
MISY 368 – Introduction to Information Security and Assurance  
MISY 430 – Advanced Java Programming  
MISY 458 – Integrated Application Development II  
MISY 467 – Advanced Computer Networks Technology  
MISY 468 – Advanced Information Security and Assurance  
MISY 478 – Managing Organizational IT Security Risks  
MISY 480 – Database Design & Applications  
MISY 485 – Advanced Web Development and Applications  
MISY 486 – Enterprise Resource Planning Systems and Applications  
MISY 488 – Information Technology Security and Forensics  
MISY 495 – Special Topics

**DEPARTMENT OF COMPUTER INFORMATION SYSTEMS  
CYBER SECURITY AND FORENSICS MINOR**

The minor is directed toward the student who is willing to stay in school for a minimum of 4 ½ years. It includes an additional 18 semester hours in Information Systems.

**PREREQUISITES**

CISY 305 – Programming Logic or Permission of the Department Chair

**REQUIRED COURSES**

MISY 3xx – An Introductory Computer Programming Language

MISY 367 – Introduction to Computer Networks

MISY 368 – Introduction to Information Security and Assurance

MISY 468 – Advanced Information Security and Assurance

MISY 478 – Managing Organizational IT Security Risks

MISY 488 – Information Technology Security and Forensics

*The student should seek proper academic advisement from Computer Information Systems faculty in the Reginald F. Lewis College of Business. The student is required to meet all prerequisites before enrolling in any course.*

**DEPARTMENT OF COMPUTER INFORMATION SYSTEMS  
INFORMATION SYSTEMS MINOR**

The minor is directed toward the student who is willing to stay in school for a minimum of 4 ½ years. It includes a major other than Management Information Systems and additional 18 semester hours in Information Systems.

**REQUIRED COURSES**

MISY 311 – Systems Architecture and Design

MISY 362 – Systems Analysis and Design

MISY 480 - Database Design & Applications

MISY 3xx – An Introductory Computer Programming Language

MISY 367 – Introduction to Computer Networks

**ELECTIVES FOR INFORMATION SYSTEMS MINOR (Must take one from the following list):**

MISY 300 - Computer Internship

MISY 478 – Managing Organizational IT Security Risks

MISY 486 – Enterprise Resource Planning Systems and Applications

MISY 488 – Information Technology Security and Forensics MISY

4xx – Advanced Computer Programming Language

MISY 4xx – Information Systems Elective MISY 495 –

Special Topics

*The student should seek academic advisement from a Computer Information Systems faculty member in the Reginald F. Lewis College of Business. The student is required to meet any prerequisite course requirements before enrolling in any course.*

## DEPARTMENT OF MANAGEMENT AND MARKETING

<b>Chairperson:</b>	Venkatapparao Mummalaneni Singleton Hall, Room 106 B (804) 524-5782
<b>Professors:</b>	Donatus Amaram, Venkatapparao Mummalaneni
<b>Associate Professors:</b>	Ayse Balas, Yvette Essounga, Jun Sang Lim, J. Rajendran Pandian
<b>Assistant Professors:</b>	Taneisha Brown, Louis Dabney, Mark Kunze, Yun Lee, Patrice Perry- Rivers, George Weimer

### Description of the Department

The Department of Management and Marketing provides students with opportunities to develop competencies in areas of Management and Marketing. Major degree programs are offered in Management and Marketing and a specialization is available in the area of Human Resources Management. The curricula in the Department of Management and Marketing are designed to produce students who will be able to succeed in a highly competitive, global society.

### Major Programs in the Department

The Department of Management and Marketing offers two degree programs leading to either of the following:

- (1) A Bachelor of Science in Management, ( there is an option of specializing in Human Resources Management)
- (2) A Bachelor of Science in Marketing

### Management Degree Program

The program leading to a B.S. in Management is designed to provide a comprehensive mix of general and professional education suitable for preparing students for managerial leadership in both profit and non-profit organizations. Emphasis is placed on acquiring knowledge of the basic concepts and ideas essential to universal management functions.

The B.S. in Management consists of 120 semester hours of academic work. The Management Internship is encouraged for all Management majors.

The Human Resource Management Specialization is designed to provide students with the skills and knowledge needed to manage the workforce and make decisions relative to the sensitive and dynamic relationships between employees and the owners and managers of the organization. Students in this specialization are exposed to an overview of all the core areas of management and business functions.

### Management Program Outcomes (POs):

#### 1. Experiential Learning

Management majors will participate in job shadowing, internships, service learning projects, and international business-related activities during the junior and senior years.

## **2. Employment**

Management graduates will be prepared to seek employment in areas of management upon the completion of the degree.

## **3. Scholarly Activities**

Management faculty will be engaged in scholarly activities on an ongoing basis.

## **4. Innovative Teaching**

Management faculty will implement research-based teaching strategies in class.

### **Management - Program Level Student Learning Outcomes (PLSLOs):**

**PLSLO 1- Problem Solving:** Students will be able to integrate competencies from various disciplines in order to make effective business decisions. (Traits: Problem Identification Skills; Problem Analysis Skills; Problem Solving Skills; Decision Making Skills)

**PLSLO 2- Technology:** Students will be proficient in the use of relevant technologies to solve business problems (Traits: Technology Skills; Analytical Skills; Quantitative Skills)

**PLSLO 3- Global and Ethical:** Students will understand the dynamics of a global economy (Traits: Knowledge of Ethical Issues; Knowledge of Global Issues)

**PLSLO 4- Communication:** Students will learn effective communication and collaboration skills (Traits: Written Communication Skills; Oral Communication Skills; Collaborative Skills)

**PLSLO 5- Disciplinary Knowledge:** Students will master the disciplinary knowledge appropriate to the discipline of their choice (Traits: Corporate, Functional, and Business-Level Strategy Planning)

**PLSLO 6- Application of Disciplinary Knowledge:** Students will demonstrate the ability to apply disciplinary knowledge to creatively solve problems (Business Planning, Strategy Development)

## **MANAGEMENT Course Descriptions**

### **MGMT 150 PRINCIPLES OF BUSINESS - 3 semester hours**

For non-business majors. This course introduces the student to the fundamental principles of business, organizations, finance, banking, credit management, salesmanship, advertising, ecology and consumers. Through this introduction the student will be able to relate/work with real world examples in higher-level courses.

### **MGMT 300 ORGANIZATION AND MANAGEMENT - 3 semester hours**

This course provides an overview of the many aspects of managing organizations. Emphasis will be placed on management processes, human behavior in organizations and applications of classroom knowledge to actual challenges facing managers. The application of management concepts will be practiced using such activities as case studies, team projects, decision making exercises, presentations, and active in-class discussion of current management issues.

### **MGMT 320 INTERNATIONAL BUSINESS - 3 semester hours**

This course explores the critical importance of the environments that surround international business and how multinational and global enterprises are expected to adapt their operations and functional strategies to these constantly changing environments. Additional topics explored include theories of international trade, international development and investment, international organizations that impact international business, the international system, exporting and importing, etc.

**Prerequisite:** COBU 302 or MGMT 300

### **MGMT 330 ORGANIZATIONAL BEHAVIOR AND LEADERSHIP - 3 semester hours**

An in-depth study of the behaviors of individuals and small groups in organizations. A problem solving approach is applied to such concepts as motivation, personalities, work attitudes, leadership, communication effectiveness, managerial decision making, conflict resolution, office politics, and change management.

**Prerequisite:** COBU 302 or MGMT 300

### **MGMT 340 PERSONNEL/HUMAN RESOURCE MANAGEMENT - 3 semester hours**

The basic principles of managing the workforce are covered in this course. Topics such as recruitment and selection, employee training, performance evaluation, compensation, occupational safety and health, equal employment opportunity and employment discrimination policies as well as retirement and pension issues will be discussed.

**Prerequisite:** COBU 302 or MGMT 300

### **MGMT 371 BUSINESS LAW - 3 semester hours**

This course deals with business law topics frequently addressed on the CPA examination as well as an in-depth coverage of selected articles of the Uniform Commercial Code.

**Prerequisite:** COBU 170 and sophomore standing.

### **MGMT 375 INTERNSHIP - 3 semester hours**

The internship course allows students to obtain practical work experience in a management position under supervised conditions. The internship provides real-world application of management education under the critical supervision of an on-site administrator and a management faculty member.

**Prerequisite:** COBU 302 or MGMT 300 and Junior standing or special permission of the instructor

### **MGMT 418 ORGANIZATION AND ENVIRONMENT - 3 semester hours**

The course deals generally with the mutual influences of public policies and business activities. Selected public policy issues and programs are examined in-depth from the perspectives of how they impact on business planning and operations, including anti-trust legislations and landmark court decisions arising from them.

**Prerequisite:** COBU 302 or MGMT 300

**MGMT 420 MANAGING IN A GLOBAL ECONOMY - 3 semester hours**

The student will examine the techniques of managing international businesses with emphasis on the problems of communications as well as cultural, political and social differences with reference to multi-national businesses operating in different parts of the world.

**Prerequisite: COBU 302 or MGMT 300**

**MGMT 444 INTRODUCTION TO ENTREPRENEURSHIP & SMALL BUSINESS MANAGEMENT - 3 semester hours**

This course provides an introductory analysis of the entrepreneur's role in conceptualizing, developing and managing small business ventures. It is designed to expose students to the problems and opportunities inherent in establishing and managing a small business, the initial research and resources required, and the techniques employed in launching and sustaining a new venture. Students will be exposed to information and resources that expand their knowledge base and creativity, and that will spur them to explore potential small business opportunities they would like to initiate in the future. They also have the opportunity to employ various management, marketing, human resources, financial planning and ethics/social responsibility principles as they specifically relate to entrepreneurship and small business management.

**MGMT 445 SMALL BUSINESS CONSULTING - 3 semester hours**

The small business consulting course is designed to develop practical consulting skills of students in the area of small business management and development. Students will apply conceptual and theoretical skills to identify opportunities, diagnose, analyze and resolve problems of small business owners.

**Prerequisites: MGMT 444 and Senior standing or permission of instructor.**

**MGMT 446 ENTREPRENEURIAL MARKETING & NEW PRODUCT INNOVATION – 3 semester hours**

This course is designed for business and non-business students who want to use their creativity and knowledge to create and market novel products and services for consumers. Student pursuing for-profit or non-profit entrepreneurship ventures will be required to create a value proposition for their new innovation, strategies to protect their intellectual property, and a marketing plan to deliver their new product/service to customers. As a result of this course, students will be capable of conducting effective market analysis, industry analysis, competitive analysis and risk analysis to successfully market an innovation or an entrepreneurship venture.

**Prerequisites: MGMT 444**

**MGMT 447 SOCIAL ENTREPRENEURSHIP & SUSTAINABLE VENTURES – 3 semester hours**

The purpose of this course is to examine entrepreneurship as a mechanism for social change, community economic development, and societal sustainability. Via interaction with social entrepreneurs and owners of sustainable enterprises, we will examine the social impacts that both social enterprises and social responsible for-profit ventures can have in the markets where they are located. A key goal of this course is for students to be able to develop a business model that is scalable (with potential for exponential growth and impact) and sustainable for either a non-profit or for-profit venture.

**Prerequisites: MGMT 444. Prerequisite(s) can be waived by instructor based on student's prior non-profit or for profit venture.**

**MGMT 448 TECHNOLOGY & ENTREPRENEURSHIP – 3 semester hours**

This course will provide an overview of the relevance of technology to the success of new ventures and highlight specific technology tools, including financial management software, website development services and programs, e-commerce and social media and e-marketing tools that are crucial for 21<sup>st</sup> century entrepreneurs in any industry. As part of the course, student will have the opportunity to develop their own website for their small business and e-marketing plan.

**Prerequisites: MGMT 444. Prerequisite(s) can be waived by instructor based on student's prior experience.**

**MGMT 449 SPECIAL TOPICS – 3 semester hours**

This course will cover dynamic topics of relevance to entrepreneurs in various industries, including specialty coverage of music entrepreneurship, education entrepreneurship, social media marketing, global entrepreneurship, technology based ventures and other contemporary topics relevant to prospective and current entrepreneurs.

**Prerequisites:** MGMT 444. Prerequisite(s) can be waived by instructor based on student's prior experience.

**MGMT 450 ORGANIZATIONAL THEORY - 3 semester hours**

An in-depth study of how to restructure any organization. Restructuring groups, people and organizes activities to accomplish the organization's goals. Each student will develop the ability to analyze an organization's internal and external structural contingencies and design the correspondingly appropriate structures. Emphasis will be placed on applying this ability through case studies.

**Prerequisite:** COBU 302 or MGMT 300

**MGMT 452 ORGANIZATIONAL CULTURE AND DIVERSITY - 3 semester hours**

This course is an examination of an organization's culture, how it is created, sustained and learned. The issue of changing organizational culture within the context of a global, multi-ethnic and pluralistic workplace will be addressed. Topics to be addressed include: culturally based patterns of difference, current research in multicultural management and action steps for managing multicultural workforce.

**Prerequisite:** COBU 302 or MGMT 300

**MGMT 454 WORKPLACE DEMOCRACY - 3 semester hours**

The student will examine non-hierarchical organizational forms and structures that would facilitate democratic involvement and participation in workplace decision-making and activities. The content will include: cooperatives, worker-owned firms, self-managed enterprises, ESOPS, Workers Council and Quality Circles.

**Prerequisite:** COBU 302 or MGMT 300

**MGMT 464 EMPLOYMENT LAWS AND POLICIES - 3 semester hours**

This course is designed as a critical review of current or proposed laws and public policies dealing with the dynamics of employment including the important areas of human resources acquisition, development, maintenance, utilization and compensation.

**Prerequisite:** COBU 302 or MGMT 300

**MGMT 466 COMPENSATION MANAGEMENT - 3 semester hours**

The student will gain an understanding of the principles and factors involved in designing and implementing an effective and equitable compensation system for administrative, operative and professional employees in private and public organizations. Compensation management also deals with the role of compensation as a managerial and motivational tool.

**Prerequisites:** COBU 302 or MGMT 300

**MGMT 468 COMPARATIVE UNION MOVEMENTS - 3 semester hours**

This course is a comparison of labor union movements and industrial relations practices in different countries, particularly in Western Europe, North America, Japan and Africa with respect to their history, rationale, objectives and laws and their implications for multinational enterprises which must deal with the differences associated with these systems.

**Prerequisite:** COBU 302 or MGMT 300

**MGMT 470 HUMAN RESOURCES PLANNING AND DEVELOPMENT - 3 semester hours**

This course surveys the concepts and techniques of determining human resources requirements and methods of acquisition, training and development of the workforce.

**Prerequisites:** COBU 302 or MGMT 300 and MGMT 340 or equivalent

**MGMT 480 ORGANIZATIONAL DEVELOPMENT - 3 semester hours**

An integrated application of behavioral science to the improvement of overall organizational performance. Studied will be several techniques of large-scale planned change which redesign an organization's culture and processes. Emphasis will be placed on applying these techniques through case studies.

**Prerequisites:** COBU 302 or MGMT 300, MGMT 330, MGMT 340, and MGMT 450

**MGMT 484 INDUSTRIAL RELATIONS AND COLLECTIVE BARGAINING**

**3 semester hours**

This course is a survey of labor union movement and collective bargaining in the United States. Includes the rationale, structure and government of labor union internal affairs and the laws and policies relating to unfair labor practices in plant unionization and collective bargaining between management and labor organizations.

**Prerequisites:** COBU 302 or MGMT 300 and MGMT 340

**MGMT 490 SEMINAR: ISSUES IN MANAGEMENT - 3 semester hours**

The seminar course is designed to provide students the opportunity to study in-depth topics pertaining to management. Students will take initiative in identifying current topics, issues and problems confronting managers.

**Prerequisites:** COBU 302 or MGMT 300 and Senior standing

**BUSINESS PHASE  
MANAGEMENT**

**Semester 5**

MISY 350	Management Information Systems	3
COBU 300	Principles of Finance	3
COBU 301	Principles of Marketing	3
COBU 302	Organization and Management	3
	Global Studies Elective	3

**Total 15**

**Semester 6**

COBU 342	Product & Process Planning	3
MGMT 330	Organizational Behavior and Leadership	3
COBU 343	Planning & Decision Making in Organizations	3
	Restrictive Business Elective	3
MGMT 320	International Business	3

**Total 15**

**Semester 7**

MGMT 340	Personnel/HR Management	3
COBU 306	Business Analytics	3
MGMT 418	Organization and Environment	3
MGMT 450	Organizational Theory	3
MGMT	Management Elective	3

**Total 15**

**Semester 8**

MGMT	Management Elective	3
COBU 400	Organization Policy & Strategy	3

**Total 15**

**BUSINESS PHASE**  
**MANAGEMENT**  
**HUMAN RESOURCE MANAGEMENT SPECIALIZATION**

<b>Semester 5</b>		
MISY 350	Management Information Systems	3
COBU 300	Principles of Finance	3
COBU 301	Principles of Marketing	3
COBU 302	Organization and Management	3
	Global Studies Elective	3
	<b>Total</b>	<b>15</b>
<b>Semester 6</b>		
COBU 340	Personnel/HR Management	3
COBU 342	Product & Process Planning	3
COBU 343	Planning & Decision Making in Organizations	3
	Restrictive Business Elective	3
MGMT 320	International Business	3
	<b>Total</b>	<b>15</b>
<b>Semester 7</b>		
MGMT 330	Organizational Behavior and Leadership	3
COBU 306	Business Analytics	3
MGMT 450	Organizational Theory & Design	3
MGMT	Management Elective	3
MGMT 466	Compensation Management	3
	<b>Total</b>	<b>15</b>
<b>Semester 8</b>		
MGMT	Management Elective	3
MGMT 484	Industrial Relations & Collective Bargaining	3
MGMT 464	Employment Laws & Policies	3
COBU 400	Organization Policy & Strategy	3
MGMT	Management Elective	3
	<b>Total</b>	<b>15</b>

**DEPARTMENT OF MANAGEMENT AND MARKETING**  
**Marketing Degree Program**

The program leading to a B.S. in Marketing is designed to provide a comprehensive mix of general and professional education suitable for preparing students for managerial leadership in both profit and non-profit organizations. Emphasis is placed on acquiring knowledge of the basic concepts and ideas essential to universal management and marketing functions. The B.S. in Marketing consists of 120 semester hours of course work.

**Marketing Program Outcomes (POs):**

**1. Experiential Learning**

Marketing majors will participate in job shadowing, internships, service learning projects, and international business-related activities during the junior and senior years.

**2. Employment**

Marketing graduates will be prepared to seek employment in marketing area upon the completion of the degree.

**3. Scholarly Activities**

Marketing faculty will be engaged in scholarly activities on an ongoing basis.

**4. Innovative Teaching**

Marketing faculty will implement research-based teaching strategies in class.

**Marketing -Level Student Learning Outcomes (PLSLOs):**

**PLSLO 1- Problem Solving:** Students will be able to integrate competencies from various disciplines in order to make effective business decisions. (Traits: Problem Identification Skills; Problem Analysis Skills; Problem Solving Skills; Decision Making Skills)

**PLSLO 2- Technology:** Students will be proficient in the use of relevant technologies to solve business problems (Traits: Technology Skills; Analytical Skills; Quantitative Skills)

**PLSLO 3- Global and Ethical:** Students will understand the dynamics of a global economy (Traits: Knowledge of Ethical Issues; Knowledge of Global Issues)

**PLSLO 4- Communication:** Students will learn effective communication and collaboration skills (Traits: Written Communication Skills; Oral Communication Skills; Collaborative Skills)

**PLSLO 5- Disciplinary Knowledge:** Students will master the disciplinary knowledge appropriate to the discipline of their choice (Traits: Market Orientation, Global Perspective).

**PLSLO 6- Application of Disciplinary Knowledge:** Students will demonstrate the ability to apply disciplinary knowledge to creatively solve problems (Marketing Research and Analysis Skills, Use of a Marketing Toolkit).

## MARKETING COURSE DESCRIPTIONS

### **MKTG 300 PRINCIPLES OF MARKETING - 3 semester hours**

This course is designed to cover the basic concepts of marketing management in consumer and industrial markets, and the formulation of marketing strategies relating to products, channels of distribution, promotion, and price. The course seeks to promote a managerial approach to solving marketing problems and reviews the fundamental marketing institutions, with an awareness of ethical considerations and the global environment.

### **MKTG 303 INTEGRATED MARKETING COMMUNICATIONS - 3 semester hours**

Examines the nature and role of communications in marketing, focusing on the goals and uses of advertising, sales promotion, public relations, direct marketing, and personal selling in achieving the communications objectives of marketing. Explores the design, organization, and implementation of the communications mix, and the economic, social, and ethical implications of integrated marketing communications.

**Prerequisite: COBU 301 or MKTG 300**

### **MKTG 305 BRAND MANAGEMENT - 3 semester hours**

This course will prepare students to lead a brand-centered marketing team in the consumer products/services arena. The emphasis in the course is on brands, brand-equity and strategic brand management. The course will prepare students to operate successfully to improve the long-term profitability of brand strategies in the real world.

**Prerequisite: COBU 301 or MKTG 300**

### **MKTG 306 MARKETING CHANNELS AND PHYSICAL DISTRIBUTION - 3 semester hours**

This course covers, in broad terms, all the managerial activities in the distribution of a firm's finished products from the factory to the ultimate customer. These managerial activities include model choice and carrier choice decisions, choices among storage alternatives and different channels of distribution. Functions of different channel members such as distribution centers, wholesalers, retailers and other distribution specialists and their impact on a distribution system will also be covered. In addition, this course serves as the foundation course for the distribution courses in the marketing curriculum.

**Prerequisite: COBU 301 or MKTG 300**

### **MKTG 372 MARKETING INTERNSHIP - 3 semester hours**

The marketing internship allows students to obtain practical work experiences in marketing-oriented positions of business firms under supervised conditions. The purpose is for the Internee to improve his/her quantitative and qualitative experiences as a marketing manager in a real business world under critical supervision of an on-site administrator and a marketing faculty member.

**Prerequisites: COBU 301 or MKTG 300 , MKTG 303, MKTG 305, MKTG 306 and/or permission of instructor.**

### **MKTG 401 MARKETING RESEARCH - 3 semester hours**

The course covers the concept and techniques of marketing research with special emphasis on sampling methods, interviews, statistical analysis of data and its implications. Methods of developing and evaluating research design for actual problems, collection of the information, and its analysis are stressed.

**Prerequisites: COBU 301 or MKTG 300 and COBU 260**

### **MKTG 402 ADVERTISING - 3 semester hours**

This course places emphasis on planning, budgeting, research, media selection, and preparation of advertising messages. The evaluation of advertising from an economic and social aspect by clients and agencies is emphasized.

**Prerequisite: COBU 301 or MKTG 300**

**MKTG 404 CONSUMER BEHAVIOR - 3 semester hours**

Consumer behavior is a comprehensive study of the relevant psychological, sociological, and anthropological variables that shape consumer attitude, behavior, motivation, and characteristics. Throughout the course, students should consider the issue of why consumers behave as they do in the market.

**Prerequisite:** COBU 301 or MKTG 300

**MKTG 405 SEMINAR IN MARKETING - 3 semester hours**

This course is designed to integrate the marketing concepts learned in marketing-related courses taught over the student's matriculation, and to encourage the pursuit of further research and in-depth study in the specialized field of his/her choice. Special emphasis is placed on strategic thinking through the use of lectures, classroom presentations, class discussions, projects and "field" studies of managerial issues. The course will assist the student in comprehending and incorporating the basic tenets of the discipline as he/she makes the transition from academic life to the working world and faces new perspectives of a changing and challenging world.

**Prerequisite:** COBU 301 or MKTG 300

**MKTG 406 DIGITAL MARKETING— 3 semester hours**

Examines how the Internet and other new media/technology are altering the exchange of marketing offerings between buyers and sellers. Investigates the roles of the digital channels and platforms (internet, mobile, social media, search engine etc.) as an integral element of marketing strategies, incorporating a critical evaluation of electronic commerce strategies. Provides an understanding of developing, evaluating, and executing a comprehensive digital marketing strategy. Students will complete the course with a comprehensive knowledge of and experience with how to develop and implement an integrated digital marketing strategy.

**MKTG 408 INTERNATIONAL MARKETING - 3 semester hours**

The student will focus on the principles, issues, and problems of international marketing among the nations of the world. Marketing systems in all stages of development and various approaches to marketing problems by other nations will be addressed.

**Prerequisite:** COBU 301 or MKTG 300

**MKTG 411 PURCHASING AND MATERIALS MANAGEMENT - 3 semester hours**

This course deals with management of inbound logistics activities including purchasing, transportation, storage and warehouse control, for either a manufacturing firm or any of the channel members in a distribution system. Procurement, pricing, sourcing, leasing versus purchasing and materials management tools will be emphasized.

**Prerequisite:** COBU 301 or MKTG 300 or COBU 302

**MKTG 414 RETAIL MANAGEMENT – 3 semester hours**

This course provides an in-depth coverage of the basic concepts of retailing, including retail institutions, the retail environment, consumer buying behavior, retail strategy, retail organization and information systems, store location, planning merchandise management, buying merchandise, pricing, promotion, store management, customer service, retail selling, fashion retailing, and the retailing of services. Special emphasis is given to the strategic and managerial functions involved with this area of marketing.

**Prerequisite:** COBU 301 or MKTG 300

**MKTG 415 LOGISTICS MANAGEMENT - 3 semester hours**

The course provides an in-depth overview of logistics management to include the study and analysis of integrated logistical systems, policy planning, and overall management relating to the complexities of distribution, transportation issues, consumption, redistribution and marketing.

**Prerequisite:** COBU 301 or MKTG 300

**MKTG 460 DIRECT MARKETING - 3 semester hours**

This course provides an examination of the concepts, strategies and applications involved in direct marketing, including mail order and direct response advertising. Measurability, accountability, lists, data and the integration of direct marketing programs into total marketing efforts and overall organization goals and functions will be emphasized.

**Prerequisite:** COBU 301 or MKTG 300

**MKTG 461 SALES MANAGEMENT - 3 semester hours**

A study of scientific methods of salesmanship analysis of prospects, knowledge of merchandise and its use, needs and benefits concepts, selling steps, selection and training of salesperson, theories and techniques of sales, and recognition of individual value.

**Prerequisite:** COBU 301 or MKTG 300

**MKTG 462 INDUSTRIAL MARKETING - 3 semester hours**

This course is designed to cover the basic concepts and management of industrial marketing such as the industrial marketing environment, industrial customer and market behavior, industrial marketing processes, segmentation, planning strategies, the industrial marketing mix, industrial marketing performance, and international implications.

**Prerequisite:** COBU 301 or MKTG 300

**MKTG 470 SERVICES MARKETING – 3 semester hours**

This course focuses on concepts, practices, and strategies of services marketing, as well as the complexities involved in the area. Development of specialized marketing strategies from a managerial perspective is discussed for typical service entities such as professional, financial, education, entertainment, hotel and restaurant, health care, governmental, religious, research, advertising, and media organizations.

**Prerequisite:** COBU 301 or MKTG 300

**MKTG 478 INDEPENDENT STUDY - 3 semester hours**

The course provides an opportunity for the marketing student to do an independent study in an emerging and/or state-of-the-art marketing area by investigating a problem or topic of interest in his/her area of specialization under the supervision of two professors.

**Prerequisite:** Senior Standing; Completion of the first elective course in the student's area of specialization; development of a research/study proposal for independent study that is approved by two professors who will supervise the independent study

**MKTG 489 STRATEGIC MARKETING – 3 semester hours**

An integrative capstone course, the course explores how firms develop integrated marketing programs and policies to achieve sustainable competitive advantage in the market place. It will be taught through case analysis and computer simulation of competitive market interactions.

**Prerequisites:** COBU 301 or MKTG 300; MKTG 401, MKTG 404 and Senior standing.

**BUSINESS PHASE  
MARKETING**

**Semester 5**

MISY 350	Management Information Systems	3
COBU 300	Principles of Finance	3
COBU 301	Principles of Marketing	3
COBU 302	Organization and Management	3
COBU 310	Financial Managerial Economics	3

**Total 15**

**Semester 6**

COBU 306	Business Analytics	3
MKTG 303	Integrated Marketing Communication	3
MKTG 305	Brand Management	3
MKTG 306	Marketing Channels	3
	Restrictive Business Elective	3

**Total 15**

**Semester 7**

COBU 342	Product & Process Planning	3
COBU 343	Planning & Decision Making in Organizations	3
MKTG 401	Marketing Research	3
MKTG 404	Consumer Behavior	3
MKTG	Marketing Elective	3

**Total 15**

**Semester 8**

MKTG 489	Strategic Marketing	3
MKTG 408	International Marketing	3
MKTG	Marketing Elective	3
COBU 400	Organization Policy & Strategy	3
MKTG	Marketing Elective	3

**Total 15**

## **DEPARTMENT OF MANAGEMENT AND MARKETING MANAGEMENT MINOR**

The minor in management is directed toward the student who is willing to stay in school for a minimum of 4 ½ years. It includes a major other than management and an additional 18 semester hours in management courses.

### **REQUIRED COURSES**

MGMT 300 - Organization and Management for Non-Business Majors

Or

COBU 302 - Organization and Management

**ELECTIVES** (The student may select five of the following management courses.)

MGMT 271 – Business Law

MGMT 320 - International Business

MGMT 330 - Organizational Behavior and Leadership

MGMT 340 - Personnel and Human Resources Management

MGMT 444 – Entrepreneurship and Small Business Mgmt.

MGMT 450 - Organizational Theory

MGMT 452 – Organizational Culture and Diversity

MGMT 464 – Employment Laws and Policies

MGMT 466 – Compensation Management

MGMT 480 - Organizational Development

MGMT 484 – Industrial Relations and Collective Bargaining

MGMT 490 - Seminar in Management

*The student should seek proper academic advisement from Management faculty in the Reginald F. Lewis College of Business. The student is required to meet all prerequisites before enrolling in any course.*

## **DEPARTMENT OF MANAGEMENT AND MARKETING INTERNATIONAL BUSINESS MINOR**

The minor in management is directed toward the student who is willing to stay in school for a minimum of 4 ½ years. It includes an additional 18 semester hours in business courses.

### **REQUIRED COURSES**

MGMT 300 - Organization and Management or COBU 302 - Organization and Management

FINC 415 – International Financial Management

MGMT 320 - International Business

MGMT 420 - Managing in a Global Economy

MKTG 408 - International Marketing

**ELECTIVES (Depending on the student's major, they will select one or more courses from the following to complete their 18 hours.)**

ENGL – Cultural Diversity

GEOG 210 – World Geography

MGMT 375 – Internship (must involve international business exposure)

POLI 210 – Comparative Government

STUDY ABROAD – Courses that are determined to be business-related depending on where the study will take place.

*The student should seek proper academic advisement from Management faculty in the Reginald F. Lewis College of Business. The student is required to meet all prerequisites before enrolling in any course.*

**DEPARTMENT OF MANAGEMENT AND MARKETING  
MARKETING MINOR**

The minor in marketing is directed toward the student who is willing to stay in school for a minimum of 4 ½ years. It includes a major other than marketing and an additional 18 semester hours in marketing courses.

**REQUIRED COURSES**

MKTG 300 - Principles of Marketing for Non-Business Majors or  
COBU 301 - Principles of Marketing

**ELECTIVES (The student may select five of the following marketing courses.)**

MKTG 303 - Integrated Marketing Communications  
MKTG 305 - Brand Management  
MKTG 306 - Marketing Channels  
MKTG 401 - Marketing Research  
MKTG 402 - Advertising  
MKTG 404 - Consumer Behavior  
MKTG 405 - Seminar in Marketing  
MKTG 406 - Digital Marketing  
MKTG 408 - International Marketing  
MKTG 411 - Purchasing and Materials Management  
MKTG 460 - Direct Marketing  
MKTG 461 - Sales Management  
MKTG 462 - Industrial Marketing  
MKTG 470 - Services Marketing  
MKTG 489 - Strategic Marketing

*The student should seek proper academic advisement from Marketing faculty in the Reginald F. Lewis College of Business. The student is required to meet all prerequisites before enrolling in any course.*

**DEPARTMENT OF MANAGEMENT AND MARKETING  
ENTREPRENEURSHIP MINOR**

This minor provides students with fundamental knowledge of entrepreneurship and small business management, including what it takes to launch, fund, market, and successfully operate a sustainable social or commercial enterprise.

**REQUIRED COURSES**

MGMT 444 Introduction to Entrepreneurship and Small Business Management

**MANAGEMENT ELECTIVES (Select five (5) of the following Courses)**

MGMT 445 Small Business Consulting

MGMT 446 Entrepreneurial Marketing & New Product Innovation

FINC 446 Entrepreneurial Finance

MGMT 447 Social Entrepreneurship and Sustainable Ventures

MGMT 448 Technology and Entrepreneurship

MGMT 449 Special Topics in Entrepreneurship

INLT 443 Engineering and Technology Entrepreneurship

The student should seek academic advisement from a Management faculty member in the R.F. Lewis College of Business. The student is required to meet any prerequisite course requirements before enrolling in any course. All courses taken to fulfill the minor requirements must be passed with a grade of “C” or higher.

For further information contact Dr. Venkat Mummalaneni, Department Chair for the Management and Marketing Department in Singleton Hall, Room 106 or call (804) 524-5782.

*The student should seek proper academic advisement from Management faculty in the Reginald F. Lewis College of Business. The student is required to meet all prerequisites before enrolling in any course.*

# College of Education

**Dean:** Willis Walter  
101 Harris Hall  
(804) 524-5742

## **Mission Statement**

The mission of Virginia State University's College of Education is to prepare individuals academically and professionally at the undergraduate and graduate levels. Through promoting and maintaining academic programs with current research and technology-based learning to meet the 21st Century work-force, graduates are prepared to become productive members of the local community, the state of Virginia, and the nation.

## **PROFESSIONAL EDUCATION PROGRAMS UNIT**

The Professional Education Programs Unit is housed in the College of Education. The Unit is the governing body for all programs preparing candidates for careers in the field of education. Endorsement programs are offered at the undergraduate and graduate levels. All endorsement programs are approved by the Virginia Department of Education and the Unit is accredited by the National Council for the Accreditation of Teacher Education (NCATE), now the Council for the Accreditation of Educator Preparation (CAEP).

The Unit Head is the Dean of the College of Education. Departments in the College of Education include: Teaching and Learning; Health, Physical Education, Recreation and Dance; School and Community Counseling; Administrative & Organizational Leadership; and Doctoral Studies.

## **Unit's Conceptual Framework**

The conceptual framework reflects the Unit's shared vision for preparing quality educators for work in PreK-12 schools. The overall goal of the Unit at Virginia State University, given its underlying vision, mission, and philosophy, is to facilitate the development of reflective practitioners who create positive learning environments for all students. This goal undergirds the development of successful candidates who are competent, caring, and effective. Through reflective inquiry, candidates use professional knowledge to enhance learning for all students. The following definitions are the foundation of the unit's candidate proficiencies at the initial and advanced levels:

- *Competent:* Understanding the central concepts, tools of inquiry, and structures of the content area(s). Understanding ways to enhance the learning process and learning environment through effective use of technology. Creating learning experiences and environments that make the subject matter meaningful for learners.
- *Caring:* Showing respect to all learners and empowering them to set achievable goals while maintaining high standards. Demonstrating a commitment to professionalism, continuous reflection, and application of research-based best practices.

- *Effective*: Using research-based best practices and performance assessments to guide the learning process and positively impact the learning environment to ensure that all students acquire the knowledge and skills to face the global challenges of the 21st century.
- *Reflective*: Reflecting upon and evaluating research and the success of past decisions in an effort to make better decisions in the future.

**The Department of Teaching and Learning offers the following Undergraduate Programs that leads to licensure:**

<b>Bachelor of Interdisciplinary Studies</b>	<b>Content Area Major Secondary Education Minor</b>
<ul style="list-style-type: none"> <li>• Minor in Elementary Education PreK-6</li> <li>• Minor in Special Education – General Curriculum K-12</li> <li>• Minor in Community Based Education (Non-Endorsed)</li> </ul>	<ul style="list-style-type: none"> <li>• Agriculture 6-12</li> <li>• Biology 6-12</li> <li>• Chemistry 6-12</li> <li>• English 6-12</li> <li>• Family and Consumer Sciences 6-12</li> <li>• Health and Physical Education PreK-12</li> <li>• Drivers Education add-on</li> <li>• History and Social Sciences 6-12</li> <li>• Mathematics 6-12</li> <li>• Music Education - Choral PreK-12</li> <li>• Music Education - Instrumental PreK-12</li> </ul>

### **Admissions Requirements**

Admission requirements for all licensure programs in the College of Education are outlined by each department.

### **Special Policies**

The College of Education reserves the right to make changes to any requirements for its endorsement programs according to the policies and regulations of the Virginia Department of Education.

### **Student Organizations**

The following student organizations are a part of the College of Education: Chi Sigma Iota; Kappa Delta Pi International Honor Society in Education (KDP)

## DEPARTMENT OF HEALTH, PHYSICAL EDUCATION, RECREATION AND DANCE

- Chairperson:** Linda Person  
Daniel Gymnasium, Room 106  
(804) 524-5033
- Professors:** Leon Bey, Benita Brown, Andrew Kanu, Serena Reese
- Associate Professors:** Gilbert Gipson, Linda Person
- Assistant Professors:** Tracy Lynne Jackson, Esq., Oliver Jenkins, Elijah Johnson
- Instructors:** Leslie Crocker, Daysha Downing, Donna Kanary, Brandon Kimble,  
Pamela Nicholas-Stokes

### Description of the Department

The Department of Health, Physical Education, Recreation, and Dance offers a wide range of curricula for Virginia State University students who wish to earn a Bachelor of Science Degree. Through teaching, research, and outreach-public service activities, the Department's goal is to prepare students to negotiate the demands of an ever-changing, highly competitive, and global profession.

Students completing a course of study within the Department will have acquired those competencies necessary to function as exemplary practitioners in the contemporary marketplace and as potential candidates for graduate school. Course study encompasses core curricular areas such as Foundations, First Aid, Exercise Physiology, Adapted Physical Education, Organization and Administration of Sport, Health and Wellness, skills in lifetime sports, and internship experiences in each minor area. In addition, students may seek an endorsement in Drivers Education.

### Mission of the Department

The Department of Health, Physical Education, Recreation, and Dance is a component of the College of Education. In harmony with the mission of the College, the Department's purpose is to prepare professionals to serve the public in the areas of teaching, health and wellness, leisure and recreation, sport management, and allied fields.

This purpose is facilitated through teaching, research/technology-based activities, outreach-public service endeavors, practical experiences, and graduate school preparation strategies. These components are designed to prepare students to negotiate the demands of a global marketplace that require a sensitivity to members of diverse cultures and special populations.

### General Department Objectives

Graduates of the department should be able to:

- Describe the foundation of history, science, philosophy and techniques needed to develop professionals in health, physical education, recreation, dance, and sport management.
- Discuss and reflect on the engagement of professional, social, ethical, and essential practices in health and fitness among culturally diverse communities.
- Relate, design, implement, and evaluate evidence-based practices acquired in major course work to field-based experiences.
- Apply critical thinking skills to science-based research in the fields of health, physical education,

recreation, dance, and sport management.

- Demonstrate the effective use of technology to promote professional practice and improve communication.

### **Major, Minors, Endorsement Opportunities, Other Programs Offered**

The Bachelor of Science in Health and Physical Education, prepares students for careers in the areas of Dance, Health, Physical Education, Recreation, and Sport Management.

#### **Minors**

The Department offers the following minors for students who are pursuing a Bachelor of Science Degree in Health and Physical Education: Health and Physical Education PreK-12, Health Science, Community Health, Public Health, Recreation, and Sport Management.

#### **Endorsement Opportunities**

##### **Teaching Endorsement:**

Students participating in the PreK-12 HPERD Teacher Preparation program must complete competency tests assigned from the Commonwealth of Virginia. These core assessments include the VCLA and Core math assessment as well as the Praxis 2 content assessment. Once completing and passing Virginia related assessments, successful candidates seek admittance to the College of Education. Accepted students must have a 2.5 GPA and a “C” or higher on all major courses.

##### **Driver Education (Add-on Endorsement):**

Students seeking an add-on endorsement in Driver Education shall have an endorsement in a secondary area (such as Physical Education) and enroll in the following courses:

HLTH 143 Principles of Accident Causation and Prevention	3 hrs
HLTH 445 Driver Education Instructional Principles	3 hrs

#### **Sankofa Dance Theatre**

The HPER Department features the Virginia State University’s Sankofa Dance Theatre. Sankofa is the official theatrical dance company at Virginia State University. It is the professional, performing arts extension of the dance minor. Students perform lyrical, modern, jazz, hip-hop, African-Diaspora, and traditional African dance in professional presentations throughout the University and surrounding community. Upon a successful audition, students must register for dance classes during each semester that the student is involved with Sankofa Dance Theater. Participation in Sankofa Dance Theatre is mandatory for the minor in Dance.

#### **The VSU Fitness/Wellness Center**

The VSU Fitness/Wellness Center is located in Daniel Gymnasium and is open to VSU students, faculty, and staff. The Fitness/Wellness Center offers a plethora of cardio and weight training equipment for patrons to use.

#### **Swimming Pool**

The swimming pool is available for the Virginia State University community, student activities and outside vendors. The area contains spectator seats and a variety of equipment for use in the swimming pool.

## **DANCE**

### **Course Descriptions**

#### **DANC 100 FOUNDATIONS OF DANCE - 3 semester hours**

An introduction to career options focusing on dance as education, performance, recreation and therapy-including the development of a dance portfolio. This course is offered online through Distance Education during the summer session. The course is offered as a hybrid course during the Fall and Spring.

#### **DANC 101 BALLET I - 3 semester hours**

Introduction to the basic concepts, movement and theory of ballet techniques.

#### **DANC 102 BALLET II - 3 semester hours**

Further studies in the concepts, movement and theory of ballet techniques.

**Prerequisites: DANC 100; DANC 101 or consent of instructor**

#### **DANC 201 MODERN DANCE I**

An introduction to the concepts and disciplines of Modern Dance. The utilization of basic concepts in modern dance techniques and terminology will be the central focus of classroom instruction.

#### **DANC 202 MODERN DANCE II**

An intermediate introduction to the concepts and disciplines of Modern Dance technique and terminology.

#### **DANC 250 DANCE CONDITIONING**

Introduction to the basic concepts, movement, and vocabulary of dance in combination with conditioning and toning exercises specifically for the dancer as an athlete in training. Aerobic dance activity, weightlifting, and toning of the muscles are included in the course activities. Dancer conditioning techniques such as Yoga, Pilates, Dunham, Horton, Martha Graham, et al. will be visited and revisited in various muscle conditioning and educational contexts.

#### **DANC 203/204/205/206/207/208/209/210**

A study of dance compositions based on elements of dance styles as the performing arts. Laboratory problems with criticism and preparation problems in staging dance for the theater.

#### **DANC 301 JAZZ DANCE I**

A basic introduction to build strength, flexibility, and endurance for execution of basic Jazz Dance concepts through floor exercises and combinations. Musicality in dance will be explored, and an understanding of proper body alignment and posture will be emphasized. There will also be an introduction to notable performers and some historical and cultural aspects of jazz through discussion and video observation.

#### **DANC 302 JAZZ DANCE II**

This course is designed to build strength, flexibility, and endurance for execution of intermediate-level Jazz Dance concepts through floor exercises and combinations. Musicality in dance will be explored, and an understanding of proper body alignment and posture will be emphasized. There will also be an introduction to notable performers and some historical and cultural aspects of jazz through discussion and video observation.

#### **DANC 328 ADVANCED DANCE COMPOSITION - 3 semester hours**

The incorporation of various themes, music, staging and movement techniques. Students will have laboratory assignments of creating dances with small groups. Laboratory problems will include dance criticism and preparation problems in staging dance for the theatre as well as actual performances in front of a live audience.

**DANC 355 DIRECTED RESEARCH – 3 semester hours**

Structured research in dance presented as an undergraduate research publication or conference presentation.

**DANC 378 HISTORY OF DANCE AND THE BLACK EXPERIENCE - 3 semester hours**

An online survey course about dance history in America and the contributions of African Americans to historical and current trends in dance.

**DANC 401 AFRICAN/CARIBBEAN DANCE FORMS I - 3 semester hour**

Online course covering the historical and socio-cultural implications that influence dance movements found in Africa, the Caribbean, and the Americas.

**DANC 402 AFRICAN/CARIBBEAN DANCE FORMS II - 3 semester hours**

Intermediate to advanced movement sequences as well as socio-cultural implications that accompany traditional dances found in Africa and the Caribbean.

**DANC 404 SOMATIC MOVEMENT AND THEATRE - 3 semester hours**

Interwoven interdisciplinary movement techniques exploring the interface of dance and drama. Includes dancing through mental imagery, interpreting stories, scripts, poetry, and techniques of improvisation and composition.

**Prerequisite: DANC 100 or consent of instructor**

**DANC 471 INTERNSHIP SEMINAR - 1 semester hour**

This course involves observation and practice of leadership in a supervised Dance organization. Students must investigate all aspects of potential sponsoring organizations, their expectations of internship, and how they can maximize their field experience toward professional growth.

**Note: Conference with teacher of record is required immediately upon registration of this course.**

**DANC 472 INTERNSHIP - 3 semester hours**

Supervised work experience under expert guidance at approved sites (as well as onsite) provided for the prospective professional in Dance. Emphasis is on various individual and group opportunities in dance performances, involving theories, techniques, managerial tasks, administrative procedures, dance production, and working with individuals, in the surrounding community including, public schools, community centers, recreation centers, dance studios, and government facilities. Internship is designed to secure enriching experiences in all aspects of the dance profession that will enable students to grow personally and professionally in the field of dance.

**Note: Conference with teacher of record is required immediately upon registration of this course**

## HEALTH

### **HLTH 143 PRINCIPLES OF ACCIDENT CAUSATION AND PREVENTION - 3 semester hours**

This course is designed to present an overview of the dimensions of the accident problem with special attention to accident prevention, concepts and theories. Emphasis is placed on student safety and other legal issues, signs, signals, pavement markings, and right-of-way rules; interaction with other highway users (pedestrians, animals, motorcycles, bicycles, trucks, buses, trains, trailers, motor homes, ATVs, and other recreational users); time/space and risk management; alcohol and other drugs and driving; behavior aspects of crash prevention and the natural laws of driving; adverse driving conditions and emergencies; planning ahead for a trip.

### **HLTH 210 FOUNDATIONS OF HEALTH SCIENCE - 3 semester hours**

This course is designed to provide students with an introduction to the historical and philosophical perspectives of the development of health science/public health. Major concepts and theories of health and characteristics of public health and health promotion/education are reviewed. Career opportunities in the health field are also explored.

### **HLTH 311 SPECIAL TOPICS IN HEALTH - 3 semester hours**

This course provides opportunities for students to pursue topics of interest in Health beyond those accessible via the standard curriculum. The application of content to authentic situations is stressed.

**Prerequisite: Consent of instructor**

### **HLTH 330 DRUG USE AND DRUG ABUSE EDUCATION - 3 semester hours**

This course will discuss the different categories of drugs and explain their routes of administration. Patterns of illicit drug use, misuse, and abuse, including who uses illicit drugs and abuse of controlled substances and why they use them, will also be addressed. The legal, social, financial, and personal impact of drug abuse will be addressed.

**Prerequisite: HLTH 210 or consent of instructor**

### **HLTH 337 HEALTH PRACTICUM - 3 semester hours**

Provides various opportunities for the professional student to work with individuals and groups in a variety of settings. These opportunities shall include observation and/or participation in health related activities in school and/or community locations.

**Prerequisite: Consent of instructor**

### **HLTH 340 COMMUNITY HEALTH - 3 semester hours**

Designed to cover community health issues relating to foundations and organizations of public health. It includes the study of community health organizations and programs, epidemiology and disease control, environmental health, community and occupational safety and health, the health care system, aging, and other community health issues.

**Prerequisite: HLTH 210 or consent of instructor**

### **HLTH 342 CONTEMPORARY HEALTH ISSUES - 3 semester hours**

Designed to meet the educational needs and interests of students through a study of contemporary health issues. Specific topics relevant for today's society will be determined and covered including women's health concerns, nutrition and nutritional disorders, pre-menstrual syndrome, sexually transmitted diseases, domestic violence, child abuse, rape, and cancer. Cardiovascular diseases and others may also be included.

**Prerequisite: HLTH 210 or consent of instructor**

**HLTH 343 CULTURAL DIVERSITY IN HEALTH COUNSELING - 3 semester hours**

This course focuses on health traditions of culturally diverse clients and how those traditions must be considered during effective patient education. The course will move from the general health traditions of world populations and religions, to the more specific behaviors and expectations of U.S. populations.

**Prerequisite:** HLTH 210 or consent of instructor

**HLTH 346 SCHOOL AND COMMUNITY HEALTH PROGRAMS - 2 semester hours**

This course demonstrates the organization and administration of comprehensive school and community health programs. Topics include: student safety, child abuse, and other legal issues, health services, instruction, program planning and assessment, the role of administration in comprehensive school health, personal health and fitness, active lifestyles and health, environmental, mental and emotional health, family disruptions, nutrition, tobacco, alcohol and other drugs, school and consumer health, and disease prevention and treatment. An overview of the knowledge, skills, and processes needed to teach school health on the elementary, middle, and secondary levels is also provided.

**Prerequisite:** HLTH 210 or consent of instructor

**HLTH 347 FIRST AID AND EMERGENCY MEDICAL CARE - 2 semester hours**

Lectures and demonstrations on first aid measures for wounds, hemorrhages, burns, exposure, sprains, dislocations, fractures, unconscious conditions, suffocation, drowning, and poisons, with skill training in all procedures. Emphasis will be given to the following areas: safety and other legal issues, activating emergency medical services, safety and emergency care (first aid, CPR, AED, universal precaution), injury prevention, rehabilitation, an understanding of the basic content knowledge needed to teach first aid, and the structure and function of selected body systems. Successful completion of this course may lead to certification by the American Heart Association or the American Red Cross in First Aid and Cardiopulmonary Resuscitation.

**Prerequisite:** Consent of instructor

**HLTH 348 DIRECTED RESEARCH - 3 semester hours**

This course is designed to provide opportunities for the pursuit of in-depth knowledge and understanding of a variety of significant and emerging health problems and issues in the health care industry.

**Prerequisite:** Consent of instructor

**HLTH 349 SCIENTIFIC READINGS IN HEALTH – 3 semester hours**

A course that provides comprehensive knowledge, understanding and concepts in various areas of health.

**Prerequisite:** Consent of instructor

**HLTH 440 HUMAN REPRODUCTION AND SEXUAL DEVELOPMENT – 3 semester hours**

This course is intended for majors in Health and Physical Education and others who will use knowledge of the subject matter covered in their professional work. Anatomy and physiology of male and female reproductive systems; psychosocial sexual development, sources of sexual outlet; and family planning relationships are among discussion topics.

**Prerequisite:** HLTH 210 or consent of instructor

**HLTH 441 HEALTH TEACHING METHODS AND MATERIALS - 3 semester hours**

Fundamental methods of health teaching as applied to school and public health education. Materials applicable to health education, evaluation techniques, preparation of health training units and bibliographies, and surveys of current literature in the field of health education are presented and/or researched.

**Prerequisite:** HLTH 210 or consent of instructor

**HLTH 443 EPIDEMIOLOGY AND BIostatISTICS - 3 semester hours**

This course emphasizes the goals and objectives of epidemiology, its policy and procedure, and its foundation and support in health care information are the focus of this course. Investigation of an epidemic, measures of mortality, incidence and prevalence, measures of risk, biological variability, probability, screening, sampling, statistical significance, correlation, multiple regression, survival analysis, retrospective and prospective studies.

**Prerequisite:** HLTH 210; STAT 210 or consent of instructor

**HLTH 445 DRIVER EDUCATION INSTRUCTIONAL PRINCIPLES - 3 semester hours**

This course is designed to provide an analysis of the rules and regulations governing driver education in the Commonwealth of Virginia with application to program organization and administration, and the

development and conduct of learning experiences in the classroom and laboratory. It also provides a guide for teachers, supervisors, and administrators in the organization, administration and planning of a driver and traffic safety curriculum.

**Prerequisite: Junior standing or consent of instructor; HLTH 143**

**HLTH 447 NEEDS ASSESSMENT AND PLANNING HEALTH PROMOTION PROGRAMS - 3 semester hours**

Principles of program planning in public health education, including needs assessment, health hazard appraisal, community analysis and organization, selection of program topics, coordination of health education and health promotion programs in school, community, occupational or clinical settings, audience analysis, task analysis, and the role of evaluation.

**Prerequisite: HLTH 210, STAT 210 or consent of instructor**

**HLTH 450 INSTRUCTIONAL STRATEGIES FOR HEALTH EDUCATION - 3 semester hours**

Application of innovative strategies for teaching health education in the elementary, middle, and secondary school level. Attention is given to conceptualizing instruction, specifying instructional objectives, planning properly written units and lessons, utilizing various instructional methods, selecting and using instructional materials, and evaluating teaching effectiveness and technology. Topics include personal health and fitness-related issues such as: mental and emotional health, healthy social development skills, basic consumer, environmental and school health, nutrition, tobacco, alcohol and other drugs, basic disease prevention and treatment strategies, and the relationship between a physically active lifestyle and health.

**Prerequisite: HLTH 210 or consent of instructor**

**HLTH 451 INDEPENDENT STUDY IN HEALTH - 3 semester hours**

This course provides an opportunity for students to work independently on health related topics approved under the guidance of an instructor.

**Prerequisite: Consent of instructor**

**HLTH 471 INTERNSHIP SEMINAR - 1 semester hour**

This course involves observation and practice of leadership in a supervised health organization. Students must investigate all aspects of potential sponsoring organizations, their expectations of internship, and how they can maximize their field experience toward professional growth.

**Prerequisite: Senior standing or consent of instructor**

**HLTH 472 INTERNSHIP – 3 semester hours**

Supervised work experience under expert guidance at approved sites provided for the prospective professional in Health. Emphasis is on various individual and group opportunities in health agencies, involving theories, techniques, managerial tasks, administrative procedures and working with exceptional individuals. Internship is designed to secure enriching experiences in all aspects of the organization that will enable students to grow personally and professionally.

**Prerequisite: Senior Standing or consent of instructor**

**GENERAL EDUCATION HEALTH AND WELLNESS**

**HPER 160 TEAM SPORTS/WELLNESS – 1 semester hour**

This course is designed to provide students with the development of basic skills and abilities needed to perform a variety of team sports and their relationship to personal health, wellness, and physical activity.

**HPER 162 TEAM SPORTS II/WELLNESS- 1 semester hour**

A continuation of HPER 160, this course is designed to provide students with the development of basic skills and abilities needed to perform a variety of team sports and their relationship to personal health, wellness, and physical activity.

**HPER 165 PERSONAL FITNESS- 1 semester hour**

Introductory level course designed to assist students with the development of lifetime fitness programs. Content includes the integration of personal health-related (flexibility, strength, aerobic endurance, body composition) and skill-related (coordination, agility, power, balance, speed) fitness components.

**HPER 166 BEGINNING SWIMMING/WELLNESS- 1 semester hour**

This course is designed for non-swimmers to equip students with basic water skills and knowledge needed to make them reasonably safe while in, on, or about the water. Satisfactory completion of this course enables the student to meet the requirements for the American Red Cross Beginner Swimming Certificate.

**HPER 167 INTERMEDIATE SWIMMING/WELLNESS – 1 semester hour**

Refine five basic strokes; development of endurance; drown proofing and water safety techniques; standing and running dives, and the relationship of swimming skills to personal health and fitness. This course is designed for the student who has passed beginning swimming or who already possesses beginner swimming skills.

**HPER 169 GYMNASTICS/WELLNESS – 1 semester hour**

A basic course in gymnastics designed to assist students in acquiring fundamental skills in stunts, tumbling, and selected apparatus, and their relationship to personal health and fitness.

**HPER 170 HEALTH AND WELLNESS- 2 semester hours**

Health encompasses all aspects of an individual's wellbeing. School, work, relationships, social, and family responsibilities are all affected by the quality of health. This course is designed to help participants establish lifestyles that can lead to better health.

**HPER 171 LIFETIME SPORTS/WELLNESS – 1 semester hour**

Development of fundamental skills and knowledge of rules needed to perform a variety of individual sports and their relationship to personal health and fitness.

**HPER 172 LIFETIME SPORTS II/WELLNESS- 1 semester hour**

A continuation of HPER 171, this course is designed to provide a development of fundamental skills and knowledge of rules needed to perform a variety of individual sports and their relationship to personal health and wellness.

**HPER 182 SKILLS/FIELD EXPERIENCE IN COACHING 1 semester hour**

The coaching practicum involves three separate practicum experiences (softball, baseball, basketball, soccer, tennis, etc.) and is designed to provide the student with a realistic experience in a setting and level similar to that in which he/she wishes to obtain employment. The practicum experience is a 50 hour learning opportunity in which the student assist in all phases of the operation of an athletic program. The student may not be the head coach, unless a direct supervisor is present.

**HPER 188 BEGINNING TENNIS – 1 semester hour**

An introductory course teaching the fundamental skills of tennis. Basic strokes; the forehand and the backhand drives, the flat serve, volley, lob, and smash; history, rules, scoring, and court etiquette. Basic singles and doubles court play and game strategies. In addition, warm-up and cool-down procedures, as well as conditioning and nutrition for sport participation are covered.

**HPER 190 AQUA AEROBICS – 1 semester hour**

This course is designed to provide students with the knowledge, skills, and abilities needed to develop proper water aerobics form and techniques and to explore the benefits of water aerobic exercise. The proper of use of water aerobics exercise equipment is also explored.

## SPORT MANAGEMENT

### **PESM 200 – FOUNDATIONS OF SPORT MANAGEMENT- 3 semester hours**

This course will introduce students to the sports industry, the history and principles of sports, the wide range of career opportunities involving sports, and the economic impact of sports in America.

**Prerequisite: Consent of instructor.**

### **PESM 301 SPECIAL TOPICS IN SPORT MANAGEMENT - 3 semester hours**

This course provides opportunities for students to pursue topics of interest in sport management beyond those accessible via the standard curriculum. The application of content to authentic situations is stressed.

**Prerequisite: Consent of instructor.**

### **PESM 330 SPORT MARKETING - 3 semester hours**

A study and critical examination of the marketing mix (product, price, place and promotion) related to sports marketing. Special emphasis will be placed on production and advertising and sales techniques applied to educational environments, athletic programs and to amateur and professional sports.

**Prerequisite: PESM 200 or consent of instructor.**

### **PESM 350 SPORT FACILITY AND EVENT MANAGEMENT - 3 semester hours**

This course will provide students with effective management skills for the operation of sport facilities in regard to operations, security, and event planning.

**Prerequisite: PESM 200 or consent of instructor**

### **PESM 402 DIRECTED RESEARCH - 3 semester hours**

This course is designed to provide opportunities for the pursuit of in-depth knowledge and understanding of a variety of significant and emerging sport management issues in the instructional program.

**Prerequisite: Consent of instructor**

### **PESM 405 SPORT IN AMERICAN SOCIETY - 3 semester hours**

Discusses the phenomenon of sport as it represents one of the most pervasive social institutions today.

The major theme of this course is to demonstrate how sports reflect and enforce the beliefs, values, and ideologies of society. Emphasis is placed on changing attitudes and current trends in the world of sports. The course will be taught from a sociological and philosophical perspective.

**Prerequisite: PESM 200 or consent of instructor.**

### **PESM 406 SPORT LAW - 3 semester hours**

This course is the identification and application on various areas of law to the sports industry. Includes how constitutional law, contract law, employment law and tort law impact sport management decisions and the sports industry.

**Prerequisite: PESM 200 or consent of instructor.**

### **PESM 408 FINANCIAL ASPECTS OF RECREATION AND SPORT MANAGEMENT - 3 semester hours**

This course will investigate fund raising activities and the appropriate use of financial resources within the sport industry.

**Prerequisite: PESM 200 or consent of instructor.**

### **PESM 472 INTERNSHIP – 3 semester hours**

Supervised work experience under expert guidance at approved sites provided for the prospective professional in sport and recreation management. Emphasis is on various individual and group opportunities in sport and recreation management organizations involving theories, techniques, managerial tasks, administrative procedures and working with exceptional individuals. Internship is designed to secure enriching experiences in all aspects of the organization that will enable students to grow personally and professionally. 300 supervised hours required.

**Prerequisite: Senior Standing or consent of instructor.**

## PHYSICAL EDUCATION

### **PHED 120 FOUNDATIONS OF PHYSICAL EDUCATION - 2 semester hours**

An introduction to the personal and professional challenges and opportunities available in the field of human movement. Its primary purpose is to help the student gain insight into the broad discipline of physical education; to acquaint the student, generally, with the organized body of knowledge embraced within the discipline of physical education; and to show the proper relationship of physical education to the fields of health and recreation.

### **PHED 125 BODY MECHANICS -1 semester hour**

This course is a requirement for all physical education majors. The primary purpose of this course is to acquaint students with the basic knowledge, understanding, and value of physical activity as related to optimal healthful living. Emphasis is placed on improving students' performance of basic gross motor skills.

### **PHED 126 THEORY AND PRACTICE OF GYMNASTICS AND APPARATUS -1 semester hour**

Acquaints students with basic knowledge, understanding, and value of gymnastics as related to optimal healthful living. Emphasis is placed on improving students' performance of basic gross motor skills, and the utilization of physical fitness assessment data to plan and implement a lifelong personal fitness program. Content includes the incorporation of scientific principles of movement as they apply to personal health-related fitness (flexibility, strength, aerobic, endurance, body composition) and personal skill-related fitness (coordination, agility, power, balance, and speed).

### **PHED 127 BEGINNING SWIMMING -1 semester hour**

course is designed to equip students with basic water skills and knowledge needed to make them reasonably safe while in, on, or about the water. Attention given to safety and emergency care (First Aid, CPR, Universal Precaution).

### **PHED 128 INTERMEDIATE SWIMMING -1 semester hour**

Upon completion of this course, students should comprehend the elements of good swimming. Instruction in intermediate swimming is given to students who have taken and passed the beginner's swimming course, or those who have never had swimming instruction but can pass the beginner's swimming test.

### **PHED 200 TEAM SPORTS I - 1 semester hour**

The development of physical skills and an understanding of the knowledge, skills, and abilities needed to teach soccer, volleyball, and softball on the preK-12 levels. Content includes an analysis of skills, progressions, drill, error analysis, and corrections, and the development of rudimentary One unit and three lesson plans for each activity. The cultural significance of team sports, competition, and sportsmanship is also included.

### **PHED 201 TEAM SPORTS II -1 semester hour**

The development of basic skills and an understanding of the knowledge, skills and abilities needed to teach a variety of team sports including basketball, softball, and flag football on the preK-12 levels. Content includes an analysis of skills, progressions, drill, error analysis, and corrections, and the development of rudimentary units and lesson plans for each activity. The cultural significance of team sports, competition, and sportsmanship is also included.

### **PHED 211 LIFETIME SPORTS I -1 semester hour**

The development of physical skills and an understanding of the knowledge, skills, and abilities needed to teach a variety of individual sports, including archery, badminton, and bowling on the preK-12 levels. Content includes an analysis of skills, progressions, drill, error analysis, and corrections, and the development of rudimentary unit and lesson plans for each activity. The cultural significance of individual sports, competition, and sportsmanship is also included.

**PHED 212 LIFETIME SPORTS II – 1 semester hour**

The development of physical skills and an understanding of the knowledge, skills, and abilities needed to teach a variety of individual sports, including golf, tennis, track and field on the preK-12 levels. Content includes an analysis of skills, progressions, drill, error analysis, and corrections, and the development of rudimentary one unit and lesson for each activity plans. The cultural significance of individual sports, competition, and sportsmanship is also included.

**PHED 217 LIFESAVING - 2 semester hours**

Course designed to enable students to meet the requirements for the American National Red Cross Advanced Lifesaving Certificate.

**Prerequisites:** PHED 127 Beginning Swimming; PHED 128 Intermediate Swimming

**PHED 232 COACHING AND OFFICIATING - 2 semester hours**

Concepts and competencies applicable for the physical educator who desires breadth and depth of preparation in athletic coaching and officiating. Designed to prepare the student to understand the role of coaching and the art of officiating in ways that complement his/her basic knowledge of each course activity and its skills.

**PHED 238 WATER SAFETY - 3 semester hours**

Satisfactory completion of this course qualifies the student for the American National Red Cross Instructor's Certificate. **Prerequisite** Advanced Swimming; **Intermediate level or above.**

**PHED 274 HISTORY, PRINCIPLES AND OBJECTIVES OF PHYSICAL EDUCATION - 3 semester hours**

The study of the historical foundations of physical education from earlier times to the present and their implications for society. Attention is given to understanding principles which have been developed to insure a valid interpretation of the place of the physical education program. Content also includes the cultural significance of dance, leisure, competition, and sportsmanship, and the value of physical fitness.

**Prerequisites:** PHED 120 Foundations of Physical Education or consent of instructor.

**PHED 329 MOTOR LEARNING - 2 semester hours**

Course designed to provide the student with an understanding of motor behavior. It is specifically concerned with the efficacy of motor skill acquisition and motor skill performance. 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. This course also covers the basics of research design.

**Prerequisites:** PHED 125

**PHED 335 RHYTHMIC FORMS -1 semester hour**

Explores the historical perspective and cultural significance of American and international folk, square, and social dance, and their steps, patterns, and formations. Integrates an understanding of personal health and skill-related fitness components (e.g., flexibility, strength, coordination and balance). And the knowledge, skills, and processes needed to teach rhythmic forms and dance. Attention given to the selection, development, and utilization of appropriate instructional resources, and technology.

**PHED 338 KINESIOLOGY - 3 semester hours**

Course designed to provide the student with an understanding of the anatomical and biomechanical bases of human motion, with applications for motor skill acquisition, and developmental and rehabilitative exercise. This course also emphasizes the application of mechanical physics to body movement and sports medicine.

**Prerequisites:** BIOL 318 Human Anatomy; BIOL 319 Human Physiology; or consent of instructor

**PHED 339 MEASUREMENT AND EVALUATION IN HEALTH AND PHYSICAL EDUCATION - 3 semester hours**

The focus of this course is on the development of evaluation and measurement skills used by teachers and administrators of physical education throughout the nation. Major emphasis is placed on interpreting descriptive statistics and developing test construction techniques. Students are given many opportunities to administer physical performance tests and to acquire knowledge of different grading techniques.

**Prerequisites:** PHED 120 Foundations of Physical Education or consent of instructor.

**PHED 343 ELEMENTARY SCHOOL PHYSICAL EDUCATION METHODS AND ACTIVITIES -  
2semester hours**

Provides knowledge, skills, and processes needed to teach elementary physical education. Includes the election, development, and utilization of appropriate instructional methods, resources, and technology. Emphasis is place on: the importance of the development and maintenance of physically active lifestyles and good health, skills theme approaches and developmental physical education; activities designed to help students understand, develop and value personal fitness; cooperative activities; and activities for special and diverse populations including gifted and talented. Field experiences in this course will provide opportunities for pre-candidates to observe and participate in different roles as a teacher in a school setting prior to doing student teaching. Pre-candidates will observe experienced teachers in a clinical setting to properly orientate them to the teaching profession.

**Prerequisites: EDUC 201 and 202.**

**PHED 344 MIDDLE AND SECONDARY SCHOOL  
PHYSICAL EDUCATION METHODS AND ACTIVITIES–3 semester hours**

Methods and materials of teaching physical education in secondary schools. Emphasis is on program content, and the selection, organization, and guidance of learning experiences appropriate for secondary level students. Content also includes a review of personal health-related (flexibility, strength, aerobic, endurance, body composition) and skill-related (coordination, agility, power, balance, speed) fitness components, an understanding of the knowledge, skills, and processes needed to teach cooperative activities, team and individual activities, the relationship between a physically active lifestyle and health. The value of lifelong fitness programs, activities for the mentally and physically challenged, activities for the talented and gifted and the cultural significance of dance, leisure, competition, and sportsmanship. Field experiences in this course will provide opportunities for pre-candidates to observe and participate in different roles as a teacher in a school setting prior to doing student teaching. Pre-candidates will observe experienced teachers in a clinical setting to properly orient them to the teaching profession.

**Prerequisites: PHED 120 Foundations of Physical Education or consent of instructor.**

**PHED 400 ADAPTED PHYSICAL EDUCATION - 3 semester hours**

This course is designed to provide the student with an understanding of disabling conditions, definitions, and implications as they relate to special education, adapted physical education, injury prevention and rehabilitation, the regular physical education program, integration, and future trends. Emphasis is placed on instructional methods and materials as well as teaching laboratory practical experiences, teaching and planning methods appropriate for exceptional students and the integration of technology.

**Prerequisites: PHED 120 Foundations of Physical Education or consent of instructor.**

**PHED 401 ORGANIZATION AND ADMINISTRATION OF HEALTH PHYSICAL EDUCATION,  
RECREATION AND ATHLETIC PROGRAMS - 3 semester hours**

Provides a basic understanding of the many aspects of administering health, physical education, recreation and athletic programs on the pre k-12 levels, in colleges and universities, as well as in recreational and private industry sectors. Content includes the need for quality instruction, risk management, student safety and other legal issues, the role of administration in comprehensive school health programs and personnel and programmatic planning, management, and assessment. Contemporary and computer-driven team building exercises, research presentations, and community service projects, afford students opportunities to integrate theoretical concepts into practical application, and strengthen their verbal, written and technological levels of proficiency.

**Prerequisites: Completion of junior year or consent of instructor.**

**PHED 402 STUDENT TEACHING IN HEALTH AND PHYSICAL EDUCATION -  
2 semester hours**

This course is designed to provide supervision in the content area for pre-service secondary health and physical education candidates and involves observing student teachers. Coursework includes class instruction on student developed and implemented projects in assessment, technology, school culture as well as lesson and unit planning.

**Prerequisites: Departmental Approval**

**Prerequisites: PHED 120 Foundations of Physical Education or consent of instructor.**

**Co-requisites: EDUC 401 Student Teaching Seminar; EDUC 402 Student Teaching**

**PHED 403 PHYSIOLOGY OF EXERCISE - 3 semester hours**

This course is designed to provide the student with a better understanding of the physiological aspects of physical activity, relationships between physical activity, fitness and health, knowledge of the basic fundamentals necessary to understand and apply exercise physiology, and guidelines for devising and managing programs for both active and sedentary individuals. Physical fitness assessments will be conducted during this course.

**Prerequisites:** BIOL 318 Human Anatomy and Physiology

**PHED 407 SPORT PSYCHOLOGY - 3 semester hours**

This course presents the theoretical and empirical foundations of sport psychology. Operating from a conceptual rather than an applied framework, this class develops an understanding of social psychological phenomena and processes related to participation in sport and physical activity (e.g., personality, anxiety, arousal, achievement motivation, social facilitation, aggression, emotions, and fan behavior).

**Prerequisites:** PHED 120 Foundations of Physical Education; Senior standing or consent of instructor

## RECREATION

### **RECR 100 FOUNDATIONS OF RECREATION AND LEISURE - 3 semester hours**

Community recreation programs, including camping, survey of agencies, activities in the recreation program, recreation as a profession, trends, and an introduction to the literature in the field.

### **RECR 200 INTRODUCTION TO THERAPEUTIC RECREATION - 3 semester hours**

Theoretical, philosophical, and historic foundation of therapeutic recreation; role of treatment and rehabilitation with a survey of major services and settings.

### **RECR 231 TOURISM AND COMMERCIAL RECREATION - 3 semester hours**

Analysis of private, commercial, and industrial recreation fields, focusing on economic impact, marketing strategies, consumer protection, and career opportunities.

**Prerequisite: RECR 100; or consent of instructor**

### **RECR 301 SPECIAL TOPICS IN RECREATION - 3 semester hours**

This course provides opportunities for students to pursue topics of interest in Recreation beyond those accessible via the standard curriculum. The application of content to authentic situations is stressed.

**Prerequisite: Consent of instructor.**

### **RECR 321 LEISURE PROGRAM DEVELOPMENT - 3 semester hours**

An examination of the principles and practices of leisure programming in terms of needs assessments, development, content, public relation, funding, facilities, leadership, and evaluation. Program methodologies in municipal, voluntary, private, religious, and commercial agencies will be examined.

**Prerequisite: RECR 100; or consent of instructor.**

### **RECR 350 LEISURE SERVICE MARKETING - 3 semester hours**

This course involves the study of the theoretical/practical application of marketing/advertising strategies in the development/delivery of leisure services.

**Prerequisite: RECR 100; or consent of instructor**

### **RECR 351 MANAGEMENT OF LEISURE SERVICES - 3 semester hours**

Problems commonly encountered in establishing and organizing leisure programs, services, playgrounds, youth centers, community centers, campus and other areas and facilities.

**Prerequisite: RECR 100; or consent of instructor**

### **RECR 352 CAMP COUNSELING/OUTDOOR LEISURE ACTIVITIES - 3 semester hours**

Knowledge and skills of contemporary, non-competitive activities suitable for participation throughout life, e.g. camping, hiking, walking, etc. Special emphasis is placed on the tenets of outdoor cooperative living.

**Prerequisite: RECR 100; or consent of instructor.**

### **RECR 353 RECREATION ACTIVITIES AND LEADERSHIP METHODS - 3 semester hours**

Principles of leading, planning, and supervising a wide range of social recreational activities including parties, dances, picnics, special celebrations, and a variety of quiet games.

**Prerequisite: RECR 100; or consent of instructor**

### **RECR 354 RECREATIONAL AREAS AND FACILITIES - 3 semester hours**

Study of planning and design concepts, standards and guidelines, use continuum, grants, and planning of selected areas and facilities; parks, pools, centers, and recreation resource areas development. Major emphasis placed upon the construction, planning, layout, and maintenance of recreation areas and facilities. **Prerequisite:**

**RECR 100; or consent of instructor**

### **RECR 402 DIRECTED RESEARCH IN RECREATION - 3 semester hours**

This course is designed to provide opportunities for the pursuit of in-depth knowledge and understanding of a variety of significant and emerging recreation issues in the instructional program.

**Prerequisite: Consent of instructor**

**RECR 453 THEORY AND PHILOSOPHY OF RECREATION - 3 semester hours**

An examination of philosophical concepts and issues of recreation and leisure with a focus upon current trends and issues in professional leisure service delivery. Play, games, work, and recreation are studied as aspects of human behavior affected by global, physical, societal, and personal concerns.

**Prerequisite: RECR 100; or consent of instructor**

**RECR 471 INTERNSHIP SEMINAR - 1 semester hour**

This course involves observation and practice of leadership in a supervised Recreation organization. Students must investigate all aspects of potential sponsoring organizations, their expectations of internship, and how they can maximize their field experience toward professional growth.

**Prerequisite: Senior standing or consent of instructor.**

**RECR 472 INTERNSHIP - 3 semester hours**

Supervised work experience under expert guidance at approved sites provided for the prospective professional in Recreation. Emphasis is on various individual and group opportunities in recreation organizations involving theories, techniques, managerial tasks, administrative procedures and working with exceptional individuals. Internship is designed to secure enriching experiences in all aspects of the organization that will enable students to grow personally and professionally.

**Prerequisite: Senior Standing or consent of instructor.**

**DEPARTMENT OF HEALTH, PHYSICAL EDUCATION,  
RECREATION AND DANCE (HPERD)  
Bachelor of Science (B.S.)**

		<b>Semester Hours</b>		
		<b>1st Sem</b>	<b>2nd Sem</b>	<b>Total Hours</b>
<b>FRESHMAN YEAR</b>				
ENGL 110,111	Composition I, Compositions II	3	3	6
IDST 100, 101	Analytical Reading, Writing, and Reasoning I & II	2	2	4
MATH 112, 113	Basic Math I & II	3	3	6
PHED 125	Body Mechanics	1	-	1
PSYC 212	Human Growth and Development	3	-	3
History	Elective	3	-	3
HPER 165	Personal Fitness	1	-	1
HPER 170	Health and Wellness	-	2	2
PHED 120	Foundations of Physical Education	-	2	2
BIOL 116	Science (Lecture and Lab)	-	4	4
		<b>Totals</b>	<b>16</b>	<b>16</b>
<b>SOPHOMORE YEAR</b>				
EDUC 201, 202	Introduction to Teaching I, II	2	-	2
IDST 200	Digital Media in Teacher Education	3	-	3
PHED 127 or 128	Beginning or Intermediate Swimming	1	-	1
Global Studies	Elective	3	-	3
Humanities	Elective	3	-	3
BIOL 318, 319	Human Anatomy and Physiology I & II (Lecture and Lab)	4	3	7
Literature	Elective	-	3	3
PHED 126	Theory and Practice of Gymnastics	-	1	1
PHED 200 or 201	Team Sports I or II	-	1	1
Unrestricted	Elective	1	-	1
PHED 211 or 212	Lifetime Sports I or II	-	1	1
Unrestricted	Elective	-	1	1
		<b>Totals</b>	<b>17</b>	<b>10</b>
<b>JUNIOR YEAR</b>				
EDUC 315	Data Driven Instructional Design	3	-	3
HLTH 346	School and Community Health Program	2	-	2
HLTH 347	First Aid/Emergency Medical Care	2	-	2
PHED 339	Measurement and Evaluation of Health and Physical Education	3	-	3
PHED 343	Elementary School Physical Education Methods and Activities	2	-	2
Unrestricted	Elective	3	-	3
HLTH 450	Instructional Strategies for Health Education	-	3	3
PHED 329	Motor Learning	-	2	2
PHED 335	Rhythmic Forms	-	1	1
PHED 338	Kinesiology	-	3	3
PHED 344	Middle and Secondary School Physical Education Methods and Activities	-	3	3
SPED 403	Classroom Management in Educ. Setting (FB)	-	3	3
		<b>Totals</b>	<b>15</b>	<b>15</b>
<b>SENIOR YEAR</b>				
EDUC 424	Critical Issues in Education	3	-	3
EDUC 427	Reading in the Subject Area	3	-	3
PHED 400	Adapted Physical Education	3	-	3
PHED 401	Org & Adm of Hlth, PE, Rec & Athletics	3	-	3
EDUC 401	Student Teaching Seminar	-	3	3
EDUC 402	Student Teaching	-	9	9
PHED 402	Student Teaching in Health and Physical Education	-	3	3
		<b>Totals</b>	<b>12</b>	<b>15</b>

**Substitutions must be approved by College Dean and Department Chair**

## SUMMARY OF GRADUATION REQUIREMENTS

<b>GENERAL EDUCATION ELECTIVES:</b>	<b>SUBJECT AREA</b>	<b>HOURS</b>
<i>Sciences</i>		
BIOL 116 (4) Biological Science /Lab	General Education Courses	40
BIOL 318 (4) Human Anatomy and Physiology I /Labs	Major Requirements	41
BIOL 319 (3) Human Anatomy and Physiology II	Electives	4
	Other Requirements	35
	<b>TOTAL DEGREE HOURS REQUIRED</b>	<b>120</b>
<i>Literature</i>		
ENGL 110 (3) Composition I		
ENGL 111 (3) Composition II		
<i>Global Studies</i> (3) Elective		
<i>History</i> (3) Elective		
<i>Health And Wellness</i>		
HPER 170 (2) Health and Wellness		
<i>Humanities</i> (3) Elective		
<i>Literature</i> (3) Elective		
<i>Mathematics</i>		
MATH 112 (3) Basic Math I		
MATH 113 (3) Basic Math II		
<i>Social Science</i>		
PSYC 212 (3) Human Growth and Development		
<i>Unrestricted Electives</i> (4)		

**DEPARTMENT OF HEALTH, PHYSICAL EDUCATION, RECREATION AND DANCE  
COURSES REQUIRED FOR DANCE MINOR (HPERD MAJORS)**

All courses for the Minor must be completed with a minimum grade of C in each course, and a minimum overall grade-point average of 2.0. A Minor Request Form must be completed with proper signatures and filed in the Registrar's Office. Successful completion of the Minor is indicated on the transcript.

Students in any school at Virginia State University may declare the Dance Minor and satisfy the requirements by auditioning and completing a minimum of 18 semester hours as indicated below.

**REQUIRED COURSES: 9 SEMESTER HOURS**

COURSE TITLE	COURSE ID	SEMESTER HOURS	LETTER GRADE	SEMESTER YEAR
Foundations of Dance	DANC 100	3		
Repertory (DANCE MINORS ONLY)	DANC203,204,205,206,207, 208, 209,210	3-6		

**SELECT A MINIMUM OF 9 SEMESTER HOURS FROM THE FOLLOWING COURSES**

COURSE TITLE	COURSE ID	SEMESTER HOURS	LETTER GRADE	SEMESTER YEAR
Ballet I and/or Ballet II	DANC 101 and/or DANC 102	3 -6		
Modern Dance I and/or Modern Dance II	DANC 201 and/or DANC 202	3 -6		
Dance Conditioning	DANC 250	3		
Jazz Dance I and/or Jazz Dance II	DANC 301 and/or DANC 302	3 -6		
Special Topics in Dance	DANC 305	3		
Rhythmic Training for Dancers	DANC 315	3		
Dance Composition and/or Advance Dance Composition	DANC 327 and/or DANC 328	3 -6		
Directed Research	DANC 355	3		
History of Dance and the Black Experience	DANC 378	3		
African/Caribbean Dance Forms I and/or African/Caribbean Dance Forms II	DANC 401 and/or DANC 402	3 -6		
Somatic Movement and Theatre	DANC 404	3		
Internship	DANC 472	3		
Total Hours Required: 18	Total Hours Completed:			

\*Students are strongly encouraged to consult with their advisor regarding enrolling in DANC 471 Internship Seminar to prepare for DANC 472 Internship

**DEPARTMENT OF HEALTH, PHYSICAL EDUCATION, RECREATION AND DANCE  
COURSES REQUIRED FOR HEALTH SCIENCE MINOR (HPERD MAJORS)**

All courses for the Minor must be completed with a minimum grade of C in each course, and a minimum overall grade-point average of 2.0. A Minor Request Form must be completed with proper signatures and filed in the Registrar's Office. Successful completion of the Minor is indicated on the transcript. Students in any school at Virginia State University may declare the Health Science Minor and satisfy the requirements by completing a minimum of 18 semester hours as indicated below.

**REQUIRED COURSES: 12 SEMESTER HOURS**

COURSE TITLE	COURSE ID	SEMESTER HOURS	LETTER GRADE	SEMESTER/YEAR
Foundations of Health Science	HLTH 210	3		
Cultural Diversity in Health Counseling	HLTH 343	3		
Scientific Readings in Health	HLTH 349	3		
Internship*	HLTH 472	3		

**SELECT A MINIMUM OF 6 SEMESTER HOURS FROM THE FOLLOWING COURSES**

COURSE TITLE	COURSE ID	SEMESTER HOURS	LETTER GRADE	SEMESTER/YEAR
Special Topics in Health	HLTH 311	3		
Drug Use and Drug Abuse Education	HLTH 330	3		
Health Practicum	HLTH 337	3		
Community Health	HLTH 340	3		
Contemporary Health Issues	HLTH 342	3		
School and Community Health Program	HLTH 346	2		
Directed Research	HLTH 348	3		
Human Reproduction and Sexual Development	HLTH 440	3		
Health Teaching Methods and Materials	HLTH 441	3		
Health and Wellness	HPER 170	2		
Epidemiology & Biostatistics	HLTH 443	3		
Independent Study On-line	HLTH 451	3		
Total Hours Required: 18	Total Hours Completed			

\*Students are strongly encouraged to consult with their advisor regarding enrolling in HLTH 471 Internship Seminar to prepare for HLTH 472 Internship.

**DEPARTMENT OF HEALTH, PHYSICAL EDUCATION, RECREATION AND DANCE  
COURSES REQUIRED FOR COMMUNITY HEALTH MINOR (HPERD MAJORS)**

All courses for the Minor must be completed with a minimum grade of C in each course, and a minimum overall grade-point average of 2.0. A Minor Request Form must be completed with proper signatures and filed in the Registrar's Office. Successful completion of the Minor is indicated on the transcript.

Students in any school at Virginia State University may declare the Community Health Minor and satisfy the requirements by completing a minimum of 18 semester hours as indicated below.

**REQUIRED COURSES: 12 SEMESTER HOURS**

COURSE TITLE	COURSE ID	SEMESTER HOURS	LETTER GRADE	SEMESTER/YEAR
Foundations of Health Science	HLTH 210	3		
Cultural Diversity in Health Counseling	HLTH 343	3		
Community Health	HLTH 340	3		
Internship*	HLTH 472	3		

**SELECT A MINIMUM OF 6 SEMESTER HOURS FROM THE FOLLOWING COURSES**

COURSE TITLE	COURSE ID	SEMESTER HOURS	LETTER GRADE	SEMESTER/YEAR
Special Topics in Health	HLTH 311	3		
Contemporary Health Issues	HLTH 342	3		
Health Practicum	HLTH 337	3		
Cultural Diversity in Health Counseling	HLTH 343	3		
Directed Research	HLTH 348	3		
Human Reproduction and Sexual Development	HLTH 440	3		
Total Hours Required: 18	Total Hours Completed			

\*Students are strongly encouraged to consult with their advisor regarding enrolling in HLTH 471 Internship Seminar to prepare for HLTH 472 Internship.

**DEPARTMENT OF HEALTH, PHYSICAL EDUCATION, RECREATION AND DANCE  
COURSES REQUIRED FOR PUBLIC HEALTH MINOR (HPERD MAJORS)**

All courses for the Minor must be completed with a minimum grade of C in each course, and a minimum overall grade-point average of 2.0. A Minor Request Form must be completed with proper signatures and filed in the Registrar's Office. Successful completion of the Minor is indicated on the transcript.

Students in any school at Virginia State University may declare the Health Science Minor and satisfy the requirements by completing a minimum of 21 semester hours as indicated below.

**REQUIRED COURSES: 15 SEMESTER HOURS**

COURSE TITLE	COURSE ID	SEMESTER HOURS	LETTER GRADE	SEMESTER/YEAR
Foundations of Health Science	HLTH 210	3		
Contemporary Health Issues	HLTH 342	3		
Community Health	HLTH 340	3		
Epidemiology & Biostatistics	HLTH 443	3		
Internship*	HLTH 472	3		

**SELECT A MINIMUM OF 6 SEMESTER HOURS FROM THE FOLLOWING COURSES**

COURSE TITLE	COURSE ID	SEMESTER HOURS	LETTER GRADE	SEMESTER/YEAR
Special Topics in Health	HLTH 311	3		
Drug Use & Drug Abuse Education	HLTH 330	3		
Health Practicum	HLTH 337	3		
Cultural Diversity in Health Counseling	HLTH 343	3		
Directed Research	HLTH 348	3		
Needs Assessment & Planning Health Promotion Programs	HLTH 447	3		
Total Hours Required: 18	Total Hours Completed			

\*Students are strongly encouraged to consult with their advisor regarding enrolling in HLTH 471 Internship Seminar to prepare for HLTH 472 Internship.

**DEPARTMENT OF HEALTH, PHYSICAL EDUCATION, RECREATION AND DANCE  
COURSES REQUIRED FOR RECREATION MINOR (HPERD MAJORS)**

All courses for the Minor must be completed with a minimum grade of C in each course, and a minimum overall grade-point average of 2.0. A Minor Request Form must be completed with proper signatures and filed in the Registrar's Office. Successful completion of the Minor is indicated on the transcript. Students in any school at Virginia State University may declare the Recreation Minor and satisfy the requirements by completing a minimum of 18 semester hours as indicated below.

**REQUIRED COURSES: 9 SEMESTER HOURS**

COURSE TITLE	COURSE ID	SEMESTER HOURS	LETTER GRADE	SEMESTER/YEAR
Foundations of Recreation and Leisure	RECR 100	3		
Tourism & Commercial Recreation	RECR 231	3		
Internship*	RECR 472	3		

**SELECT A MINIMUM OF 9 SEMESTER HOURS FROM THE FOLLOWING COURSES**

COURSE TITLE	COURSE ID	SEMESTER HOURS	LETTER GRADE	SEMESTER/YEAR
Introduction to Therapeutic Recreation	RECR 200	3		
Special Topics in Recreation	RECR 301	3		
Leisure Program Development	RECR 321	3		
Recreational Areas and Facilities	RECR 354	3		
Directed Research in Recreation	RECR 402	3		
Theory and Philosophy of Recreation	RECR 453	3		
Total Hours Required: 18	Total Hours Completed:			

\*Students are strongly encouraged to consult with their advisor regarding enrolling in RECR 471 Internship Seminar to prepare for RECR 472 Internship.

**DEPARTMENT OF HEALTH, PHYSICAL EDUCATION, RECREATION AND DANCE  
COURSES REQUIRED FOR SPORT MANAGEMENT MINOR (HPERD MAJORS)**

All courses for the Minor must be completed with a minimum grade of C in each course, and a minimum overall grade-point average of 2.0. A Minor Request Form must be completed with proper signatures and filed in the Registrar's Office. Successful completion of the Minor is indicated on the transcript. Students in any school at Virginia State University may declare the Sport Management Minor and satisfy the requirements by completing a minimum of 18 semester hours as indicated below.

**REQUIRED COURSES: 9 SEMESTER HOURS**

COURSE TITLE	COURSE ID	SEMESTER HOURS	LETTER GRADE	SEMESTER/YEAR
Foundations of Sport Management	PESM 200	3		
Sport Management	PESM 330	3		
Internship*	PESM 472	3		

**SELECT A MINIMUM OF 9 SEMESTER HOURS FROM THE FOLLOWING COURSES**

COURSE TITLE	COURSE ID	SEMESTER HOURS	LETTER GRADE	SEMESTER/YEAR
Special Topics	PESM 301	3		
Sport Facility and Event Management	PESM 350	3		
Directed Research	PESM 402	3		
Sport in American Society	PESM 405	3		
Sport Law	PESM 406	3		
Financial Aspects of Recreation and Sport Management	PESM 408	3		
Internship	PESM 472	3		
Total Hours Required: 18	Total Hours			

\* Students are strongly encouraged to consult with their advisor regarding enrolling in PESM 471 Internship Seminar to prepare for PESM 472 Internship.

## DEPARTMENT OF TEACHING AND LEARNING

**Chairperson:**

Patricia Aldridge  
Harris Hall, Room 120-B  
(804) 524-6730

**Professors:**

Vykuntapathi Thota, Sheila Saravanabhavan

**Associate Professors:**

Patricia Aldridge, Trina L. Spencer

**Assistant Professors:**

Barbara G. Bonds, Shandra Claiborne-Payton, Ayana Conway

### **Description of the Department**

The Department of Teaching and Learning offers a myriad of programs approved by the Virginia Board of Education, with recognition from The National Council for Accreditation of Teacher Education and Council for the Accreditation of Educator Preparation for aspiring teachers who are competent, caring, effective, and reflective practitioners. The undergraduate curriculum is designed for program endorsement. In addition, the department offers a non-endorsed graduate program in Media and Technology Education, which is designed to prepare students for careers in community colleges, military, industrial, managerial or other supervisory positions. Graduate study in Media and Technology leads to the Master of Science.

### **Mission Statement**

Creating a positive learning environment for all students and using evidence-based performance standards to develop reflective practitioners are central to the College of Education's mission. The College of Education promotes and maintains academic programs with research-based pedagogy, technology-based learning, and reflective practices that integrate service to the community, ever mindful of the students' diverse cultural backgrounds. The College of Education is the Unit that prepares quality graduates who become productive members of the Local Community, the State of Virginia, and the Nation.

### **Objectives of the Department**

The objectives of the department are centered on a common Conceptual Framework that is aligned with the mission of the University. The Unit's Conceptual Framework is continually evolving as it is influenced by current research on teacher education and feedback from advisory boards, evaluations from clinical faculty partners from the school districts, and other community stakeholders. The department's goal is to produce graduates from a professional accredited program who are competent, caring, effective and reflective practitioners. Graduates should be able to:

- Help all pre-kindergarten through twelfth grade (P-12) students learn;
- Teach to P-12 student standards set by specialized professional associations and the states;
- Explain instructional choices based on research-derived knowledge and best practice;
- Apply effective methods of teaching students who are at different developmental stages, have different learning styles, and come from diverse backgrounds;
- Reflect on practice and act on feedback; and
- Be able to integrate technology into instruction effectively.

### **Scholarships**

The Virginia Teaching Scholarship Loan Program Virginia Department of Education.

**DEPARTMENT OF TEACHING AND LEARNING**  
**Course Descriptions**

**CBED 200 INTRO TO COMMUNITY BASED EDUCATION (FE) - 3 Semester Hours**

This course presents the role, function and operation of community based programs in agency and alternative school settings. Students learn about instruction, technology and assessment for 1) children and youth, 2) adults and 3) the elderly. An emphasis is placed on curriculum, developmental needs, collaboration and developing resources for the educational needs of these populations.

**CBED 250 EMERGENT LITERACY (FE)- 3 Semester Hours**

This course provides a curriculum where communication skills including reading, writing, viewing and listening are incorporated for literacy training. Students learn the foundations of literacy, and develop an understanding about the nature of reading. They also explore the factors that influence learning for children, youth, adults and elderly populations. Literature resources are reviewed and reading needs assessments are explored.

**CBED 351 COMMUNITY BASED EDUCATION PROGRAMS FOR THE ELDERLY (FE)  
3 Semester Hours**

This course examines the principles used in planning and developing educational programs for the elderly. All types of Community Based Programs are explored for this population. Students determine how to meet the instructional needs of this population through programming and evaluation.

**CBED 352 COMMUNICATING WITH THE HEARING IMPAIRED - 3 Semester Hours**

This course provides information and strategies to develop effective communication skills with deaf and hard of hearing individuals in the community. Topics covered will include: information regarding hearing loss, Deaf culture and Community, education for the deaf and hard of hearing, and development of expressive and receptive sign language skills.

**CBED 447 PROGRAM PLANNING IN COMMUNITY BASED EDUCATION – 3 Semester Hours**

Effective use of the principles of program planning in community based educational environments is explored. A series of key topics include: needs assessment, collaboration, strategic planning, program implementation, collecting/analyzing data and reflection. Additionally, aspects of program coordination, program promotion in community settings, audience analysis and task analysis are discussed for an effective action plan.

**CBED 402 COMMUNITY BASED FIELD EXPERIENCE (FE) - 3 Semester Hours**

Opportunities are provided to apply competencies in educational programming in a community based or alternative educational program environment. Students utilize the components of educational leadership and curriculum practice to demonstrate and present methods of meeting the real life educational needs of their field based learner population.

**EDUC 201 INTRODUCTION TO TEACHING I - 2 Semester Hours**

This course is designed to provide a snapshot of teaching as a profession. It will focus on historical and contemporary topics relevant to an understanding of the knowledge, skills and dispositions required of classroom teachers. Pre-candidates will have the opportunity to reflect on professional practice in preK-12 classroom settings and in alternative educational program sites. This course will also provide the opportunity for pre-candidates to begin the development of a working portfolio. Pre-candidates will be required to complete a field experience requirement of 15 hours as a part of this course.

**EDUC 202 INTRODUCTION TO TEACHING II - 2 Semester Hours**

This course is a continuation of EDUC 201 Introduction to Teaching and is designed to provide a snapshot of teaching as a profession. The course will extend the focus on historical and contemporary topics relevant to an understanding of the knowledge, skills and dispositions required of classroom teachers. Pre-candidates will have the opportunity to research and reflect on professional practices in preK-12 classroom settings and in alternative educational program sites. This course will also provide the opportunity for pre-candidates to continue the development of a working portfolio. Pre-candidates will be required to complete a field experience requirement of 15 hours as a part of this course.

**EDUC 315 DATA DRIVEN INSTRUCTIONAL DESIGN - 3 Semester Hours**

This course is designed to address the skills that contribute to an understanding of the relationship among assessment, instruction and monitoring student progress. Assessments include student performance measures in grading practices and the ability to construct and interpret valid assessments using a variety of formats. In order to measure student attainment of essential skills in a standards-based environment, assessment data will be used to make decisions about how to improve instruction and student performance. Pre-candidates will be required to complete a field experience requirement of 15 hours as a part of this course.

**Prerequisites: EDUC 201 Introduction to Teaching I, EDUC 202 Introduction to Teaching II, Admission to the Teacher Education Program**

**EDUC 401 STUDENT TEACHING SEMINARS - 3 Semester Hours**

This course is aligned with EDUC 402 Student Teaching. Candidates reflect on the knowledge, skills, and dispositions implemented in the classroom experience. In this course, candidates prepare for the final performance assessment of competencies acquired in the Professional Education Program.

**Prerequisites: All coursework and required State assessments for the major.**

**EDUC 402 STUDENT TEACHING (FE) - 9 Semester Hours**

This course is the capstone experience for prospective teachers and emphasizes learning through application, analyses, synthesis, evaluation, and reflection. It provides the opportunity for student teachers to demonstrate acquired knowledge of the Standards of Learning, skills, and dispositions, in supervised classrooms. Emphasis will be placed on planning, implementing, and assessing instruction which meets the needs of students in these classrooms. Additional participation in appropriate school activities is required.

**Prerequisites: All coursework and required State assessments for the major.**

**EDUC 424 CRITICAL ISSUES IN EDUCATION - 2 Semester Hours**

This course will cover critical issues in educational reform that include applying multicultural curricula (such as, race ethnicity, gender, socioeconomic status, exceptionalities, language, and geographical locations of all students) and integrating school staff in acknowledging the importance of families and family language, as it relates to current educational issues. Candidates will be required to complete a Field experience requirement of 15 hours as a part of this course.

**Prerequisites: Admission to the Teacher Education Program or Admission to Community Based Education Program for CBED minors**

**EDUC 427 READING IN THE SUBJECT AREA - 3 Semester Hours**

This course provides pre-service teachers with the competencies necessary to teach reading in the subject areas. Emphasis is placed on the commonalities of reading skills as related to specific content. The application of knowledge gained, skills developed, techniques acquired, and materials used for teaching the content and specific disciplines are considered. Special attention is given to techniques and materials for student assessment and for meeting instructional needs.

**Prerequisites: Admission to the Teacher Education Program**

### **ELED 328 CURRICULUM AND INSTRUCTION - 3 Semester Hours**

This course is designed to address the skills that contribute to an understanding of the principles of learning; the application of skills in discipline-specific methodology; communication processes; selection and use of materials, including media computers; and evaluation of pupil performance. It will also address teaching methods appropriate for exceptional students, including second language learners, gifted and talented and those with disabling conditions. Teaching methods shall be tailored to promote student academic progress and effective preparation for the Standards of Learning assessments. Methods of improving communication between schools and families and ways of increasing family involvement in student learning shall be included. Demonstrated proficiency in the use of educational technology for instruction also shall be included. Candidates will be required to complete a field experience requirement of 15 hours as a part of this course.

**Prerequisites: Admission to the Teacher Education Program; EDUC 315 Data Driven Instructional Design**

### **ELED 429 LANGUAGE ACQUISITION AND READING I - 3 Semester Hours**

This course provides preparation for beginning reading instruction, including the body of research on emergent literacy, language acquisition, schema theory, and phonemic awareness. Emphasis will be placed on the nature of reading and the development of decoding and comprehension skills and strategies. Decoding skills and strategies will include language development, phonemic awareness, explicit phonics instruction, and other word recognition skills. Literature-based instruction and formal and informal diagnostic and assessment procedures will be included. Reading instruction for all children, including children with learning disabilities will be provided. Candidates will be required to complete a field experience requirement of 15 hours as a part of this course.

**Prerequisite: Admission to the Teacher Education Program**

### **ELED 430 LANGUAGE ACQUISITION AND READING II - 3 Semester Hours**

This course is designed to be a continuation of Language Acquisition and Reading I. This course enhances beginning reading skills and emphasizes comprehension skills in content. Special attention is given to the assessment of reading skills and how assessment results drive instruction. Implementation of literature-based instruction is further explored to enhance reading comprehension skills for students. Candidates will be required to complete a field experience requirement of 15 hours as a part of this course.

**Prerequisites: Admission to the Teacher Education Program**

### **IDST 100 ANALYTICAL READING AND REASONING PART I - 2 Semester Hours**

This course seeks to aid pre-candidates in the refinement and enhancement of learning strategies related to the Praxis I skills assessment. Reading, Writing and Mathematics instruction will focus on strategies to decode information from multiple disciplines. Reading activities include literature taken from Humanities, Social Sciences, Science and Technology. Writing activities are focused on responding to a variety of prompts from multiple disciplines and construction of appropriate essays. Mathematics activities will focus on problem solving and applying critical thinking skills. Students who are successful in passing Praxis I will not be required to take IDST 101.

### **IDST 101 ANALYTICAL READING AND REASONING PART II - 2 Semester Hours**

This course is a continuation of IDST 100. Pre-candidates will continue to focus on skill development related to passing Praxis I. Instruction will be divided by assessment components and will utilize small group and individualized instruction to provide a more focused experience to improve test taking and time management skills related to standardize testing.

### **IDST 200 DIGITAL MEDIA IN TEACHER EDUCATION - 3 Semester Hours**

A variety of instructional media; such as DVD Disc, Digital imagery, Computer Assisted Instruction and personal productivity tools are presented in this course. The emphasis will be on systematically enhancing the teaching-learning process with multi-media instruction and effective computer usage. The course will focus on the basic operation of the computer and the utilization of computers to aid instruction and productivity in the classroom. Candidates will be given the opportunity to reflect upon the most effective and efficient uses of various technologies for individual students, groups of students, and for their own personal use in the classroom. They will be expected to create certain types of software, presentations and materials to achieve instructional goals and objectives. The course is intended for juniors in the School of Education.

### **SPED 323 CHARACTERISTICS OF EXCEPTIONAL LEARNERS -3 semester hours**

This course is designed to provide students with in-depth knowledge of the theories, characteristics, etiology, and educational implications of students with exceptional learning needs. These include: related disabilities such as attention deficit disorders; specific age-span and developmental issues; cognitive functioning including intelligence, perception, neurobiology, linguistics, memory and thinking; levels of severity; multi-cultural influences; and medical aspects including medication, nutrition, genetics, and neurology. The course will describe deficits in academic, cognitive, socio-emotional behaviors; educational, technological, and medical interventions; placement options; curriculum design and current research on instructional approaches, and technology use.

**Prerequisite(s): Admission to Teacher Education Program.**

### **SPED 325 - SURVEY OF EXCEPTIONAL CHILDREN - 3 Semester Hours**

This course provides an introduction to the philosophical, historical, and legal foundations of special education. The course highlights the characteristics of children and youth with disabilities relative to age and severity levels; medically related etiological perspectives of various disabilities; special education laws, etc. Developmental differences manifested in cognitive, linguistic, physical, psychomotor, social, or emotional functioning are addressed. An understanding of ethical issues and the practice of accepted standards of professional behavior is also addressed. Current regulations governing alternatives placements/programs in schools are highlighted. Strategies to promote successful integration of students with disabilities with their non-disabled peers will be taught. The structure and organization of general education classrooms and other instructional settings representing the continuum of special education will be addressed. An overview of continuum of services, assessment procedures, curriculum planning, and instructional strategies are provided. Candidates will be required to complete a field experience requirement of 15 hours as a part of this course.

### **SPED 328 - READING & LANGUAGE DEVELOPMENT FOR EXCEPTIONAL LEARNERS 3 Semester Hours**

Through this course, the student will develop the skills required to 1) assess and develop the language and reading skills of exceptional learners from Pre K through adolescence, with emphasis given to reading, 2) distinguish between the influence of cultural differences and disability in the acquisition and development of skills, 3) develop IEPs based on appropriate use of the general education curriculum and the SOLs, 4) design, select, implement, and evaluate language and reading programs, and 5) use technology in language and reading instruction.

**Prerequisite(s): Admission to Teacher Education Program.**

### **SPED 402 - DIAGNOSIS OF EDUCATIONAL NEEDS - 3 Semester Hours**

This course is designed to provide an understanding and application of the foundation of assessment and evaluation related to best educational practice such as legal provisions, regulations, and guidelines regarding assessment of individuals with disabilities. The course will discuss the impact of cultural, linguistic, and other variables on assessment findings and placement decisions. Students will select, administer, score, and interpret various formal and informal individual and group instruments and summarize findings for eligibility, placement, and instructional decisions.

**Prerequisite(s): Admission to Teacher Education Program. STAT 210, Elementary Statistics**

**SPED 403 - CLASSROOM MANAGEMENT IN EDUCATIONAL SETTINGS – 3 Semester Hours**

This course is designed to address the skills that contribute to an understanding and application of classroom management techniques and individual interventions, including techniques that promote emotional well-being and teach and maintain behavior conduct and skills consistent with norms standards, and rules of the educational environment. This course shall address diverse approaches based upon behavioral, cognitive, affective, social, and ecological theory and practice in a classroom setting.

**Prerequisite(s): Admission to Teacher Education Program.**

**SPED 423 - CURRICULUM AND INSTRUCTION FOR EXCEPTIONAL LEARNERS****3 Semester Hours**

This course, offered in a field-based setting, conveys knowledge of a wide range of assessment procedures for students with exceptional learning needs to assist in instruction and life-planning. These include: use of assessment procedures to identify individual instructional needs in areas including reading, receptive and expressive language, written language and mathematics; ability to interpret educational assessment results to parents, students and other professionals. This course makes use of assessment, evaluation, and other information to develop and implement individualized educational programs (IEP) and group instruction for individuals with exceptional learning needs within the continuum of services. These services include: pragmatic language and social skills; providing explicit instruction of reading and spelling in a systematic and cumulative manner based upon understanding the structure and development of the English language and its components; use of multi-sensory approaches, cognitive learning strategies, study skills, accommodations for diverse learning styles, and technology; and designing alternative ways to teach content, including adaptations and modifications of curricula, and the selection of specialized instructional materials appropriate to the needs of the student with exceptional learning needs

**Prerequisite(s): Admission to Teacher Education Program.**

**SPED 425 - TRANSITIONAL EDUCATION FOR STUDENTS WITH DISABILITIES - 2 Semester Hours**

This course is designed to prepare candidates to work with families to promote successful student transitions throughout the educational experience, including post-secondary training, employment, and independent living. This course addresses an understanding of long-term planning, career development, life skills, community experiences and resources, self-advocacy and self-determination, guardianship, and legal considerations.

**Prerequisite(s): Admission to Teacher Education Program.**

**SPED 442- COMMUNICATING AND COLLABORATING WITH EDUCATORS AND PARENTS****3 Semester Hours**

This course will prepare students to acquire knowledge and skills in authentic consultation, collaboration and case management. The course will provide opportunities to discuss approaches, demonstrate methods, and utilize activities that aim at involving parents in educational and multidisciplinary conferences, working with paraprofessionals, community agencies, service providers, etc. Team approaches and collaborative work environments will be utilized.

**Prerequisite(s): Admission to Teacher Education Program.**

**Department of Teaching and Learning  
Bachelor of Science Interdisciplinary Studies  
Minor in Elementary Education  
121 Credit Hours**

Course Number		Semester Hours		
		1st Sem	2nd Sem	Total Hours
<b>FRESHMAN YEAR</b>				
IDST 100	Analytical Reading, Writing and Reasoning I	(2)	-	(2)
IDST 101	Analytical Reading, Writing and Reasoning II	-	(2)	(2)
PHIL 140	Philosophy	-	3	3
ENGL 110	Composition I	3	-	3
ENGL 111	Composition II	-	3	3
MATH 130	Numbers and Operation	3	-	3
MATH 131	Algebra and Functions	-	3	3
BIOL 116	Biological Science and Lab	4	-	4
GEES 181	Earth Science and Lab	-	4	4
HIST 114 or 115	World History I or World History II	3	-	3
HPER 170	Health and Wellness	2	-	2
ECON 100	Basic Economics	-	3	3
	<b>Total Hours</b>	<b>15</b>	<b>16</b>	<b>31</b>
<b>SOPHOMORE YEAR</b>				
EDUC 201	Introduction to Teaching I	2	-	2
EDUC 202	Introduction to Teaching II	-	2	2
HPER	Elective	-	1	1
HIST 122 or 123	U.S. History I or U.S. History II	3	-	3
GEOG 210	World Geography	-	3	3
ENGL 201 or 202	Introduction to Literature or African Amer Lit.	3	-	3
IDST 200	Digital Media in Teacher Education	-	3	3
PHYS 101	Physical Science and Lab	4	-	4
Free Elective	Elective	-	3	3
PSYC 212	Human Growth and Development	3	-	3
STAT 210	Elementary Statistics	-	3	3
SPEE 214	Public Speaking	3	-	3
	<b>Total Hours</b>	<b>18</b>	<b>15</b>	<b>33</b>
<b>JUNIOR YEAR</b>				
ENGL 214 or 215	World Literature I or II	3	-	3
EDUC 315	Data Driven Instructional Design	-	3	3
ELED 328	Curriculum and Instruction	3	-	3
ELED 429	Language Acquisition and Reading I	-	3	3
GEEN 310	Advanced Communication Skills	3	-	3
PSYC 314	Test and Measurements	-	3	3
POLI 150	U.S. Government	-	3	3
BIOL 427	Science Process Skills & Lab	4	-	4
MATH 230	Geometry & Measurements	3	-	3
GEMU 480 or ARTS 199	Blacks in American Music or Art Appreciation	-	3	3
	<b>Total Hours</b>	<b>16</b>	<b>15</b>	<b>31</b>
<b>SENIOR YEAR</b>				
EDUC 424	Critical Issues in Education	2	-	2
HIST 431	History of Virginia	3	-	3
SPED 403	Classroom management in Educational Settings (FE)	3	-	3
ELED 430	Language Acquisition and Reading II	3	-	3
SPED 325	Survey of Exceptional Children	3	-	3
EDUC 401	Student Teaching Seminar	3	-	3
EDUC 402	Student Teaching	9	-	9
	<b>Total Hours</b>	<b>26</b>		<b>26</b>

*Substitutions must be approved by College Dean and Department Chair*

**DEPARTMENT OF TEACHING AND LEARNING**  
**Bachelor of Science Interdisciplinary Studies**  
**Minor in Elementary Education**

**Elementary Education**  
**Summary Sheet**

**General Education Requirements for BS Degree**

<b>Course Number</b>	<b>Course Title</b>	<b>Hours</b>
ENGL 110	Composition I	3
ENGL 111	Composition II	3
GEES 181	Earth Science and Lab	4
HPER 170	Health and Wellness	2
ECON 100	Basic Economics	3
HIST 114/115	World History I or World History II	3
HIST 122/123	U.S. History I or U.S. History II	3
PHIL 140	Philosophy	3
MATH 130	Numbers and Operation	3
MATH 131	Algebra and Functions	3
ENGL 201 or 202	Introduction to Literature or African American Literature	3
<b>Total Hours</b>		<b>33</b>

**Major Requirements**

<b>Course Number</b>	<b>Course Title</b>	<b>Hours</b>
BIOL 116	Biological Science and Lab	4
BIOL 427	Science Process Skills & Lab	4
STAT 210	Elementary Statistics	3
MATH 230	Geometry & Measurements	3
ENGL 214 or 215	World Literature I or World Literature II	3
GEEN 310*	Advanced Communication Skills	3
GEOG 210	World Geography	3
HIST 431	History of Virginia	3
POLI 150	U.S. Government	3
PHYS 101	Physical Science and Lab	4
IDST 200	Digital Media in Teacher Education	3
GEMU 480 or Arts 199	Blacks in American Music or Art Appreciation	3
PSYC 212	Human Growth and Development	3
PSYC 314	Test and Measurement	3
SPEE 214	Introduction to Public Speaking	3
SPED 325	Survey of Exceptional Children	3
<b>Total Hours</b>		<b>51</b>

\*These courses also meet General Education requirements.

**Minor Requirements: Professional Studies \*These courses also meet General Education requirements.**

Course Number	Course Title	Hours
EDUC 201	Introduction to Teaching I	2
EDUC 202	Introduction to Teaching II	2
EDUC 315	Data Driven Instructional Design	3
ELED 328	Curriculum and Instruction	3
ELED 429	Language Acquisition and Reading I	3
EDUC 424	Critical Issues in Education	2
ELED 430	Language Acquisition and Reading II	3
EDUC 401	Student Teaching Seminar	3
<b>Total Hours</b>		<b>21</b>

**Field Experiences (FE)**

Course Number	Course Title	Hours
EDUC 402	Student Teaching (FE)	9
SPED 403	Classroom Management in Educational Settings (FE)	3
<b>Total Hours</b>		<b>12</b>

**Restricted Electives**

Course Number	Course Title	Hours
HPER	Electives	1
Free Elective	Electives	3
<b>Total Hours</b>		<b>4</b>

**Electives**

Course Number	Course Title	Hours
IDST 100**	Analytical Reading, Writing and Reasoning I	2
IDST 101**	Analytical Reading, Writing and Reasoning II	2
<b>Total Hours</b>		<b>4</b>

**\*\*Courses do not count toward graduation requirements. Courses are only taken when Core Academic Skills for Educators Math 5732 (score 150) are not met.**

**Other Requirements**

The following assessments must be met:  
 Passing scores on Core Academic Skills  
 for Educators Math 5732  
 Passing scores on PRAXIS II  
 Passing scores on VCLA  
 Passing scores on RVE

**DEPARTMENT OF TEACHING AND LEARNING**  
**Bachelor of Science Interdisciplinary Studies**  
**Minor in Special Education**  
**120 Credit Hours**

		<b>Semester Hours</b>		
		<b>1<sup>st</sup></b>	<b>2<sup>nd</sup></b>	<b>Total</b>
		<b>Sem</b>	<b>Sem</b>	<b>Hours</b>
<b>FRESHMAN YEAR</b>				
<b>Course Number</b>	<b>Course Title</b>			
IDST 100*	Analytical Reading, Writing and Reasoning I	(2)	-	(2)
IDST 101*	Analytical Reading, Writing and Reasoning II	-	(2)	(2)
ENGL 110	Composition I	3	-	3
ENGL 111	Composition II	-	3	3
MATH 130	Numbers and Operation	3	-	3
MATH 131	Algebra and Functions	-	3	3
BIOL 116	Biological Science and Lab	4	-	4
GEES 181	Earth Science and Lab	-	4	4
HIST 114 or 115	World History I or II	3	-	3
HPER 170	Health and Wellness	-	2	2
ECON 100	Basic Economics	3	-	3
HPER	Elective	1	-	1
	<b>Totals</b>	<b>17</b>	<b>12</b>	<b>29</b>
<b>SOPHOMORE YEAR</b>				
EDUC 201	Introduction to Teaching I	2	-	2
SPED 325	Survey of Exceptional Children (FE)	3	-	3
HIST 122 or 123	U.S. History I or II	3	-	3
GEOG 210	World Geography	-	3	3
Lang Elec (100 or above) or CBED 352	Communication Skills for the Hearing Impaired	-	3	3
PHYS 101	Physical Science and Lab	-	4	4
EDST 200	Digital Media in Teacher Education	3	-	3
ENGL 214 or 215	World Literature I or II	-	3	3
PHIL140	Philosophy	3	-	3
PSYC 212	Human Growth and Development	3	-	3
STAT210	Elementary Statistics	3	-	3
	<b>Totals</b>	<b>20</b>	<b>13</b>	<b>33</b>
<b>JUNIOR YEAR</b>				
EDUC 315	Data Driven Instructional Design	3	-	3
ELED 429	Language Acquisition and Reading I	3	-	3
SPED 328	Reading and Lang Dev for Except Learners	3	-	3
SPED 323	Characteristics of Exceptional Children (FE)	-	3	3
SPED 403	Classroom Management in Educational Settings (FE)	-	3	3
SPED 425	Transitional Education for Exceptional Learners	2	-	2
SPED 402	Diagnosis of Educational Needs	-	3	3
ENGL 201 or 202	Introduction to Literature or African American Lit	3	-	3
GEMU 480 or ARTS 199	Blacks in American Music or Art Appreciation	-	3	3
GEEN 310	Advanced Communication Skills	-	3	3
MATH 230	Geometry & Measurements	3	-	3
	<b>Totals</b>	<b>17</b>	<b>15</b>	<b>32</b>
<b>SENIOR YEAR</b>				
EDUC 424	Critical Issues in Education	2	-	2
HIST 431	History of Virginia	3	-	3
POLI 150	U.S. Government	3	-	3
SPED 442	Communicating and Collaborating (FE)	3	-	3
SPED 423	Curriculum and Instruction for Exceptional Learners (FE)	3	-	3
EDUC 401	Student Teaching Seminar	-	3	3
EDUC 402	Student Teaching (FE)	-	9	9
	<b>Totals</b>	<b>14</b>	<b>12</b>	<b>26</b>

**Substitutions must be approved by College Dean and Department Chair**

## SUMMARY OF GRADUATION REQUIREMENTS

### General Education Requirements for BS Degree

Course Number	Course Title	Hours
ENGL 110	Composition I	3
ENGL 111	Composition II	3
GEES 181	Earth Science and Lab	4
HPER 170	Health and Wellness	2
ECON 100	Basic Economics	3
HIST 114 or 115	World History I or II	3
HIST 122 or 123	U. S. History I or II	3
PHIL140	Philosophy	3
MATH 130*	Numbers and Operation	3
MATH 131*	Algebra and Functions	3
ENGL 201 or 202	Introduction to Literature or African American Lit	3
	<b>Total Hours</b>	<b>33</b>

### Major Requirements (42 Hours)

<b>Interdisciplinary Studies (Academic Core Courses)</b>		
Course Number	Course Title	Hours
BIOL 116*	Biological Science and Lab	4
STAT 210	Elementary Statistics	3
MATH 230	Geometry & Measurements	3
ENGL 214 or 215	World Literature I or II	3
Lang Elec (100 or above) or CBED 352	Communication Skills for the Hearing Impaired	3
GEEN 310*	Advanced Communication Skills	3
GEOG 210	World Geography	3
HIST 431	History of Virginia	3
POLI 150	U.S. Government	3
PHYS 101	Physical Science and Lab	4
GEMU 480 or ARTS 199	Blacks in American Music or Art Appreciation	3
PSYC 212	Human Growth and Development	3
IDST 200	Digital Media in Teacher Education	3
HPER	P.E. Elective	1
	<b>Total Hours</b>	<b>42</b>

**\*These courses also meet General Education requirements.**

**Minor Requirements (Professional Studies)**

<b>Course Number</b>	<b>Course Title</b>	<b>Hours</b>
EDUC 201	Introduction to Teaching I	2
SPED 325	Survey of Exceptional Children	3
EDUC 315	Data Driven Instructional Design	3
EDUC 424	Critical Issues in Education	2
ELED 429	Language Acquisition and Reading I	3
SPED 328	Reading and Language Development for Exceptional Learners	3
SPED 425	Transitional Education for Exceptional Learners	2
SPED 402	Diagnosis of Educational Needs	3
EDUC 401	Student Teaching Seminar	3
	<b>Total Hours</b>	<b>24</b>

**Field Experiences (FE) (21 Hours)**

<b>Course Number</b>	<b>Course Title</b>	<b>Hours</b>
SPED 323	Characteristics of Exceptional Learners FE	3
SPED 403	Classroom Management in Educational Settings FE	3
SPED 423	Curriculum and Instruction for Exceptional Learners (FE)	3
SPED 442	Communicating and Collaborating w/Educators and Parents (FE)	3
EDUC 402	Student Teaching (FE)	9
	<b>Total Hours</b>	<b>21</b>

**Electives**

<b>Course Number</b>	<b>Course Title</b>	<b>Hours</b>
IDST 100**	Analytical Reading, Writing and Reasoning I	2
IDST 101**	Analytical Reading, Writing and Reasoning II	2
	<b>Total Hours</b>	<b>4</b>

\*\*Courses do not count toward graduation requirements. Courses are only taken when scores for Core Academic Skills for Educators Math 5732 (150) and VCLA (470) are not met.

**Other Requirements**

The following assessments must be met:

- Passing scores on Core Academic Skills for Educators - Math 5732
- Passing scores on VCLA
- Passing scores on RVE
- Restricted Electives (3 Hours)

**DEPARTMENT OF TEACHING AND LEARNING**  
**Bachelor of Science Interdisciplinary Studies**  
**Minor in Community Based Education**  
**120 Credit Hours**

**Semester Hours**

		<b>1st Sem</b>	<b>2nd Sem</b>	<b>Total Hours</b>
<b>FRESHMAN YEAR</b>				
IDST 100*	Analytical Reading, Writing and Reasoning I	(2)	-	(2)
IDST 101*	Analytical Reading, Writing and Reasoning II	-	(2)	(2)
ENGL 110	Composition I	3	-	3
ENGL 111	Composition II	-	3	3
MATH 130	Numbers and Operation or (Math Elective)	3	-	3
MATH 131	Algebra and Functions	-	3	3
BIOL 116	Biological Science and Lab	4	-	4
GEES 181	Earth Science and Lab	-	4	4
	Elective**	3	-	3
HIST 114 or 115	World History I or World History II	3	-	3
HPER 170	Health and Wellness	2	-	2
ECON 100	Basic Economics	-	3	3
<b>Totals</b>		<b>18</b>	<b>13</b>	<b>31</b>
<b>SOPHOMORE YEAR</b>				
EDUC 201	Introduction to Teaching I (Restricted Elective)	2	-	2
CBED 200	Introduction to Community Based Education	-	3	3
HPER	P.E. Elective	1	-	1
HIST 122 or 123	U.S. History I or U.S. History II	3	-	3
GEOG 210	World Geography	-	3	3
ENGL 201 or 202	Introduction to Literature or African Amer Lit.	3	-	3
IDST 200	Digital Media in Teacher Education	-	3	3
PHYS 101	Physical Science and Lab	4	-	4
PHIL 140	Philosophy	-	3	3
PSYC 212	Human Growth and Development	3	-	3
STAT 210	Elementary Statistics	-	3	3
<b>Totals</b>		<b>16</b>	<b>15</b>	<b>31</b>
<b>JUNIOR YEAR</b>				
ENGL 214 or 215	World Literature I or II	3	-	3
CBED 250	Emergent Literacy	-	3	3
CBED 351	Community Based Education Programs for the Elderly	3	-	3
CBED 352	Communication Skills for the Hearing Impaired	-	3	3
GEEN 310	Advanced Communication Skills	3	-	3
PSYC 314	Test and Measurements	-	3	3
POLI 150	U.S. Government	3	-	3
	Unrestricted Elective	-	3	3
MATH 230	Geometry & Measurements	3	-	3
SPEE 214	Public Speaking	-	3	3
<b>Totals</b>		<b>15</b>	<b>15</b>	<b>30</b>
<b>SENIOR YEAR</b>				
HLTH 346	School and Community Health	2	-	2
EDUC 424	Critical Issues	2	-	2
HIST 431	History of Virginia	3	-	3
CBED 447	Program Planning in Community Based Education	3	-	3
CBED 402	Community Based Field Experience	-	3	3
SPED 325	Survey of Exceptional Children (Restricted Elective)	-	3	3
GEMU 480	Music or ARTS 199	-	3	3
Unrestricted	Elective	3	-	3
Restricted	Elective	2	-	2
Unrestricted	Science Elective	4	-	4
<b>Totals</b>		<b>19</b>	<b>9</b>	<b>28</b>

**Substitutions must be approved by the College Dean and Department Chair**

## SUMMARY OF GRADUATION REQUIREMENTS

### General Education Requirements for BS Degree

Course Number	Course Title	Hours
ENGL 110	Composition I	3
ENGL 111	Composition II	3
GEES 181*	Earth Science and Lab	4
HPER 170	Health and Wellness	2
ECON 100	Basic Economics	3
HIST 114/115	World History I or World History II	3
HIST 122/123	U.S. History I or U.S. History II	3
PHIL 140	Philosophy	3
MATH 130*	Numbers and Operation	3
MATH 131*	Algebra and Functions	3
ENGL 201 or 202*	Introduction to Literature or African American Literature	3
<b>Total Hours</b>		<b>33</b>

\*Courses also meet Major Requirements

### Major Requirements (51 Hours)

Course Number	Course Title	Hours
IDST 200	Digital Media in Teacher Education	3
EDUC 201	Introduction to Teaching I	2
BIOL116*	Biological Science and Lab	4
STAT 210	Elementary Statistics	3
MATH 230	Geometry & Measurements	3
ENGL 214 or 215	World Literature I or World Literature II	3
GEEN 310*	Advanced Communication Skills	3
GEOG 210	World Geography	3
HIST 431	History of Virginia	3
POLI 150	U.S. Government	3
PHYS 101	Physical Science and Lab	4
GEMU 480 or ARTS 199	Blacks in American Music and Art Appreciation	3
PSYC 212	Human Growth and Development	3
PSYC 314	Test and Measurements	3
SPEE 214	Introduction to Public Speaking	3
SPED 325	Survey of Exceptional Children	3
HLTH 346	School and Community Health	2
<b>Total Hours</b>		<b>51</b>

**Minor Requirements (15 Hours)**

<b>Course Number</b>	<b>Course Title</b>	<b>Hours</b>
CBED 200	Introduction to Community Based Education	3
CBED 250	Emergent Literacy	3
CBED 351	Community Based Education Programs for the Elderly	3
CBED 352	Communication Skills for the Hearing Impaired	3
CBED 447	Program Planning in Community Based Education	3
<b>Total Hours</b>		<b>15</b>

**Field Experiences (FE) (5 Hours)**

<b>Course Number</b>	<b>Course Title</b>	<b>Hours</b>
CBED 402	Community Based Field Experience	3
EDUC 424	Critical Issues in Education	2
<b>Total Hours</b>		<b>5</b>

**Electives (14 Hours)**

<b>Course Number</b>	<b>Course Title</b>	<b>Hours</b>
Free Elective	Electives	3
Free Elective	Electives	3
Free Elective	PE Elective	1
Free Elective	Electives	3
Free Elective	Science Elective	4
<b>Total Hours</b>		<b>14</b>

**Restricted Electives**

<b>Course Number</b>	<b>Course Title</b>	<b>Hours</b>
IDST 100**	Analytical Reading, Writing and Reasoning I	(2)
IDST 101**	Analytical Reading, Writing and Reasoning II	(2)
EDUC 202	Introduction to Teaching II	2
<b>Total Hours</b>		<b>6</b>

\*\* Courses do not count toward graduation requirements.

**DEPARTMENT OF TEACHING AND LEARNING**  
**Secondary Education Minor**

All Candidates who are completing an Endorsement in Secondary Education must complete the following minor courses from the Department of Teaching and Learning. The following curriculums for the secondary majors are located in the catalog under their respective School/College: Agriculture 6-12, Biology 6-12, Chemistry 6-12, English 6-12, Family and Consumer Sciences 6-12, Health and Physical Education Pre K-12, History and Social Sciences 6-12, Mathematics 6-12, Music Education - Choral PreK-12, Music Education - Instrumental PreK-12. Health and Physical Education majors do not have the 18 hour restriction on Professional Studies Courses.

**Minor Requirements (Professional Studies)**

<b>Course Number</b>	<b>Course Title</b>	<b>Hours</b>
EDUC 201	Introduction to Teaching I	2
EDUC 202	Introduction to Teaching II	2
EDUC 315	Data Driven Instructional Design	3
ELED 328	Curriculum and Instruction	3
EDUC 424	Critical Issues in Education	2
EDUC 401	Student Teaching Seminar	3
<b>Total Hours</b>		<b>15</b>

**Restricted Electives (15 Hours)**

<b>Course Number</b>	<b>Course Title</b>	<b>Hours</b>
IDST 100**	Analytical Reading, Writing and Reasoning I	2
IDST 101**	Analytical Reading, Writing and Reasoning II	2
Content Area	Content Area Student Teaching	3
SPED 403	Classroom Management	3
EDUC 402	Student Teaching	9
<b>Total Hours</b>		<b>15</b>

\*\*Courses do not count toward graduation requirements. Courses are only taken when Core Academic Skills for Educators Math 5732 score is less than 150 or VCLA scores are less than 470.

**Other Requirements**

The following assessments must be met:

- Passing scores on Core Academic Skills for Educators - Math 5732
- Passing scores on PRAXIS II
- Passing scores on VCLA

# College of Engineering and Technology

**Dean (Interim):**

Dawit Haile  
Engineering and Building, Room 315  
(804) 524-1141

The College of Engineering and Technology is committed to providing a dynamic and stimulating learning environment where a combination of classroom instruction and laboratory work prepares students for the global nature of the engineering and mathematics professions. The College houses undergraduate programs which educate students to become professionals who are able to adapt to societal change, to communicate effectively and to be highly trainable. Whether students major in Engineering, Computer Science, Technology, Mathematics, or Economics, they benefit from a curriculum that features in-depth major courses and substantial training in mathematics, social sciences and the humanities.

**The College of Engineering and Technology is comprised of the following departments:**

- Engineering and Computer Science
- Mathematics and Economics
- Technology

**Mission of the College**

The mission of the College of Engineering and Technology is to provide quality undergraduate and graduate education in engineering, engineering technology, mathematics, computer science, economics and industrial technology to produce graduates who are well prepared to practice in their field of study and/or to pursue advanced education.

**Objectives of the College**

The primary objectives of the college are:

- To maintain and continually strive to improve the quality of instruction in all academic areas.
- To prepare students to enter professional careers in the public and private sectors or to continue their education beyond the baccalaureate level in professional or graduate school.

## DEPARTMENT OF ENGINEERING AND COMPUTER SCIENCE

- Chairperson:** Pamela Leigh-Mack  
Engineering Building, Room 301  
(804) 524-1136
- Professors:** Ali Ansari, Singli Garcia-Otero, Nasser Ghariban, Pamela Leigh-Mack
- Associate Professors:** Shahzad Akbar, Jahangir Ansari, Hui Chen, Amir Javaheri, Jinmyun Jo, David Walter, Ju Wang
- Assistant Professors:** Wei-Bang Chen, Lopika Ghosh, Joon Suk Lee, Ahmed Mohammed, Chandan Samantaray, Diptirani Samantaray, Zhenhua Wu

The Department of Engineering and Computer Science offers four degrees: B.S. in Computer Engineering; a B.S. in Manufacturing Engineering; a B.S. in Computer Science; and M.S. in Computer Science. A concentration in Information Security is available within the computer science program. In addition, students can obtain a minor in computer science.

### Computer Engineering

Computer engineers design, computer based real-time data acquisition systems. They analyze and design computer hardware and software, and their tradeoffs. In addition, computer engineers are used in an ever-growing number of positions involved with the applications of computers and digital technology. Our program prepares students by providing a strong background in mathematics, statistics, sciences and engineering, with emphasis in computer hardware, software, interfacing, and design. Our program also grants elective flexibility for specialization in all aspects of computing and related areas. In addition, our students participate in undergraduate research, summer internships, professional societies and leadership skills development.

### Manufacturing Engineering

Manufacturing engineers plan, direct, and coordinate new products from the design stage to the production and delivery to customers. Our program prepares students with a strong technical foundation in conventional manufacturing engineering and provides them with the tools to face the challenges of globalized marketplaces, and ecologically conscious and interdisciplinary business environments. Our curriculum is developed to provide a balanced knowledge of product design; materials; manufacturing processes; manufacturing systems; manufacturing automation and robotics; quality assurance; and project management. Students experience hands-on activities in our advanced laboratories. Besides laboratory experiences, we offer our students a rich educational experience in interdisciplinary research through senior projects, manufacturing design implementation, extracurricular activities, and interaction with our exceptional faculty at the forefront of their fields.

### Computer Science Program

Computer scientists are using their programming skills and software tools to protect and keep data secure from cyber threats. Our program gives hands-on experience in the application of fundamental ideas and techniques of computer science. Topics of study include algorithm design and analysis; software design; database systems; computer organization and architecture; programming languages; and operating systems.

### Mission of the Department

The mission of the Department of Engineering and Computer Science is to provide excellent education and research opportunities to a diverse student body in order to prepare them for productive careers at industrial, governmental, and academic settings in the rapidly evolving fields of science and engineering.

## **Objectives of the Department**

1. Provide opportunities for students to develop the ability to contribute analytical, laboratory, and computer skills to develop new engineering and computer science analysis and design tools.
2. Provide opportunities for students to develop the ability to analyze and design systems with solid perspectives on the societal impact of these designs.
3. Prepare students to work effectively as team members and leaders within the global context for engineering and computer science.
4. Produce students who use effective written and oral communications skills.
5. Produce students who use high standards of personal and professional integrity and ethical responsibility in their roles as engineers and computer scientists.
6. Prepare students to successfully complete graduate programs in engineering, computer science, or related subjects.

## **Student Organizations**

Association of Computing Machinery (ACM)  
Institute of Electrical and Electronics Engineers (IEEE)  
Society of Manufacturing Engineers (SME)  
National Society of Black Engineers (NSBE)  
Society of Women Engineers (SWE)

## **COMPUTER ENGINEERING**

### **Course Descriptions**

#### **CPEG 207 INTRODUCTION TO DIGITAL SYSTEMS - 3 semester hours**

Boolean algebra and logic design of combinational and sequential circuits. Gate and flip-flop characteristics for TTL technology adders, multipliers, register transfer language, general-purpose processor design, basic computer organization, machine level programming, relationships between software and hardware.

**Prerequisite:** ENGR 102 Introduction to Engineering II.

**Co-requisite:** CPEG 227 Digital Systems Laboratory

#### **CPEG 208 MICROPROCESSORS - 3 semester hours**

Principles of operation of 80x86 family of microprocessors, including assembly language programming, internal architecture of 80x86 processors, timing analysis, and interfacing techniques. Special emphasis will be placed on hardware-software interactions, design of memory systems for microprocessors, and on utilization of programmable peripheral devices.

**Prerequisite:** CPEG 207 Introduction to Digital Systems. **Co-requisites:** CPEG 228 Microprocessors Laboratory

#### **CPEG 227 DIGITAL SYSTEMS LABORATORY - 1 semester hour**

Design and implement digital systems. Build combinational and sequential logic circuits. Measure/troubleshoot the logic circuits using general electronic test equipment. Reinforce the concepts learned in CPEG 207 Introduction to Digital Systems.

**Co-requisite:** CPEG 207 Digital Systems

#### **CPEG 228 MICROPROCESSORS LABORATORY - 1 semester hour**

Microprocessor-based laboratory utilizing computer programming language. Emphasis is on writing and running programs on the 8088/86 based microprocessor systems. Lab includes both software and hardware.

**Corequisite:** CPEG 208 Microprocessors

#### **CPEG 303 INTRODUCTION TO ELECTRONICS - 3 semester hours**

Basic semiconductor physics, theory of p-n junctions; diodes, field effect transistors, and bipolar transistors; modeling of diode and transistor devices; analysis and design of diode switching and rectifier circuits; basic transistor switching circuits and single stage amplifiers; multistage transistor amplifier biasing; op amps, and output stages; electronic simulation using PSPICE.

**Prerequisite:** ENGR 201 Circuit Analysis and PHYS 113 General Physics II

**Co-requisite:** CPEG 323 Introduction to Electronics Laboratory.

**Co-requisite:** CHEM 151 General Chemistry I

#### **CPEG 305 OPERATING SYSTEMS - 3 semester hours**

Functions and components of an operating system, including process synchronization, job scheduling, memory management, file systems protection, and deadlocks. Related system software, such as loaders, linkers, assemblers, and windowing systems.

**Prerequisite:** ENGR 203 Introduction to Programming

#### **CPEG 307 LINEAR SYSTEM ANALYSIS - 3 semester hours**

Transient response of linear time-invariant, continuous-time and discrete-time dynamic systems by various methods including Laplace transform, and z-transform; properties of sampling; input-output characteristics; frequency response analysis.

**Prerequisites:** ENGR 201 Circuit Analysis

**Co-requisite:** MATH 350 Differential Equations

**CPEG 308 ANALOG COMMUNICATION - 3 semester hours**

Filter design, noise, signal-to-noise ratio, amplitude modulation, frequency modulation.

**Prerequisites: CPEG 303 Introduction to Electronics and PHYS 113 General Physics II**

**CPEG 309 ADVANCED DIGITAL SYSTEM DESIGN - 3 semester hours**

Design of digital systems using programmable logic devices and high-level design techniques. Emphasizes the application of state-of-the-art hardware devices as well as design and simulation tools.

**Prerequisite: CPEG 207 Introduction to Digital Systems**

**Co-requisite: CPEG 329 Advanced Digital System Design Laboratory**

**CPEG 323 INTRODUCTION TO ELECTRONICS LABORATORY - 1 semester hour**

Prototype bread-board electronic circuits using diodes, bipolar junction transistors, MOSFETS with DC biasing configurations and with superimposition of AC signals. Operational and differential amplifier and active filter circuits.

**Co-requisite: CPEG 303 Introduction to Electronics**

**CPEG 329 ADVANCED DIGITAL SYSTEM DESIGN LABORATORY - 1 semester hour**

System design using programmable logic devices and high-level design techniques. Application of state-of-the-art hardware devices as well as design and simulation tools.

**Co-requisite: CPEG 309 Advanced Digital System Design**

**CPEG 403 ENGINEERING COMPUTATIONS - 3 semester hours**

Linear algebra, complex analysis and phasor calculus; algorithms for roots of equations. Programming in C and use of the application language, such as, MATLAB.

**Prerequisite: Senior standing**

**CPEG 404 REAL-TIME DATA ACQUISITION AND CONTROL SYSTEM - 3 semester hours**

Advanced course in design of microcomputer-based systems. Emphasis is on the application of state-of-the-art microprocessors, microcomputers for data collection using A/D converters; D/A converter. Includes Laboratory.

**Prerequisite: Senior standing**

**CPEG 407 LINEAR CONTROL SYSTEM DESIGN - 3 semester hours**

Classical and modern techniques for design and compensation of linear feedback control systems. Includes Bode design, root locus design, state variable pole placement design.

**Prerequisites: CPEG 307 Linear System Analysis and PHYS 112 General Physics I**

**CPEG 410 DIGITAL COMMUNICATION - 3 semester hours**

Discrete Fourier Transforms. Binary and M-ary Signaling, Digital Communication in the Presence of Noise, Matched Filtering and Equalization, Introduction to Information Theory.

**Prerequisite: CPEG 307 Linear System Analysis and CPEG 308 Analog Communication**

**CPEG 411 COMMUNICATION SYSTEM DESIGN - 3 semester hours**

Application of communication theory to system design. Development of communication system specifications. System simulation utilizing a graphical programming language. Hardware and software design and simulation. Design of a complete analog or digital transmitter and receiver or significant subsystems.

**Prerequisite: CPEG 410 Digital Communication**

### **CPEG 412 ORGANIZATION AND DESIGN OF DIGITAL SYSTEMS AND COMPUTERS**

**3 semester hours**

Considerations for hardware organization of computer and digital systems; includes ALU and CPU structures, control unit organization, storage systems, and the I/O channels. Microprogramming the control unit and different interrupt structures.

**Prerequisite: CPEG 208 Microprocessors**

### **CPEG 413 DIGITAL SIGNAL PROCESSING AND FILTER DESIGN - 3 semester hours**

Discrete-time signals and systems, sampling, discrete Fourier transforms, analog filter characteristics, non-recursive and recursive filter design, and CAD tools for filter design.

**Prerequisite: CPEG 307 Linear System Analysis**

**Co-requisite: CPEG 423 Digital Signal Processing and Filter Design Laboratory**

### **CPEG 414 INTRODUCTION TO PATTERN RECOGNITION - 3 semester hours**

Design of learning and adaptive machines. Elementary decision theory, perception algorithm, Bayes Classification rule, learning algorithms, elements of syntactic pattern recognition, adaptive classifiers.

**Prerequisite: Senior standing in CPEG. Non majors require consent of instructor.**

### **CPEG 415 INTRODUCTION TO DIGITAL IMAGE PROCESSING - 3 semester hours**

Basic methods for digitizing, storing, processing, and displaying images. Computational procedures for image enhancement, restoration, coding, and segmentation.

**Prerequisite: Senior standing in CPEG. Non majors require consent of instructor.**

### **CPEG 416 EMBEDDED CONTROLLERS - 3 semester hours**

Project oriented course in development system with cross-compilers and emulation capability. Interfacing and hardware/software tradeoffs in interrupt driver applications.

**Prerequisite: CPEG 208 Microprocessors**

**Co-requisite: CPEG 426 Embedded Controllers Lab**

### **CPEG 420 NANOTECHNOLOGY FABRICATION PRINCIPLES - 3 semester hours**

Introduction to semiconductor fabrication principles and technology, including crystal growth, oxidation, diffusion, ion implantation, photolithography, chemical vapor deposition, physical vapor deposition, plasma reactive ion etching, chemical mechanical polishing and other nanotechnology manufacturing techniques.

### **CPEG 422 ADVANCED INTEGRATED CIRCUIT DESIGN - 3 semester hours**

Advanced designed topics will be addressed, including digital design circuits, propagation delay, noise margins, power dissipation, various design styles and architectures as well as the issues that designers must face, such as the influence of technology scaling on circuit performance and the impact of interconnect parasitic for optimizing the speed, area or power. CAD Tools for layout, extraction and simulation will be used for assignments.

### **CPEG 423 DIGITAL SIGNAL PROCESSING AND FILTER DESIGN LAB - 1 semester hour**

Implement digital signal processing algorithms including: sampling, digital filtering, and simulation. Develop and test Finite Impulse Response (FIR) filters, Infinite Impulse Response (IIR) filters, and Digital Signal Processor (DSP) applications on DSP microprocessors. Reinforce the concepts learned in CPEG 413 Digital Signal Processing and Filter Design.

**Co-requisite: CPEG 413 Digital Signal Processing and Filter Design**

**CPEG 426 EMBEDDED CONTROLLERS LAB - 1 semester hour**

Project oriented laboratory course in the areas on microprocessor based systems and micro-controllers.

**Prerequisite:** CPEG 208 Microprocessors.

**Co-requisite:** CPEG 416 Embedded Controllers

**CPEG 461 SENIOR DESIGN I - 2 semester hour (3 contact hours)**

Capstone design projects that focus on the early stages of project development: design methodology, literature review, specifications development, design alternatives, project plan, and project management. Written and oral communications. Team building. Ethics and professionalism.

**Prerequisite:** Graduating Senior standing

**CPEG 462 SENIOR DESIGN II - 2 semester hour (3 contact hours)**

Hardware and Software implementation of the capstone design projects proposed in CPEG 461 SENIOR DESIGN I. Design prototyping, testing, evaluation, project reports and project presentation.

**Prerequisite:** CPEG 461

**CPEG 499 SPECIAL TOPICS - 1 to 3 semester hours**

Topics relating to basic design and current practice. Maximum three hours.

**Prerequisite:** Completion of all junior CPEG courses or consent of instructor

## ENGINEERING COURSES

**ENGR 101 INTRODUCTION TO ENGINEERING I - 2 semester hours**

Introduction to the engineering profession, Introduction to problem solving using analytical, graphical, and computer tools including scientific word processors, spreadsheets and database packages, mathematical computation software. Introduction to logic. Engineering ethics and professional responsibilities. This course includes lab sessions.

**ENGR 102 INTRODUCTION TO ENGINEERING II - 2 semester hours**

Introduction to problem solving using analytical, graphical, and computer tools including scientific word processors, spreadsheets and database packages, mathematical computation software. Introduction to engineering analyses. Engineering ethics and professional responsibilities. This course includes lab sessions.

**Prerequisite:** ENGR 101 Introduction to Engineering I

**ENGR 200 ENGINEERING GRAPHICS (Lab included) - 3 semester hour**

Freehand sketching, lettering scales, use of instruments, layout drawings, orthogonal projection, descriptive geometry, pictorials, and basic dimensioning. Technical communication in design, engineering, and manufacturing. Introduction to computer-aided design and drafting, Introduction to solid modeling.

**ENGR 201 CIRCUIT ANALYSIS - 3 semester hours**

Fundamentals laws of circuit analysis. Ohm's Law, Kirchhoff's current and voltage laws, the law of conservation of energy, circuits containing independent and dependent voltage and current sources, resistance, conductance, capacitance and inductance analyzed using mesh and nodal analysis, superposition and source transformations, and Norton's and Thevenin's Theorems. Steady state analysis of DC and AC circuits. Complete solution for transient analysis for circuits with one and two storage elements.

**Prerequisite:** MATH 260 Calculus I.

**Co-requisite:** ENGR 221 Analog Circuits Laboratory

**ENGR 203 INTRODUCTION TO PROGRAMMING - 3 semester hours**

An introduction to the computer, to the algorithmic process, and to programming in C using standard control structures. Windows and UNIX operating systems are used.

**Prerequisite:** ENGR 101 Introduction to Engineering I

## **ENGR 204 INTRODUCTION TO OBJECT ORIENTED PROGRAMMING**

### **3 semester hours**

Advanced program design and implementation in the C++ programming language. Object-oriented programming with concepts including class structure and behavior, objects, inheritance and reuse, virtual functions and polymorphism, exception handling, templates, and the Standard Template Library. The Windows and/or UNIX operating are used.

**Prerequisite:** ENGR 203 Introduction to Programming

## **ENGR 210 STATICS AND STRENGTH OF MATERIALS - 3 semester hours**

The first part of this course covers the application of the principles of engineering mechanics to problems involving equilibrium of particles and solids. Topics include resultants, equilibrium, friction, trusses, center of gravity and moments of inertia. The second part of this course introduces the principles of mechanics necessary for the solution of engineering problems relating to strength, stiffness and material selection. Topics covered include stress, strain, torsion, beams, columns and combined stresses at a point.

**Prerequisite:** ENGR 101 Introduction to Engineering I.

**Co-requisite:** MATH 261 Calculus II

## **ENGR 221 ANALOG CIRCUITS LABORATORY - 1 semester hour**

Measurement techniques and experiments on fundamental laws. Circuit analysis techniques including: Ohm's Law, Kirchhoff's current and voltage laws, the law of conservation of energy, Norton's and Thevenin's Theorems, mesh and nodal analysis, superposition, and source transformations. Reinforce the concepts learned in ENGR 201 Circuit Analysis.

**Co-requisite:** ENGR 201 Circuit Analysis

## **ENGR 301 ENGINEERING STATISTICS - 3 semester hours**

Engineering applications of the concepts of probability, statistical distributions, statistical analysis, regression and correlation analysis, analysis of variance and covariance, design of experiments.

**Prerequisite:** MATH 260 Calculus I

## **ENGR 305 MATERIALS ENGINEERING - 3 semester hours**

Structure of matter. Physical and mechanical properties of materials including metals, polymers, ceramics, composites, and electronic materials. Equilibrium diagrams. Heat treatments, material selection and testing and corrosion phenomena.

**Prerequisite:** CHEM 151

## **ENGR 310 ENGINEERING ECONOMICS - 3 semester hours**

Analysis of the time value of money as applied to the manufacturing environment. Economic analysis of engineering decisions. Determining rates of return on investments. Effects of inflation, depreciation and income taxes. Sensitivity, uncertainty, and risk analysis. Application of basic principles and tool of analysis using case studies.

**Prerequisite:** MATH 260 Calculus I

## **ENGR 313 THERMAL ENGINEERING - 3 semester hours**

Basic concepts and definitions, properties of pure substance, work and heat, first law of thermodynamics, second law of thermodynamics, and introduction to conductive, convective, and radiative heat transfer.

**Prerequisite:** PHYS 112 General Physics I.

**Co-requisite:** MATH 350 Differential Equations

## **ENGR 315 DYNAMICS - 3 semester hours**

Kinematics of particles and rigid bodies. Rectilinear motion, Curvilinear motion, Coordinates systems, velocity, acceleration, relative motion. Newton's second law. Kinetics of particles, Angular momentum, Work-energy methods, Impulse and momentum. Vector mathematics where appropriate.

**Prerequisite:** PHYS 112 General Physics I and ENGR 210 Statics/Strength of Materials

**ENGR 430 QUALITY ENGINEERING - 3 semester hours**

An analysis of the basic principles of quality control, including Total Quality Management and design and analysis of process control charts and sampling plans.

**Prerequisite:** ENGR 301 Engineering Statistics

**MANUFACTURING ENGINEERING COURSES****MANE 205 MANUFACTURING PROCESS I - 3 semester hours**

The types and properties of engineering materials including metals and polymers as employed in contemporary practice. The traditional manufacturing processing methods by which this materials are shaped into products such as machining, casting, forming, and fabricating techniques. Several experiments will be conducted.

**Prerequisite:** ENGR 102 Introduction to Engineering II

**MANE 210 MANUFACTURING PROCESS II - 3 semester hours**

Modern manufacturing processes and related topics. Includes ceramics, composites, powder metallurgy, property enhancing and surface processing operations, rapid prototyping, and micro-fabricating. An introductory review of manufacturing support system including production planning and control, quality control, and measurement and inspection.

**Prerequisite:** MANE 205 Manufacturing Process I

**MANE 310 – COMPUTED-AIDED MANUFACTURING WITH LAB - 3 semester hours**

Design components and assemblies using wire-frame, surface and solid model generation. Manual NC part programming. Benefits, limitations, and selection of CAD and CAM systems. CAD as an input to CAM, and graphics-based NC programming. Configuration of CAD/CAM software, post-processor generation.

**Prerequisite:** ENGR 200 Engineering Graphics and MANE 210 Manufacturing Process II

**MANE 315 MANUFACTURING AUTOMATION WITH LAB - 3 semester hours**

Design of integrated production systems including flexible, programmed automatic control for fabrication, assembly, packaging, movement, and storage. Introduction to numerical control, industrial robotics, programmable logic controllers, and computer integrated manufacturing. Several experiments will be conducted.

**Prerequisite:** ENGR 201 Circuit Analysis, ENGR 315 Dynamics and MANE 210 Manufacturing Process II

**MANE 400 SENIOR SEMINAR - 1 semester hour**

Engineering design, literature searches, industry verses graduate school career options, ethics, professionalism and safety. The Fundamentals of Engineering (FE) Exam will be reviewed for students seeking certification as an Engineer-in-Training and subsequently as Professional Engineer. A departmental assessment examination on fundamental of engineering will be administrated.

**Prerequisite:** Senior standing in MANE.

**MANE 410 PRODUCTION PLANNING AND INVENTORY Control - 3 semester hours**

Analysis and design of systems for planning, scheduling and controlling production, inventory and service operations and activities using operations research and dynamic systems method. Inventory analysis and control for single and multi-item systems. Production control methods like MRP, MRP-II, JIT, and Kanban. Manufacturing Strategy and competitiveness.

**MANE 415 PROJECT ENGINEERING AND MANAGEMENT - 3 semester hours**

This course introduces Project Management skills needed to define, plan, monitor and complete projects as well as to identify the tools and techniques to resolve problems associated with bringing projects in on time and within an established budget and with high quality. Discussion will include application of network flow and sensitivity analysis in managing, scheduling and controlling a project with GANTT, CPM and PERT method. We will combines theories, techniques, group activities, and computer tools such as Microsoft Project.

**MANE 420 SIMULATIONS - 3 semester hours**

An introduction to discrete event simulation methods with emphasis on applications in manufacturing. The operations research topic of queuing theory is used to illustrate the importance of simulation as a problem-solving tool. Concepts and techniques of simulation modeling are covered as well as the statistical concepts and techniques required to obtain representative data, apply it to the model, and evaluate the results. A current high-level simulation language will be used to code the model for running on the computer.

**Prerequisites: ENGR 301 Engineering Statistics and ENGR 203 Introduction to Programming**

**MANE 440 MANUFACTURING STRATEGY/ERP - 3 semester hours**

A study of development of economic production systems for discrete products in a competitive manufacturing environment. Emphasis is on the interrelationships between product design and production process selection. Concepts of design for manufacture and assembly, tool engineering, and manufacturing systems design are included.

**Prerequisite: Senior standing in MANE**

**MANE 461, 462 SENIOR PROJECT 1, 11 - 2 semester hours per course**

Faculty supervised projects typical of problems which graduates encounter in their professions and which involve costs, planning scheduling and research. Formal written reports suitable for reference library, that include discussions of methodology, results, and conclusions.

**Prerequisite: G r a d u a t i n g Senior standing in MANE**

**MANE 499 SPECIAL TOPICS IN MANUFACTURING ENGINEERING - 3 semester hours**

A course of independent study covering topics in Manufacturing Engineering as technical elective. Goal is to enhance student skills and knowledge in relevant topic.

**Prerequisite: Permission of the instructor**

**COMPUTER SCIENCE**  
**Course Descriptions**

**INTRODUCTORY COURSES**

**CSCI 100 INTRODUCTION TO COMPUTERS - 3 semester hours**

Brief history of computers. Computer architecture: Processing, Input/Output and Communication Devices. Software: operating systems and applications. The Internet, networking and mobile computing. Introduction to basic application programs

**CSCI 120 INTRODUCTION TO PROGRAMMING - 3 semester hours**

An introduction to basic programming concepts using visual, graphical programming environments, and simple game design approach

**CORE COURSES**

**CSCI 101 INTRODUCTION TO COMPUTER SCIENCE PROFESSION - 1 semester hour**

This course provides an introduction to the computer science professions. Basic skills and qualities such as collaborative learning, effective communications, and computer science codes of ethics will be introduced.

**Co-requisites: CSCI 150 Programming I; CSCI 151 Programming I Labs**

**CSCI 150 PROGRAMMING I - 3 semester hours**

Introduces fundamental concepts of programming from an object-oriented perspective. Emphasizes problem solving, basic software design principles, and programming skills in a programming language that supports the object-oriented paradigm. Coverage includes simple data types, control structures, array and string data structures, basic testing and debugging. Students must be co-enrolled in CSCI 151.

**Co-requisites: CSCI 101 Introduction to Computer Science Profession,  
CSCI 150 Programming I, CSCI 151 Programming I Lab**

**CSCI 151 PROGRAMMING I LAB - 1 semester hour**

Hands-on programming exercises on topics covered in CSCI 150. Students must be co-enrolled in CSCI 150.

**Co-requisites: CSCI 101 Computer Science Profession and CSCI 150 Programming I**

**CSCI 250 PROGRAMMING II - 3 semester hours**

Continuation of CSCI 150. Builds on knowledge of fundamentals of programming to include more advanced object-oriented concepts, file I/O, basic sorting and searching, exception handling, and classic data structures such as arrays and lists. A programming-intensive course to develop software design and implementation skills. Students must be co-enrolled in CSCI 251.

**Co-requisite: CSCI 251 Programming II Lab**

**Prerequisite: CSCI 150 Programming I; CSCI 151 Programming I Labs**

**CSCI 251 PROGRAMMING II LAB - 1 semester hour**

Hands-on programming exercises on topics covered in CSCI 250. Students must be co-enrolled in CSCI 250.

**Co-requisite: CSCI 250 Programming II**

**Prerequisites: CSCI 150 Programming I; CSCI 151 Programming I Labs**

**CSCI 281 DISCRETE STRUCTURES - 3 semester hours**

Recursion and Solutions of recurrence relations, Introduction to Graph Theory, Trees, Language and Grammars, Finite State Machines.

**Prerequisite: MATH 280 Discrete Mathematics for Computer Science**

**CSCI 287 DATA STRUCTURES - 3 semester hours**

This course emphasizes the implementation of programs that make use of lists, stacks, queues, trees, and hash tables in a variety of application settings. Several common algorithmic paradigms (such as recursion, searching, sorting, dynamic programming, divide and conquer) and their applications are also discussed.

**Prerequisites: CSCI 250 Programming I and CSCI 251 Programming I Lab**

**CSCI 296 WEB PROGRAMMING - 3 semester hours**

A programming intensive course that introduces the essential knowledge for website development. The course begins with web server installation and the fundamental web technologies (HTML, CSS, XML). It focuses mainly on client-side and server-side programming which exposes students to the techniques used in dynamic interactive websites.

**Prerequisites: CSCI 287 Data Structures**

**CSCI 303 COMPUTER ORGANIZATION AND ARCHITECTURE - 3 semester hours**

A treatment of computer organizations and architectures. Digital logic, data representation at logical and machine level, assembly level organization, memory systems, interfacing and communications as well as performance enhancements architecture elements. Discussion of different computer architecture and organizations. Programming in the assembly language.

**Prerequisites: CSCI 250 Programming II and CSCI 251 Programming II Lab**

**CSCI 356 DATABASE SYSTEMS - 3 semester hours**

Database Design, Entity-Relationship and Relational Model, Relational Algebra, Query Language SQL, Storage and File Structures, Query Processing, System Architectures.

**Prerequisites: CSCI 250 Programming II and CSCI 251 Programming II Lab**

**CSCI 392 ALGORITHMS AND ADVANCED DATA STRUCTURES - 3 semester hours**

Design, analysis and implementation of advanced data structures and related algorithms including trees, graphs, B-trees, advanced sorting algorithms, hashing. It is also a treatment of object-oriented concepts and object-oriented design. Basic software engineering skills and teaming.

**Prerequisites: CSCI 287 Data Structures and CSCI 281 Discrete Structures**

**CSCI 400 SENIOR SEMINAR - 2 semester hour**

Discussions based on current research that are facilitated by students, faculty members, or industry representatives. Students are expected to provide a written summary of each discussed research paper and to participate in in-class discussion. Each student facilitates the discussion at least once during the semester. The impact of the research in a global and societal context will be discussed.

**Prerequisites: Junior status or permission of instructor**

**CSCI 485 PROGRAMMING LANGUAGES - 3 semester hours**

Concepts for structuring data, computation, and whole programs. Object-oriented languages, functional languages, logic- and rule-based languages. Data Types, type checking, exception handling, concurrent processes, synchronization, modularity, encapsulation, interfaces, separate compilation, inheritance, polymorphism, dynamic binding, sub typing, overloading, beta-reduction, unification.

**Prerequisite: CSCI 287 Data Structures**

**CSCI 487 SOFTWARE DESIGN AND DEVELOPMENT - 3 semester hours**

A formal approach to current techniques in software design and development. Students work in teams in the organization, management, and development of a large software project.

**Prerequisite: CSCI 287 Data Structures**

### **CSCI 489 OPERATING SYSTEMS - 3 semester hours**

This course introduces basic concepts in operating systems. This course will be focused on process management, implementation of mutual exclusion and synchronization, deadlock and starvation, memory management, scheduling, I/O, and file management. Students will also understand how operating systems have developed historically and future trends, as well as shell command line usage in modern operating systems.

**Prerequisite:** CSCI 287 Data Structures, CSCI 303 Computer Organization and Architecture

### **CSCI 493 SENIOR PROJECT I - 3 semester hours**

This class is the first in the two-course senior project sequence. In this course, students will begin a substantial research-oriented individual project. The student will perform project identification and planning, software design, implementation, and testing using an agile development approach. At the completion of this course students must complete a working prototype of the project. Projects from this course must be completed during the following semester in CSCI 494.

**Prerequisites:** Senior status or permission of instructor

### **CSCI 494 SENIOR PROJECT II - 3 semester hours**

This is the second course in the two-course senior project sequence. The students will complete a well-tested implementation of the project that they began in CSCI 493. Additional related work research, presentations, and reporting of the project will be performed. The class culminates in a demo day, where students present their projects to faculty, students, and external visitors.

**Prerequisites:** CSCI 493 Senior Project

## **ELECTIVE COURSES**

### **CSCI 298 INTERNSHIP IN COMPUTER SCIENCE I - 1 semester hour**

The internship allows students to obtain practical work experience related to computer science under closely supervised conditions for approximately 45 clock hours. Students must complete a Memorandum of Agreement prior to commencing the internship. Course may be taken more than once for credit but no more than 3 times.

**Prerequisite:** junior standing and permission of Department advisor

### **CSCI 312 INTRODUCTION TO ROBOTICS - 3 semester hours**

A basic treatment of robotics systems in practice and research. It surveys selected topics in vision, kinematics and inverse kinematics, motion planning, trajectory generation, localization, sensors, programming and design, and artificial intelligence. Laboratory and projects are integral components of the course.

**Prerequisite:** CSCI 250 Programming II or equivalent.

**Co-requisite:** MATH 325 Linear Algebra or permission of instructor

### **CSCI 358 INTRODUCTION TO INFORMATION ASSURANCE - 3 semester hours**

Introduction to the confidentiality, availability and integrity goals of information systems. Topics covered include introduction to principles of information security from the perspective of the World Wide Web, identification/authentication, computer/network security, dependability, access control, security evaluation and other issues.

**Prerequisite:** CSCI 250: Programming II

### **CSCI 361 EMBEDDED SYSTEMS: DESIGN AND APPLICATIONS - 3 semester hours**

The fundamentals of embedded system hardware and software design will be explored. Issues such as embedded programming, firmware design, development tools, and host communication will be discussed. Microcontrollers will be studied through a series of projects using a microprocessor evaluation board. These projects will expose students to programming tasks to work with physical sensors (such as GPS, medical sensor, etc.) and write applications for smart phones, robots, **unmanned vehicles and spacecraft.**

**Prerequisites:** CSCI 250 Programming II and CSCI 251 Programming II Lab

### **CSCI 389 HUMAN COMPUTER INTERACTION - 3 semester hours**

Facts, theories, and issues about human sensation, perception, and interaction for developing information processing systems interacted with humans. Other related human factors such as workplace, environmental, ethical and legal issues will be discussed. Software applications with rich human interface are to be designed, implemented and tested by teams of students.

**Prerequisites: CSCI 250 Programming II and CSCI 251 Programming II Lab**

### **CSCI 398 INTERNSHIP IN COMPUTER SCIENCE II - 3 semester hours**

The internship allows students to obtain practical work experience related to computer science under closely supervised conditions for approximately 135 clock hours. Students must complete a Memorandum of Agreement prior to commencing the internship Course may be taken more than once for credit but no more than 2 times.

**Prerequisite: Junior standing and permission of Department advisor**

### **CSCI 402 INTRODUCTION TO ARTIFICIAL INTELLIGENCE - 3 semester hours**

Basic problem-solving strategies, heuristic search, problem reduction AND/OR graphs, knowledge representation, expert systems, generating explanations, uncertainty reasoning, game playing, planning, machine learning, computer vision, and programming systems such as Lisp or Prolog.

**Prerequisite: CSCI 287 Data Structures**

### **CSCI 445 COMPUTER COMMUNICATION NETWORKS - 3 semester hours**

ISO model for communications. Protocols for physical, data link and network communications. Sockets. TCP/IP. Applications. Protocol correctness and efficiency. Error detection and recovery. Local-area and Wide-area networks.

**Prerequisites: CSCI 250 Programming II and CSCI 251 Programming II Lab**

### **CSCI 450 COMPUTER FORENSICS - 3 semester hours**

Introduction to principles of computer forensics methodology and emerging investigation techniques related to the identification, collection and preservation of digital crime scene evidence. Popular hardware and software tools recognized in the computer forensics field will be introduced.

**Prerequisite: CSCI 358 Introduction to Information Assurance**

### **CSCI 451 COMPUTER SECURITY - 3 semester hours**

This course focuses on communication security in computer systems and networks. It is intended to provide students with a comprehensive introduction to the field of network security. The course covers critical network security services such as authentication and access control, integrity and confidentiality of data, routing, firewalls, virtual private networks, and web security. Where appropriate, we examine threats and vulnerabilities to specific architectures and protocols.

**Prerequisite: CSCI 358 Introduction to Information Assurance**

### **CSCI 452 INTRODUCTION TO CRYPTOGRAPHY - 3 semester hours**

This course introduces cryptography and encryption concepts and how they are applied in real-world situations in order to implement strong and reliable security safeguards. This course will survey the various cryptography and encryption methods used in today's information technology and communications environments as well as to review the considerations for selecting commercial products that support encryption technology.

**Prerequisites: CSCI 358 Introduction to Information Assurance and CSCI 287 Data Structures**

**CSCI 453 DIGITAL IMAGE PROCESSING - 3 semester hours**

Introduction to the fundamentals of digital image processing. It emphasizes general principles of image processing, rather than specific applications. It covers topics such as image acquisition and display, properties of the human visual system, color representations, sampling and quantization, point operations, linear image filtering and correlation, transforms and nonlinear filtering, contrast and color enhancement, digital image file formats etc.

**Prerequisites: CSCI 287 Data Structures**

**CSCI 456 ADVANCED DATABASE APPLICATIONS - 3 semester hours**

Applications of advanced database systems. Students will work on a series of projects using industry standard software.

**Prerequisite: CSCI 356 Database Systems**

**CSCI 460 COMPUTABILITY AND FORMAL LANGUAGE THEORY - 3 semester hours**

Formal models of computation such as finite state automata, pushdown automata and Turing machines. Formal definitions of languages, problems, and language classes including recursive, recursively enumerable, regular, and context free languages. Halting problems, undecidable problems, recursive functions, Chomsky hierarchy, Church's thesis and the limits of computability. Proofs of program properties including correctness.

**Prerequisite: CSCI 281 Discrete Structures 3 semester hours**

**CSCI 462 COMPILER CONSTRUCTION - 3 semester hours**

Exploration of the design of programming language translators. Includes parsing, run-time storage management, error recovery, and code generation and optimization.

**Prerequisites: CSCI 485 Programming Languages and CSCI 460 Computability and Formal Language Theory**

**CSCI 480 COMPUTER GRAPHICS - 3 semester hours**

Techniques of modeling objects for the purpose of computer rendering: boundary representations, constructive solids geometry, hierarchical scene descriptions: mathematical techniques for curve and surface representation. Basic elements of computer graphics rendering pipeline; architecture of modern graphics display devices; Geometrical transformations such as rotation, scaling, translation, and their matrix representations. Homogenous coordinates, projective and perspective transformations: Algorithms for clipping, hidden surface removal, rasterization, and anti-aliasing. Scan-line based and ray rendering algorithms. Lighting models for reflection, refraction, transparency.

**Prerequisites: CSCI 287 Data Structures, MATH 360 Calculus III and MATH 325 Linear Algebra**

**CSCI 482 MATRIX COMPUTATIONS - 3 semester hours**

This course is fundamental for students who will pursue graduate studies of applications of computers to science and engineering. Vector and matrix Norms. Numerical Linear Algebra, condition number, singular values. Householder and Givens transformations. Orthogonalization and least Squares methods. The eigenvalue problem. Basic iterative methods: Jacobi Gauss-Seidel and SOR.

**Prerequisites: CSCI 250 Programming II, CSCI 251 Programming II Labs and MATH 325 Linear Algebra**

**CSCI 488 ADVANCED SYSTEMS ARCHITECTURE - 3 semester hours**

Fundamentals of uniprocessors and multiprocessors, scheduling, speculation, and multithreading.

**Prerequisite: CSCI 489 or its equivalent**

**CSCI 492 ALGORITHMS AND COMPLEXITY - 3 semester hours**

Recommended for students pursuing a graduate degree in Computer Science, definitions of algorithm and its complexity, proof of correctness of an algorithm, notion of time and space complexity, the complexity hierarchy, average and worst case complexity, complexity of search and sorting algorithms, recurrence relations arising from basic algorithms, linear and non-linear recurrences, divide-and-conquer algorithms, dynamic programming.

**Prerequisite: CSCI 287 Data Structures**

**CSCI 495 TOPICS IN COMPUTER SCIENCE - 3 semester hours**

Topics vary depending upon needs of students and current interest of the instructor. Students interested in the specific content of this course as offered in a particular term should consult the instructor.

**Prerequisite: Consent of instructor**

**CSCI 496 WEB DESIGN AND CYBER SECURITY - 3 semester hours**

An introduction to Web design and site management. Topics include JavaScript, PHP, database, and web security such as identifying and avoiding web vulnerabilities, detecting and preventing phishing, hacking and etc.

**Prerequisites: CSCI 358 Introduction to Information Assurance and CSCI 287 Data Structures**

## PHYSICS Course Descriptions

**PHYS 100 PHYSICAL SCIENCE – 3 semester hours**

This physical science course is designed for non-science majors. It covers basic physical science areas relating to motion, momentum, angular momentum, energy, gravity, and thermodynamics.

**Co-requisite: PHYS 100 Physical Science Laboratory**

**PHYS 100 PHYSICAL SCIENCE LABORATORY – 1 semester hour**

Laboratory experiments in measurement techniques, mechanics, heat, vibrations and waves.

**Co-requisite: PHYS 100 Physical Science**

**PHYS 105 INTRODUCTION TO PHYSICS I – 3 semester hours**

A study of the basic concepts of physics including vector algebra, momentum, angular momentum, energy, gravity, and thermodynamics. This course is designed for science students.

**Co-requisite: PHYS 105 Introduction to Physics I Lab**

**PHYS 105 INTRODUCTION TO PHYSICS I LABORATORY – 1 semester hour**

Laboratory experiments in measurement techniques, mechanics, heat, vibrations, and waves emphasizing proper methods of data and error analysis designed to complement PHYS105.

**Co-requisite: PHYS 105 Introduction to Physics I**

**PHYS 106 INTRODUCTION TO PHYSICS II – 3 semester hours**

A continuation of PHYS105 treating electrostatics, magnetism, circuits, optics, relativity, atomic structure, the nucleus and fundamental particles.

**Prerequisite: PHYS 105 Introduction to Physics I**

**Co-requisite: PHYS 106 Introduction to Physics II Lab**

**PHYS 106 INTRODUCTION TO PHYSICS II LABORATORY – 1 semester hour**

Laboratory experiments in electromagnetism, wave motion, optics, atomic structure, and nuclear physics designed to complement PHYS 105.

**Prerequisite: PHYS 105 Introduction to Physics I Laboratory**

**Co-requisite: PHYS 106 Introduction to Physics II**

**PHYS 112 GENERAL PHYSICS I – 3 semester hours**

A calculus-based study of the basic concepts of physics. Topics include vector algebra, kinematics, dynamics of single- and many particle systems, gravitation, energy, momentum, conservation laws, circular and rigid body motion, elasticity, fluid mechanics, thermal equilibrium, temperature, and the laws of thermodynamics with applications to ideal gases and thermodynamic processes.

**Co-requisite: MATH 260 Calculus I; PHYS 112 General Physics I Laboratory**

**PHYS 112 GENERAL PHYSICS I LABORATORY – 1 semester hour**

Laboratory experiments in mechanics, fluids, and heat designed to complement PHYS112.

**Co-requisite: PHYS 112 General Physics I**

**PHYS 113 GENERAL PHYSICS II – 3 semester hours**

A continuation of PHYS112 treating electromagnetism and optics.

**Prerequisite: PHYS 112 General Physics I**

**Co-requisites: MATH 261 Calculus II; PHYS 113 General Physics II Laboratory**

**PHYS 113 GENERAL PHYSICS II LABORATORY – 1 semester hour**

Laboratory experiments in electromagnetism and optics designed to complement PHYS 113.

**Prerequisite: PHYS 112 General Physics I Laboratory**

**Co-requisite: PHYS 113 General Physics II**

**COGNATE COURSES****MATH 280 DISCRETE MATHEMATICS FOR COMPUTER SCIENTISTS****3 semester hours**

The purpose of this course is to introduce fundamental techniques in Discrete Mathematics for application in Computer Science. Sets, Mathematical logic, Proof Techniques, Relations, Functions, Mathematical Induction, Counting Principle, Analysis of Algorithms.

**Prerequisite: MATH 121 College Algebra and Trigonometry**

**STAT 340 PROBABILITY AND STATISTICS FOR COMPUTER SCIENTISTS****3 semester hours**

Introduction to the concepts of probability, random variables, estimation, hypothesis testing, regression, and analysis of variance with emphasis on application.

**Prerequisites: MATH 261 Calculus II; CSCI 281 Discrete Structures**

**DEPARTMENT OF ENGINEERING AND COMPUTER SCIENCE**  
**Bachelor of Science - Computer Engineering**

Course Number	Title	Semester Hours		
		1st Sem	2nd Sem	Total Hours
<b>FRESHMAN YEAR</b>				
MATH 260	Calculus I	4	-	4
ENGL 110	Composition I	3	-	3
ENGR 101	Introduction to Engineering I	2	-	2
GE	Social Sciences Elective	3	-	3
GE	History Elective	3	-	3
MATH 261	Calculus II	-	4	4
ENGL 111	Composition II	-	3	3
Restricted <sup>1</sup>	Elective	-	3	3
ENGR 102	Introduction to Engineering II	-	2	2
ENGR 203	Introduction to Programming	-	3	3
HPER	Wellness/Health	-	2	2
	<b>Totals</b>	<b>15</b>	<b>17</b>	<b>32</b>
<b>SOPHOMORE YEAR</b>				
PHYS 112	Physics I with Lab	4	-	4
ENGL 342	Technical Communication	3	-	3
CPEG 207	Digital Systems	3	-	3
CPEG 227	Digital Systems Lab	1	-	1
ENGR 204	Object Oriented Programming	3	-	3
Elective		3	-	3
PHYS 113	Physics II with Lab	-	4	4
ENGR 201	Circuit Analysis	-	3	3
ENGR 221	Analog Circuits Lab	-	1	1
MATH 350	Differential Equations	-	3	3
CPEG 208	Microprocessors	-	3	3
CPEG 228	Microprocessors Lab	-	1	1
	<b>Totals</b>	<b>17</b>	<b>15</b>	<b>32</b>
<b>JUNIOR YEAR</b>				
CHEM 151	General Chemistry	3	-	3
CHEM 153	General Chemistry Lab	1	-	1
MATH 284	Discrete Math	3	-	3
MATH/SCI	Elective	3	-	3
CPEG 303	Introduction to Electronics	3	-	3
CPEG 323	Introduction to Electronics Lab	1	-	1
CPEG 307	Linear System Analysis	3	-	3
CPEG 305	Operating System	-	3	3
CPEG 309	Advanced Digital System Design	-	3	3
CPEG 329	Advanced Digital System Design Lab	-	1	1
ENGR 310	Engineering Economy	-	3	3
GEEN 310	Advanced Communication Skills	-	3	3
Restricted <sup>2</sup>	Elective	-	3	3
	<b>Totals</b>	<b>17</b>	<b>16</b>	<b>33</b>
<b>SENIOR YEAR</b>				
CPEG 416	Adv. Micro & Micro-Controllers	3	-	3
CPEG 426	Adv. Micro & Micro-Controllers Lab	1	-	1
ENGR 301	Engineering Statistics	3	-	3
CPEG 461	Senior Design I	2	-	2
GE	Global Studies Elective	3	-	3
Restricted <sup>3</sup>	Elective	3	-	3
CPEG 404	Real Time Data Acquisition and Control	-	3	3
CPEG 413	Digital Signal Processing and Filter Design	-	3	3
CPEG 423	Digital Signal Processing and Filter Design Lab	-	1	1
CPEG 462	Senior Design II	-	2	2
PHIL 450	Applied Ethics	-	3	3
ENGL	Literature Elective	-	3	3
	<b>Totals</b>	<b>15</b>	<b>15</b>	<b>30</b>

Total Semester Hours 127

1. 100 level and above courses from CPEG, MANE, ENGR, ENGT, IFLT, CSCI, and MISY.
2. 200 level and above courses from CPEG, MANE, ENGR, ENGT, IFLT, CSCI, and MISY.
3. 300 level and above courses from CPEG, MANE, ENGR, ENGT, IFLT, CSCI, MISY, and MATH

<sup>123</sup>**Requires prior approval**

Earn at least a "C" or higher in major courses (ENGR, CPEG, and restricted electives), MATH 260, and MATH 261.

**SUMMARY OF GRADUATION REQUIREMENTS  
Computer Engineering**

<b>General Education and Math/Science Courses (58 hours)</b>		
ENGL 110	3 Credit hours	Composition I
ENGL 111	3 Credit hours	Composition II
ENGL 342	3 Credit hours	Technical Communications.
ENGL Literature	3 Credit hours	Literature Elective
GE Social Science	3 Credit hours	Social Science Elective <sup>2</sup>
GE History	3 Credit hours	History Elective
GE Global Studies	3 Credit hours	Glob Studies Elective
GEEN 310	3 Credit hours	Advanced Communication
PHIL 450	3 Credit hours	Applied Ethics
Health/Wellness	2 Credit hours	Health/Wellness Elective
MATH 260	4 Credit hours	Calculus I
MATH 261	4 Credit hours	Calculus II
MATH 350	3 Credit hours	Differential Equations
MATH 284	3 Credit hours	Discrete Mathematics
MATH/SCI	3 Credit hours	Math/Science Elective <sup>1</sup>
PHYS 112	4 Credit hours	General Physics I w/ Lab
PHYS 113	4 Credit hours	General Physics II w/ Lab
CHEM 151/CHEM153	4 Credit hours	General Chemistry/General Chemistry Lab

<b>Computer Engineering Core courses (37 hours)</b>		
CPEG 207	3 Credit hours	Digital Systems
CPEG 227	1 Credit hours	Digital Systems Lab
CPEG 208	3 Credit hours	Microprocessors
CPEG 228	1 Credit hours	Microprocessors Lab
CPEG 303	3 Credit hours	Intro to Electronics
CPEG 323	1 Credit hours	Intro to Electronics Lab
CPEG 305	3 Credit hours	Operating Systems
CPEG 307	3 Credit hours	Linear System Analysis
CPEG 309	3 Credit hours	Advanced Digital System Design
CPEG 329	1 Credit hours	Advanced Digital System Design Lab
CPEG 404	3 Credit hours	Data Acquisition
CPEG 413	3 Credit hours	Digital Signals & Filtering
CPEG 423	1 Credit hours	Digital Signals & Filtering Lab
CPEG 416	3 Credit hours	Embedded Controllers
CPEG 426	1 Credit hours	Embedded Controllers Lab
CPEG 461	2 Credit hours	Senior Design I
CPEG462	2 Credit hours	Senior Design II

**Engineering (ENGR) Courses (20 hours)**

ENGR 101	2 Credit hours	Introduction to Engineering I
ENGR 102	2 Credit hours	Introduction to Engineering II
ENGR 201	3 Credit hours	Circuit Analysis
ENGR 221	1 Credit hours	Circuit Analysis Lab
ENGR 203	3 Credit hours	Introduction to Programming
ENGR 204	3 Credit hours	Object Oriented Programming.
ENGR 301	3 Credit hours	Engineering Statistics
ENGR 310	3 Credit hours	Engineering Economics

**Other Elective Courses (12 hours)**

Restricted Elective	3 Credit hours
Restricted Elective	3 Credit hours
Restricted Elective	3 Credit hours
Free Elective	3 Credit hours

Free elective approved by your advisor.

**DEPARTMENT OF ENGINEERING  
AND COMPUTER SCIENCE  
Bachelor of Science – Manufacturing Engineering**

		Semester Hours		
		1st	2nd	Total
		Sem	Sem	Hours
<b>FRESHMAN YEAR</b>				
MATH 260	Calculus I	4	-	4
ENGL 110	Composition I	3	-	3
GESO	History Elective	3	-	3
ENGR 101	Introduction to Engineering I	2	-	2
GESO	Social Science Elective	3	-	3
CHEM 151	General Chemistry	-	3	3
CHEM 153	General Chemistry Lab	-	1	1
MATH 261	Calculus II	-	4	4
ENGL 111	Composition II	-	3	3
HPER	Wellness/Health	-	2	2
ENGR 102	Introduction to Engineering II	-	2	2
ENGR 200	Engineering Graphics with Lab	-	3	3
<b>Totals</b>		<b>15</b>	<b>18</b>	<b>33</b>
<b>SOPHOMORE YEAR</b>				
PHYS 112	Physics I with Lab	4	-	4
GESO	Global Studies Elective	3	-	3
ENGR 210	Statics and Strength of Material	3	-	3
MANE 205	Manufacturing Process I	3	-	3
	Elective	3	-	3
PHYS 113	Physics II with Lab	-	4	4
ENGL	Literature Elective	-	3	3
MATH 350	Differential Equations	-	3	3
MANE 210	Manufacturing Process II	-	3	3
ENGR 315	Dynamics	-	3	3
<b>Totals</b>		<b>16</b>	<b>16</b>	<b>32</b>
<b>JUNIOR YEAR</b>				
MANE 310	CAD/CAM with Lab	3	-	3
ENGR 305	Materials Engineering	3	-	3
ENGR 203	Introduction to Programming	3	-	3
ENGR 301	Engineering Statistics	3	-	3
ENGR 201	Electronic Circuits	3	-	3
ENGR 313	Thermal Engineering	-	3	3
ENGR 430	Quality Control with Lab	-	3	3
	Elective Math/Science	-	3	3
ENGL 342	Technical Communication	-	3	3
MANE 315	Manufacturing Automation	-	3	3
<b>Totals</b>		<b>15</b>	<b>15</b>	<b>30</b>
<b>SENIOR YEAR</b>				
MANE 410	Production Planning and Inventory Control	3	-	3
MANE 461	Senior Project I	2	-	2
	Elective	3	-	3
MATH 392	Linear Programming	3	-	3
ENGR 310	Engineering Economy	3	-	3
MANE 415	Project Engineering and Management	3	-	3
MANE 420	Simulation	-	3	3
MANE 462	Senior Project II	-	2	2
ENGR/MANE	Elective	-	3	3
PHIL 275/450	Ethics/Applied Ethics	-	3	3
ENGR/MANE	Elective	-	3	3
MANE 400	Senior Seminar	-	1	1
<b>Totals</b>		<b>17</b>	<b>15</b>	<b>32</b>

Total Semester Hours 127

Earn at least a "C" or higher in major courses (ENGR, MANE and restricted electives), MATH 260 and MATH 261.

**SUMMARY OF GRADUATION REQUIREMENTS (Manufacturing Engineering)**

<b>General Education and Math/Science Courses (55 hours)</b>		
ENGL 110	3 Credit hours	Composition I
ENGL 111	3 Credit hours	Composition II
ENGL 342	3 Credit hours	Technical Communication
ENGL	3 Credit hours	Literature Elective 1
GE Social Science	3 Credit hours	Elective 2
GESO	3 Credit hours	History Elective 3
GESO	3 Credit hours	Glob Studies Elective 4
PHIL 450	3 Credit hours	Applied Ethics
Health/ Wellness	2 Credit hours	Elective
MATH 260	4 Credit hours	Calculus I
MATH 261	4 Credit hours	Calculus II
MATH 350	3 Credit hours	Differential Equations
MATH 392	3 Credit hours	Linear Programming
MATH/SCI	3 Credit hours	Elective
PHYS 112	4 Credit hours	Physics I w/ Lab
PHYS 113	4 Credit hours	Physics II w/ Lab
CHEM 151/CHEM 153	4 Credit hours	General Chemistry/General Chemistry Lab
<b>Free elective courses (3 hours)</b>		
Elective	3 Credit hours	
<b>Manufacturing Engineering Core courses (26 hours)</b>		
MANE 205	3 Credit hours	Manufacturing Process I
MANE 210	3 Credit hours	Manufacturing Process II
MANE 310	3 Credit hours	CAD/CAM
MANE 315	3 Credit hours	Manufacturing Automation
MANE 400	1 Credit hours	Senior Seminar
MANE 410	3 Credit hours	Prod Plan Invent
MANE 415	3 Credit hours	Project Management
MANE 420	3 Credit hours	Simulation
MANE 461	2 Credit hours	Senior Project I
MANE 462	2 Credit hours	Senior Project II

<b>Engineering Courses (43hours)</b>		
ENGR 101	2 Credit hours	Introduction to Engineering I
ENGR 102	2 Credit hours	Introduction to Engineering II
ENGR 200	3 credit hours	Graphics
ENGR 201	3 Credit hours	Circuit Analysis
ENGR 203	3 Credit hours	Introduction to Programming
ENGR 210	3 Credit hours	Statics & Strength
ENGR 301	3 Credit hours	Engineering Statistics
ENGR 305	3 Credit hours	Materials Engineering
ENGR 310	3 Credit hours	Engineering Economics
ENGR 313	3 Credit hours	Thermal Engineering
ENGR 315	3 Credit hours	Dynamics
ENGR 430	3 Credit hours	Quality Control
ENGR/MANE Elective	3 Credit hours	
ENGR/MANE Elective	3 Credit hours	
ENGR/MANE Elective	3 Credit hours	

**DEPARTMENT OF ENGINEERING AND COMPUTER SCIENCE**  
**Bachelor of Science - Computer Science**

**Semester Hours**

Courses		1st Sem	2nd Sem	Total Hours
<b>FRESHMAN YEAR</b>				
CSCI 101	Introduction to the CS Profession	1	-	1
CSCI 150	Programming I	3	-	3
CSCI 151	Programming I Lab	1	-	1
MATH 260	Calculus I	4	-	4
ENGL 110	Composition I	3	-	3
	Social Science Elective	3	-	3
CSCI 250	Programming II	-	3	3
CSCI 251	Programming II Lab	-	1	1
MATH 261	Calculus II*	-	4	4
ENGL 111	Composition II	-	3	3
	History Elective	-	3	3
	Health & Wellness	-	2	2
<b>Totals</b>		<b>15</b>	<b>16</b>	<b>31</b>
<b>SOPHOMORE YEAR</b>				
CSCI 287	Data Structures	3	-	3
	Free Electives	3	-	4
MATH 280	Discrete Math for Computer Science	3	-	3
	Global Studies Elective	3	-	3
	Literature Elective	3	-	3
CSCI 281	Discrete Structures	-	3	3
CSCI 296	Web Programming	-	3	3
CSCI 303	Computer Organization and Architecture	-	3	3
PHIL 450	Applied Ethics (Humanities Elective)	-	3	3
	Free Elective*	-	3	3
<b>Totals</b>		<b>16</b>	<b>15</b>	<b>31</b>
<b>JUNIOR YEAR</b>				
STAT 340	Probability & Statistics for CS	3	-	3
CSCI 392	Advanced Data Struct. & Algorithms	3	-	3
	CSCI Elective	3	-	3
CSCI 356	Database Systems	3	-	3
	BIOL/CHEM/PHYS Laboratory Science	4	-	4
CSCI 489	Operating Systems	-	3	3
CSCI 487	Software Design & Development	-	3	
ENGL 342	Technical Communications	-	3	3
	CSCI Elective	-	3	3
	BIOL/CHEM/PHYS Laboratory Science	-	4	4
<b>Totals</b>		<b>16</b>	<b>16</b>	<b>12</b>

<b>SENIOR YEAR</b>				
CSCI 493	Senior Project I	3	-	3
CSCI 400	Senior Seminar	1	-	1
	CSCI/MATH/STAT Elective	3	-	3
	CSCI Elective	3	-	3
	BIOL/CHEM/PHYS Laboratory Science	4	-	4
CSCI 485	Programming Languages	-	3	3
CSCI 494	Senior Project II	-	3	3
	CSCI/CPEG/CISY Elective	-	3	3
	MATH Elective	-	3	3
		14	12	26

**Total Semester Hours 120**

### **Course Requirements for the B.S. in Computer Science**

- Complete a minimum of 120 semester hours of credit and have a cumulative GPA of 2.0 or better;
- Earn at least a grade of "C" in all Computer Science, Mathematics and Statistics courses;
- Complete the General Education (Core) requirements with PHIL 450 Applied Ethics serving as the Humanities elective;
- Complete a minimum of 43 hours in Computer Science core courses; 18 hours in Mathematics and Statistics; 9 elective hours in Computer Science (CSCI); 3 elective hours in Mathematics (MATH); 3 elective hours in Management Information Systems (MISY), Computer Science (CSCI) or Computer Engineering (CPEG); 12 hours in Physics (PHYS), Chemistry (CHEM), and/or Biology (BIOL) lab science courses; 6 hours in free electives; 3 hours of ENGL 342 Technical Writing, and 23 hours of General Education requirements.

Based on a student's mathematics background before entering the program, he/she may be required to take either the MATH 150 course or the MATH 120 and MATH 121 series in lieu of one or two free electives, respectively. If this is the case, students will complete a total of 121 semester hours.

### **Course Requirements for the B.S. in Computer Science with Concentration on Information Security**

- Meet the requirements of the Computer Science curriculum;
- Replace 9 hours of CSCI electives by 9 hours of Information Security core courses; the Information Security core course are CSCI 358, CSCI 445, and CSCI 496;
- Elect CJUS 116 Introduction to Criminal Justice as the social science elective

Students are encouraged to select Information Security elective course among CSCI 450, CSCI 451, CSCI 452, and CSCI 453 for other CSCI electives.

## **Minor in Computer Science**

The minor in computer science consists of a total of 18 credit hours. A planned sequence of five courses offered by the Engineering and Computer Science is required. The sequence of courses CSCI 101, CSCI 150, CSCI 151, CSCI 250, CSCI 251, CSCI 260 and CSCI 386 or CSCI 387 is required. In addition, one other computer science course at the 300 or 400 level is required. A student must earn a grade of “C” or better in all courses pursued towards fulfillment of the requirements for a minor in Computer Science

## DEPARTMENT OF MATHEMATICS AND ECONOMICS

- Chairperson:** Cheryl Adeyemi  
Hunter McDaniel, Room 213S,  
(804) 524-5920
- Professors:** Krishan Agrawal, Gerald Burton, Ceslav Ciobanu, Maxwell Eseonu,  
Dawit Haile, Mohammad Tabanjeh, Bourama Toni, Tariq Qazi
- Associate Professors:** Cheryl Adeyemi, Robert Wieman, Yongjin Lu.
- Assistant Professors:** Naja Farhat, Mulugeta Kahsai, Jing Zhang
- Instructors:** Sarab Alsheyab, Daniel Fritz, Eleanor Poarch-Wall, Melissa Watts, Andrew Wynn

The Department of Mathematics and Economics at Virginia State University offers course work leading to the Bachelor of Science degree in Mathematics and the Bachelor of Science degree in Economics. The department, in conjunction with the Center for Undergraduate Professional Education Programs, offers a teaching endorsement in Mathematics (6-12).

The mathematics curriculum offers concentrations in pure/applied mathematics, statistics, actuarial science and a minor in secondary education.

### Mission of the Department

The mission of the department is to provide academic programs that promote rigorous and relevant instruction, research, and advanced study, designed to develop a diverse, productive, and ethical population of graduates and lifelong learners equipped to effectively participate and compete in the national and global workforce and society.

### Objectives of the Department

#### MATHEMATICS PROGRAM OBJECTIVES:

1. **Experiential Learning:** It is anticipated that graduates of the VSU Mathematics Program will become involved in lifelong learning and interested in professional development opportunities, thus building a background for more advanced mathematics study.
2. **Employment:** A VSU Mathematics Program graduate is expected to be engaged in professional practice or in pursuit of advanced study in successful careers as mathematicians, statisticians and engineers in industry, private business and government service, or teach mathematics using technological pedagogical content knowledge.
3. **Scholarly Activities:** It is also anticipated that many of the graduates of the VSU Mathematics Program will attempt to promote research by offering technical and professional assistance and engaging in research activities for the advancement of science, technology, engineering and mathematics (STEM), and the improvement of teaching.

## ECONOMICS PROGRAM OBJECTIVES:

1. Graduates will engage in experiential learning activities such as internships and undergraduate research
2. Graduates of the program will be able to pursue graduate studies in Economics and other related fields.
3. The Economics program will increase the diversity of its applicants.
4. Graduates of the Economics program will complete their degrees within four years

## Student Organizations

The Department offers several student-oriented organizations: (1) Walter Johnson Mathematics Club which provides emphasis on topics and activities of interest to mathematics students, (2) the Kappa Mu Epsilon Mathematics National Honor Society (Virginia Alpha Chapter), which provides recognition for academic achievement in mathematics, and (3) a student chapter of the Mathematical Association of America (MAA), (4) Actuarial Science Club, (5) The VSU International Diplomacy & Economics Club, and (6) Omicron Delta Epsilon, the International Honor Society for Economics.

The Department also offers student membership in Omicron Delta Epsilon, the International Honor Society for Economics. Membership is open to all Economics majors with a minimum grade point average of 3.0.

## Bachelor of Science (B.S.) Degree in Mathematics

The Department offers five curricula of study or concentrations leading to the Bachelor of Science Degree (B.S.) in Mathematics.

- The Pure/Applied Mathematics concentration provides students with a foundation of pure and applied mathematics enabling employment opportunities or graduate study in mathematics.
- The Statistics concentration develops the proficiency in probability and statistics.
- The Actuarial Science concentration develops the background necessary for students to pursue opportunities as actuaries in the insurance industry, investment companies, banking, financial management and consulting firms. Emphasis is placed on the understanding of mathematical concepts and the application of statistical and probability procedures employed in the financial sectors.
- Minor in Secondary Education Program prepares students to obtain a teaching endorsement in mathematics at the secondary school level.

\*\* Students who wish to double major need to follow the VSU double major procedure and will need to meet with the coordinator of the undergraduate mathematics program.

## Minor in Mathematics

The minor in mathematics consists of five courses offered by the Department of Mathematics and Economics. The calculus sequence; MATH 260, MATH 261, and MATH 360 is required. In addition two more courses at the 300 level or above may be selected from mathematics courses. Students must earn a grade of “C” or better in all courses pursued towards fulfillment of the requirement.

## Minor in Economics

The minor in Economics is designed to give students from other programs in the University the opportunity to diversify and complement their educational experience through a minor in economics. It consists of a minimum of 18 credit hours: (12 credit from core course –ECON 210, ECON 211, ECON 310, ECON 320 and 6 elective credits from Economics electives.

## MATHEMATICS COURSE DESCRIPTIONS

### **MATH 112 BASIC MATHEMATICS I- 3 semester hours**

Problem solving, real numbers, algebraic expressions, linear equations, systems of linear equations, proportions, geometry, graphs of linear functions, mathematics of finance.

**Prerequisite: Two units of high school mathematics and placement criteria**

### **MATH 113 BASIC MATHEMATICS II - 3 semester hours**

The second part of a basic mathematics sequence. Sets, logic, probability and statistics.

**Prerequisite: MATH 112 Basic Mathematics I**

### **MATH 120 COLLEGE ALGEBRA - 3 semester hours**

A pre-calculus course in algebra. Functions and their graphs, transformation of functions, polynomial, rational, exponential and logarithmic functions, systems of equations; applications of these algebraic concepts to other disciplines.

### **MATH 121 TRIGONOMETRY - 3 semester hours**

Exponential and logarithmic functions, trigonometric functions, analytic trigonometry, and applications of trigonometry.

**Prerequisite: MATH 120 College Algebra**

### **MATH 122 FINITE MATHEMATICS - 3 semester hours**

Solving systems of Linear Equations and Inequalities, Introduction to Matrices and Linear Programming, Mathematics of Finance, Sets, Counting and Probability.

**Prerequisite: MATH 120 College Algebra**

### **MATH 130 NUMBER AND OPERATIONS - 3 semester hours**

ONLY for students seeking certification to reach PreK - 3/PreK - 6

Examines number systems and operations, elementary number theory, concepts of integers and rational number, proportions, logic, computational algorithms, and current techniques in a problem-solving environment. Will include student investigations and hands-on activities.

**Prerequisites: Two units of high school mathematics and placement criteria**

### **MATH 131 ALGEBRA AND FUNCTIONS - 3 semester hours**

ONLY for students seeking certification to teach PreK - 3/PreK - 6

Examines basic algebraic operations, linear and quadratic equations, linear systems of equations and inequalities, algebraic and trigonometric functions in the context of modeling and various representations of functions (graphical, tabular, and symbolic). Will include student investigations and hands-on activities.

**Prerequisites: MATH 130 Number and Operations**

### **MATH 150 PRECALCULUS - 4 semester hours**

The purpose of this course is to provide students with the background necessary to begin the formal calculus sequence. Topics include: Functions; Polynomial and rational functions; Inverse functions; Logarithmic and exponential functions; Trigonometric functions; and an introduction to Conic sections. Students successfully completing this course cannot take MATH 120 or MATH 121 for credit.

**Prerequisites: Two units of high school mathematics and placement criteria.**

### **MATH 212 INTRODUCTION TO CALCULUS - 3 semester hours**

Calculus for Non-Science and Non-Mathematics majors. Fundamental concepts of limits, continuity, derivatives and integrals of functions and their application to problems in various disciplines. This course cannot be taken as a Mathematics elective by Mathematics majors.

**Prerequisites: MATH 120 College Algebra**

**MATH 230 GEOMETRY AND MEASUREMENT - 3 semester hours**

ONLY for students seeking certification to reach PreK - 3/PreK - 6

A basic study of properties and relationships of polygons and polyhedral, transformation geometry, coordinate geometry, construction, deductive and inductive reasoning, the processes of measurement through geometric investigations, and an introduction to non-Euclidean geometries. This course does not satisfy the requirements of MATH 340.

**Prerequisites:** MATH 131 Algebra and Functions or its equivalent

**MATH 260 CALCULUS I - 4 semester hours**

Analytic Geometry (introduction to conic sections), review of functions and their graphs, limit and rate of change, continuity, derivatives, derivatives of trigonometric functions, chain rule, implicit differentiation, higher derivatives, related rates, applications of differentiation: maximum and minimum values, The Mean Value Theorem, the first and second derivative tests, optimization problems, Antiderivatives, areas, definite integral, Fundamental Theorem of Calculus, indefinite integrals, areas between curves (in the Cartesian Plane), substitution rule

**Prerequisite:** MATH 150 Precalculus or MATH 121 Trigonometry

**MATH 261 CALCULUS II - 4 semester hours**

Techniques of integration, integration by parts, trigonometric substitutions, integration of rational functions, table of integration, transcendental functions and their inverses, applications of integration, Conic sections and polar coordinates, indeterminate forms, improper integrals, Taylor's theorem, L'Hopital's rule, Taylor's polynomials, sequences and series, absolute and conditional convergence, differentiation and integration of power series,

**Prerequisites:** MATH 260 Calculus I

**MATH 284 DISCRETE MATHEMATICS I - 3 semester hours**

Binary number systems; computer codes; computer arithmetic; logic truth tables; sets and relations; Boolean algebra; logic gates; simplifications of logic circuits, graphs, and directed graphs equivalence relations.

**Prerequisite:** MATH 120 College Algebra

**MATH 285 DISCRETE MATHEMATICS II - 3 semester hours**

Duality, mathematical induction and contradiction, recurrence relations, posets and sorting, vectors and matrices, planar and non-planar graphs, networks, error propagation, combinatorics, circuits, lattices, algebraic systems and machines, algorithms for flowcharting and programming.

**Prerequisite:** MATH 284 Discrete Mathematics I

**MATH 290 FOUNDATIONS OF MATHEMATICS - 3 semester hours**

A study of the development of mathematical concepts and of the great mathematicians who introduced these concepts; development of integral and differential calculus, development of concepts in modern algebra and the use of rigorous set theory as the foundation for analysis, algebra and topology.

**Prerequisite:** MATH 261 Calculus II or concurrent with MATH 261

**MATH 292 INTRODUCTION TO NUMBER THEORY - 3 semester hours**

Divisibility theory and prime numbers, Euclidean algorithm, congruence, residue classes. Euler's function, primitive roots, Chinese remainder theorem. Quadratic residues, continued fractions, and Gaussian integers.

**Prerequisites:** MATH 150 Precalculus or equivalent

**MATH 294 MATHEMATICS OF FINANCE I - 3 semester hours**

Interest rates, accumulated function, annuities, amortization schedules and sinking funds, bonds and related securities, depreciation, yield curve, duration, convexity, and immunization.

**Prerequisite:** MATH 120 College Algebra or permission of the instructor

**MATH 295 MATHEMATICS OF FINANCE II - 3 semester hours**

Survival distributions and life tables, life insurance, life annuities, benefit premiums, benefit reserves, multiple life functions, multiple decrement models.

**Prerequisite(s):** MATH 294 Mathematics of Finance I and  
STAT 330 Introduction to Probability and Statistics

**MATH 298 Internship in Mathematics I - 1 semester hour**

The internship allows students to obtain practical work experience related to mathematics under closely supervised conditions for approximately 45 clock hours. Students must complete a Memorandum of Agreement prior to commencing the internship. Course may be taken more than once for credit but no more than 3 times.

**Prerequisite:** Junior standing and permission of department advisor

**MATH 299 INTRODUCTION TO PROBLEM SOLVING SEMINAR - 3 semester hours**

A seminar-based approach which examines areas including the appropriate uses of technology, cooperative learning projects, problem-solving, and mathematics content on the state mandated licensing examination for secondary mathematics. Mathematical topics will include algebra and number theory, measurement, trigonometry, functions, and calculus.

**Prerequisite(s):** MATH 261 – Calculus II

**MATH 317 STOCHASTIC PROCESSES - 3 semester hours**

Discrete probability models. Review of discrete probability, conditional expectations, and simulation techniques for discrete random variables. Discrete time stochastic processes: random walks and Markov chains with applications to Monte Carlo simulation and mathematical finance. Continuous models. Review of continuous probability and simulation of continuous random variables. Continuous time stochastic processes: Poisson process, Markov chains, Brownian motion, including simulation of these processes. Applications to Black-Scholes model, insurance and ruin problems and related topics.

**Prerequisites:** MATH 360 Calculus III, STAT 340 or STAT 330 Introduction to Probability and Statistics

**MATH 321 COMBINATORICS - 3 semester hours**

Techniques for counting and enumeration including recurrence relations, generating functions, the principle of inclusion and exclusion, and Polya's enumeration formula. Graph theory, digraphs and networks. Combinatorial design, and combinatorial games.

**Prerequisites:** MATH 261 Calculus II, Math 284 Discrete Mathematics

**MATH 325 LINEAR ALGEBRA - 3 semester hours**

Systems of linear equations, matrices, determinants, vector spaces, bases, dimensions, linear independence, eigenvalues and eigenvectors, and linear transformations.

**Prerequisite:** MATH 260 Calculus I

**MATH 335 MATHEMATICAL MODELING - 3 semester hours**

Formulation and analysis of mathematical models with applications to Biology, Finance, Engineering and other areas of science. Examples include; population dynamics, predator-prey, epidemiology, enzyme kinetics, and diffusion and chemical reactions. The necessary mathematical and scientific background will be developed as needed. Students will participate in formulating models as well as in analyzing them. This course includes the use of a computer algebra system, such as Mathematica or MATLAB.

**Prerequisite:** MATH 260 Calculus I

**MATH 340 MODERN GEOMETRY I - 3 semester hours**

A study of the foundations of Euclidean geometry including transformations deductive and inductive reasoning and an introduction to non-Euclidean geometries.

**Prerequisite:** MATH 120 College Algebra

**MATH 341 MODERN GEOMETRY II - 3 semester hours**

Euclidean geometry, logic and incidence geometry, Hilbert's axioms, projective geometry, neutral geometry, parallel postulate - history and independence, Non-Euclidean geometry, geometric transformations, hyperbolic geometry and philosophical implications.

**Prerequisite:** MATH 340 Modern Geometry

**MATH 348 INTRODUCTION TO GAME THEORY - 3 semester hours**

This course is an introduction to game theory, the study of strategic behavior among parties having opposed, mixed or similar interests. The course emphasizes the identification and analysis of archetypal strategic situations frequently occurring in bargaining situations. Ideas such as dominance, backward induction, Nash equilibrium, evolutionary stability, commitment, credibility, asymmetric information, adverse selection, and signaling are discussed.

**Prerequisite:** MATH 260 Calculus I

**MATH 350 DIFFERENTIAL EQUATIONS - 3 semester hours**

Solutions of ordinary differential equations with applications to science and engineering. Linear differential equations with constant coefficients using operator methods. Series solutions and applications.

**Prerequisite:** MATH 261 Calculus II

**MATH 352 INTRODUCTION TO MATHEMATICAL BIOLOGY - 3 semester hours**

This course is designed to develop mathematical models in biology and study the behavior of such models using numerical techniques and review the mathematical concepts behind many important biological principles. Topics will be drawn from conversation biology, genetics, and physiology. Mathematics and computational methods to be reviewed include functions in biology, difference and differential equations, integration as needed, probability, numerical matrix algebra and curve fitting software. Students can receive credit either for MATH 352 or BIOL 352 but not for both.

**Prerequisites:** MATH 260 Calculus I, BIOL 120 Principles of Biology I and BIOL 121 Principles of Biology II, or consent of instructor.

**MATH 355 DYNAMICAL SYSTEMS AND CHAOS - 3 semester hours**

Existence and uniqueness for solutions of ordinary differential equations and difference equations, linear systems, nonlinear systems, stability, periodic solutions, bifurcation theory.

**Prerequisite:** MATH 350 Differential Equations

**MATH 360 CALCULUS III - 4 semester hours**

Vectors in the plane and in space, and cylindrical and spherical coordinates, Vector functions, vector differentiation, parametric equations, differentiation of functions of two and three variables, multiple integration, the triple integral, introduction to vector analysis, line and surface integrals, Green's and Stoke's Theorems.

**Prerequisite:** MATH 261 Calculus II

**MATH 380 SEMINAR IN ACTUARIAL SCIENCE - 3 semester hours**

Application of the fundamental probability tools to problems encountered in actuarial science. Risk management and insurance, corporate finance, price theory, actuarial models, loss models, simulation and survival models. Course serves as the capstone course in the Actuarial Science track.

**Corequisite:** MATH 295 Mathematics of Finance II

**MATH 392 INTRODUCTION TO LINEAR PROGRAMMING - 3 semester hours**

Matrices, vectors and vector spaces, linear programming; simplex method; duality, degeneracy, game theory, applications to transportation, warehouse, nutrition, and investment problems.

**Prerequisite:** MATH 260 Calculus I

**MATH 395 MATHEMATICS PROBLEM SOLVING SEMINAR - 3 semester hours**

A seminar-based approach which examines areas including the appropriate uses of technology, cooperative learning projects, problem-solving, mathematics content on the state mandated licensing examination for Secondary Mathematics, and presentations by experienced mathematics educators and business leaders. Mathematical topics will include Algebra and Number Theory, Measurement, Geometry, Trigonometry, Functions, Calculus, Data Analysis and Statistics, Probability, Matrix Algebra and Discrete Mathematics. Students must register for and take the state mandated licensing examination for Secondary Mathematics as a requirement of the course. (May not be used as a mathematics elective).

**Prerequisite:** Admitted to Teacher Education Candidacy and MATH 299  
STAT 330 Introduction to Probability and Statistics

**MATH 398 Internship in Mathematics II - 3 semester hours**

The internship allows students to obtain practical work experience related to mathematics under closely supervised conditions for approximately 135 clock hours. Students must complete a Memorandum of Agreement prior to commencing the internship. Course may be taken more than once for credit but no more than 2 times.

**Prerequisite:** Junior standing and permission of department advisor

**MATH 400 ADVANCED CALCULUS I - 3 semester hours**

Introduction to inductive and deductive reasoning, introduction to proofs, proofs of theorems involving sets, functions and inverse functions, composite functions, Study limit and continuity using delta-epsilon approach, limit theorems, properties of continuous functions.

**Prerequisite:** MATH 261 Calculus II, MATH 290 FOUNDATIONS OF MATHEMATICS

**MATH 401 ADVANCED CALCULUS II - 3 semester hours**

Uniform continuity, differentiability, line and surface integrals, convergence of series, uniform convergence, improper integrals, introduction to completeness, compactness and connectedness; Riemann - Stieltjes Integral.

**Prerequisite:** MATH 400 Advanced Calculus I

**MATH 415 MATRIX THEORY - 3 semester hours**

Systems of linear equations, matrix algebra, matrix factorization, vector and matrix norms, condition numbers, singular values, diagonalization and similar matrices, and Jordan canonical form. Unitary and orthogonal transformations, and the eigenvalue problems.

**Prerequisite:** MATH 325 Linear Algebra

**MATH 417 NUMERICAL LINEAR ALGEBRA - 3 semester hours**

Numerical methods for solution of linear systems, perturbation theory and linear least square problem, QR factorization, conditioning and stability of linear systems, iterative methods for linear systems, symmetric eigenvalue Technique problem and singular value decomposition, non-symmetric eigenvalue problems, discrete and fast Fourier transform.

**Prerequisite:** MATH 325 Linear Algebra

**MATH 425 MODERN ALGEBRA I - 3 semester hours**

Abstract groups, subgroups, cyclic groups, groups of symmetries, even and odd permutations, the alternating group cosets, normal subgroups, Lagrange's theorem, quotient groups, solvable groups, mappings, group homeomorphisms, isomorphism.

**Prerequisite:** MATH 261 Calculus II, MATH 290 FOUNDATIONS OF MATHEMATICS

**MATH 426 MODERN ALGEBRA II - 3 semester hours**

Rings, ring homeomorphisms, subrings, ideals, quotient rings, integral domains, polynomial extensions of rings, fields and field extensions.

**Prerequisite:** MATH 425 Modern Algebra I

**MATH 429 APPROXIMATION THEORY - 3 semester hours**

Best approximation in normal spaces, approximation by algebraic polynomials and Weierstrass theorem, trigonometric polynomials, uniform approximation by trigonometric polynomials, Chebyshev polynomials, characterization of the best approximation, and orthogonal polynomials.

**Prerequisite:** MATH 400 Advanced Calculus I

**MATH 430 OPTIMIZATIONS THEORY - 3 semester hours**

Optimization fundamentals, unconstrained and constrained optimization. Lagrange multipliers, nonlinear programming algorithms and convex optimization.

**Prerequisite:** MATH 360 Calculus III

**MATH 432 THEORY OF FUNCTIONS - 3 semester hours**

Brief introduction of Complex numbers and its properties, Elementary functions of Complex variable, Analytic functions and its basic properties, Contour integration, Cauchy's Theorem and Integral formula, Maximum modulus principles, Series representation of analytic functions, Taylor's Theorem, Classification of singularities, Laurent series, Calculation of residues.

**Prerequisite:** MATH 360 Calculus III, MATH 400 Advanced Calculus I

**MATH 445 INTRODUCTION TO POINT SET TOPOLOGY - 3 semester hours**

Metric spaces, topological spaces, separation axioms, connectedness, compactness, homeomorphisms and product spaces.

**Prerequisite:** MATH 425 Modern Algebra I

**MATH 452 NUMERICAL ANALYSIS - 3 semester hours**

A survey of modern numerical methods with emphasis on those best suited for digital computer application. Polynomial interpolation, iterative methods for solving simultaneous linear and non-linear equations, solutions of algebraic equations, solutions to differential equations.

**Prerequisite:** MATH 261 Calculus II

**MATH 470 HISTORY OF MATHEMATICS - 3 semester hours**

An introduction to the chronological history of mathematics and the mathematics who made significant contributions, emphasizing the evolution of basic concepts ranging from primitive number systems through the foundations of set theory. Topics include development of Mathematical concepts in ancient societies, pre-Calculus and Calculus of the seventeenth century; and a historical review of mathematical analysis, probability, statistics, algebra, number theory and geometry.

**Prerequisite:** MATH 290 Foundations of Mathematics

**MATH 473 DISCRETE WAVELET TRANSFORMATIONS AND APPLICATIONS - 3 semester hours**

Introduction to digital images, complex numbers and Fourier series, convolution and filters, the Haar wavelet transformation, Daubechies wavelet transformations, wavelet shrinkage.

**Prerequisites:** MATH 325 Linear Algebra and MATH 261 Calculus II

**MATH 475 INTRODUCTION TO DIFFERENCE EQUATIONS - 3 semester hours**

Dynamics of first-order differences equations, equilibrium points and their stability, periodic points, cycles and their stability, difference equations associated to differential equations, Euler's method, differences calculus, linear differences equations, first and higher order, homogeneous with constant coefficients, non-homogeneous by the methods of undetermined coefficients, limiting behavior of solutions, nonlinear equations transformable to linear difference equations.

**Prerequisites:** MATH 325 Linear Algebra, MATH 350 Differential Equations

**MATH 490 GRAPH THEORY - 3 semester hours**

Introduction to graphs and digraphs, introduction to algorithms, tree, networks, Eulerian and Hamiltonian graphs, planar graphs, coloring of graphs.

**Prerequisites:** MATH 284 Discrete Mathematics I

**MATH 493 TOPICS IN MATHEMATICS - 3 semester hours**

Topics in mathematics not covered in ordinary courses. The course may be repeated once for credit if content is different.

**Prerequisite:** Consent of instructor

**MATH 495 MATHEMATICS SEMINAR - 3 semester hours**

Required of all senior mathematics majors. A capstone course designed (1) review, unify, and extend concepts and skills developed in previous mathematics courses; (2) give students additional experience in presenting mathematical concepts in oral and written form and improving problem-solving skills; (3) assess students' comprehensive mathematical knowledge through the administration of a departmental Field Test. Students will be expected to achieve a satisfactory level of performance on the Field Test in order to be eligible for graduation.

**Prerequisite:** Senior academic standing or by permission by instructor

**MATH 499 GRE MATHEMATICS REVIEW - 3 semester hours**

Whole numbers, fractions, decimals, percent's, signed numbers, averages and medians, powers, exponents and roots, algebraic expressions, equations, verbal problems, counting problems, ratio and proportions, sequence and progressions, inequalities, lines, polygons, tri-angles, quadrilaterals, circles, area and perimeter, coordinate geometry, tables, circle, line and bar graphs, cumulative graphs, analytical reasoning tactics, and logical reasoning tactics. A considerable part of the course will be devoted to practice tests similar to quantitative tests of GRE in order to develop the problem-solving and test-taking techniques required.

## STATISTICS

**STAT 210 ELEMENTARY STATISTICS - 3 semester hours**

An introductory statistics course without a calculus prerequisite. Presentation of data, frequency distributions, descriptive statistics, elementary concepts of probability, random variables, binomial and normal distributions, sampling procedures, student's t-test, linear correlation. Interpretation of examples of data which occur in daily life. This course cannot be taken as a mathematics elective by mathematics majors.

**Prerequisites:** MATH 113 Basic Mathematics  
or MATH 120 College Algebra, or  
MATH 131 Algebra and Functions

**STAT 211 ELEMENTARY STATISTICS II - 3 semester hours**

An applied statistics course designed for students who have some background in college algebra. Sampling of attributes, comparison of several samples, one-way analysis of variance, sign test, median test, Kruskal-Wallis test and test for randomness, simple regression analysis and test of correlation coefficients. Some use of Statistical packages for the Social Sciences.

**Prerequisite:** STAT 210 Elementary Statistics I or equivalent

**STAT 330 INTRODUCTION TO PROBABILITY AND STATISTICS - 3 semester hours**

An introductory course in probability and statistics with an elementary calculus prerequisite. Elementary descriptive statistics, basic probability rules, conditional probability, independence, Bayes' theorem, discrete and continuous probability distributions, probability density functions, binomial, Poisson, hypergeometric, negative binomial, geometric and normal distributions.

**Prerequisite:** MATH 261 Calculus II

**STAT 380 PROBABILITY AND STATISTICS I - 3 semester hours**

Mathematical derivations, computational formulas, and applications and interpretations associated with the techniques of probability theory and elementary statistical inference will be emphasized. Moment-generating functions, basic sampling distribution theory, t and chi-square distributions, one-sample estimation and tests of hypotheses.

**Prerequisites:** MATH 360 Calculus III; STAT 330 Introduction to Probability and Statistics

**STAT 382 INTRODUCTION TO SAMPLING METHODS - 3 semester hours**

A course that presents the basic ideas of sampling: random, stratified, systematic and cluster sampling, ratio and regression estimates, estimation of sample size, sampling methods in social, economic and biological surveys, sources of error in surveys.

**Prerequisite: STAT 380 Probability and Statistics I**

**STAT 385 ANALYSIS OF VARIANCE - 3 semester hours**

A survey of the theory, methodology, and practical applications of analysis of variance (ANOVA). Topics will include: one-factor and two-factor ANOVA; multiple comparisons; two-factor and three-factor balanced factorial designs with interactions; random, fixed and mixed-effect models; contrasts and confounding; and the regression approach to ANOVA. **Prerequisite: STAT 380 Probability and Statistics I**

**STAT 410 ADVANCED STATISTICAL METHODS - 3 semester hours**

A course designed for students who plan to apply statistical methods in the context of research problems in social sciences, natural sciences, agriculture and education. Uses of computers and packaged computer programs are emphasized. **Prerequisite: STAT 380 Probability and Statistics II**

**STAT 480 PROBABILITY AND STATISTICS II - 3 semester hours**

A course emphasizing the statistical techniques which are useful in the treatment of multiple samples. Topics include the properties of joint discrete and continuous probability distributions, conditional and marginal distributions, covariance, independent random variables, estimation and hypothesis testing of population parameters in the two-sample case, chi-square tests, and simple linear regression and correlation.

**Prerequisite: STAT 380 Probability and Statistics I**

**STAT 481 NONPARAMETRIC STATISTICS - 3 semester hours**

A course which examines statistical techniques which are applicable even if the form of the sampled population is unknown. Wilcoxon rank-sum test, Mann-Whitney U-test, sign test, Wilcoxon signed-rank test, tests for randomness, Spearman's correlation, Kolmogorov-Smirnov statistics, Turkey's quick test, Friedman and Cochran's test, computer programs.

**Prerequisite: STAT 380 Probability and Statistics I**

**STAT 482 APPLIED MULTIVARIATE STATISTICS - 3 semester hours**

A course in multivariate methods using matrix algebra and applied statistics to analyze several correlated measurements made on each experimental unit. Multivariate normal distribution, estimation and hypotheses testing in multiple regression, Hotelling's T, one-way multivariate analysis of variance, introduction to discriminant and factor analysis, principal components and canonical correlations. Multivariate analysis programs from BMD and SPSS will also be discussed.

**Prerequisite: STAT 410 Advanced Statistical Methods**

**STAT 484 APPLIED PROBABILITY - 3 semester hours**

A course designed to apply probability theory to the study of phenomena in engineering, management science, operations research, and the physical and social sciences. Markov's inequality, conditional expectation, Markov chains, Chapman-Kolmogorov equation, interarrival and waiting time distributions.

**Prerequisite: STAT 480 Probability and Statistics II**

**STAT 490 PROBABILITY THEORY - 3 semester hours**

A rigorous development of the theory of probability, emphasizing the axiomatic development of the subject. Formal probability systems, conditional probability, sequences of events, independence of events, random variables, probability density and distribution functions, joint distributions, independence of random variables, functions and transformations of random variables, fundamental limit theorems.

**Prerequisites: At least two 400-level statistics courses or consent of the instructor**

## COGNATE COURSES

### **MATH 280 DISCRETE MATHEMATICS FOR COMPUTER SCIENTISTS**

#### **3 semester hours**

The purpose of this course is to introduce Fundamental techniques in discrete mathematics for application in computer science. Sets, mathematical logic, proof techniques, relations, functions, mathematical induction, counting principle, and analysis of algorithms.

**Prerequisite:** MATH 120 College Algebra

### **STAT 340 PROBABILITY AND STATISTICS FOR COMPUTER -3 semester hours**

Introduction to the concepts of probability, random variables, estimation, hypothesis testing, regression, and analysis of variance with emphasis on application.

**Prerequisites:** MATH 261 Calculus II

## MATHEMATICS WITH A MINOR IN SECONDARY EDUCATION (6-12)

### **MAED 402 STUDENT TEACHING IN MATHEMATICS - 3 semester hours**

This course is designed to provide supervision in the content area for pre-service secondary mathematics candidates.

**Prerequisite:** Departmental Approval

### **MAED 460 THE TEACHING OF MATH IN ELEMENTARY SCHOOLS - 3 semester hours**

Methods, materials, and experiences will be provided to equip the student to teach mathematics in a variety of settings, such as self-contained, open or departmentalized class environments at the early childhood and elementary levels. The activities of the course will develop techniques and strategies of teaching concepts associated with sets, number, numeration systems, intuitive geometry, arithmetic operation, mensuration, functions and relations, graphs, spatial relations, logic number theory and patterns, probability and statistics. Concepts from the psychology of learning will be explored.

**Prerequisite:** MATH 113 Basic Mathematics II or MATH 121 Trigonometry

### **MAED 473 THE TEACHING OF MATHEMATICS IN SECONDARY SCHOOLS -**

#### **3 semester hours**

A study of modern instructional strategies for teaching, planning and directing mathematics learning in secondary schools.

**Prerequisite:** EDUC 201 Introduction to Teaching I, EDUC Introduction to Teaching II

### **Minor Electives\* (18 credits)**

Students can minor in any field outside their major. If students choose no minor, then the (18 credits) can be replaced by restricted electives within the students' major area.

**Secondary Education Minor:** IDST 200, EDUC 315, EDUC 401, SPED 403, EDUC 427, MATH 470. To receive the secondary teaching endorsement, students must pass the Commonwealth of Virginia mandated professional examinations. To earn a minor in secondary education, students must complete the 18 credit hours as well as satisfy all of the requirements of the Virginia Department of Education.

### **Free Electives\*\* (15 credit hours)**

**Math/Stat/Actuarial:** Choose any 15 credit hours from any discipline(s).

**MathEd:** EDUC 201(2 credits), EDUC 202(2 credits), EDUC 424(2 credits), EDUC 402(9 credits).

### **Restricted Electives\*\*\* (12 credit hours)**

MATH 285, MATH 292, MATH 294, MATH 295, MATH 317, MATH 321, MATH 335, MATH 340, MATH 341, MATH 348, MATH 355, MATH 380 (for Actuarial concentration only), MATH 392, MATH 401, MATH 415, MATH 417, MATH 426, MATH 429, MATH 430, MATH 432, MATH 445, MATH 452, MATH 473, MATH 475, MATH 490, MATH 493, STAT 380, STAT 382, STAT 385, STAT 410, STAT 480, STAT 481, STAT 482, STAT 484, STAT 490, CSCI electives.

(Required for MathEd only: MATH 299, MAED 473, MAED 402, MATH 340)

### **Double Major**

Students who wish to double major in mathematics will have to complete the following credits hours in which some will be cross listed for both majors.

(36 credits) of core courses in mathematics, (35 credits) of GE requirements, (36-42 credits) for core courses in the second major, and (7-13 credits) for other requirements (can be chosen from mathematics or from the student's second major).

## **ECONOMICS**

### **Course Descriptions**

#### **ECON 100 BASIC ECONOMICS - 3 semester hours**

It is designed to cover basic microeconomics and macroeconomics for those not planning further course work in the field. Basic microeconomic and macroeconomic theories are used to explain the economic system, the institutions that make up the system and their functions.

#### **ECON 210 PRINCIPLES OF MICROECONOMICS - 3 semester hours**

It analyzes the price system and its functions in a market economy of distributing goods and services and allocating resources. Concepts include the examination of markets as they range from highly competitive to monopolistic.

#### **ECON 211 PRINCIPLES OF MACROECONOMICS - 3 semester hours**

It analyzes national and international economic problems, such as inflation, unemployment, productivity, economic growth, and the balance of trade. Particular attention is given to the role of government policy as it seeks to improve economic performance in these areas.

**Prerequisite:** ECON 210 Principles of Microeconomics or Permission of the instructor

#### **ECON 310 MICROECONOMICS - 3 semester hours**

It provides a foundation for understanding the basic organization and operation of the economy. The subject is developed from three aspects: demand analysis, theory of the firm, and market interaction.

**Prerequisite:** ECON 210 Principles of Microeconomics

#### **ECON 313 MANAGERIAL ECONOMICS - 3 semester hours**

It focuses on the application of economic method to planning and decision making within the firm with respect to profit maximization, market structure, and forecasting.

**Prerequisite:** ECON 210 Principles of Microeconomics

#### **ECON 320 MACROECONOMICS - 3 semester hours**

It examines the determinants of aggregate income and output, interest rates, prices, employment and the balance of payments, and the use of monetary and fiscal policies.

**Prerequisite:** ECON 211 Principles of Macroeconomic

#### **ECON 321 FINANCIAL MARKETS AND INSTITUTIONS - 3 semester hours**

It presents an analysis of financial instruments, markets, and institutions. Topics include the commercial banking system and the money expansion process, the Federal Reserve System, monetary theory and policy; and international finance.

**Prerequisite:** ECON 211 Principles of Macroeconomics

#### **ECON 330 ECONOMETRICS - 3 semester hours**

Microeconomics and macroeconomics theories are presented in an analytical and researchable format. Econometric theories and procedures are introduced with an emphasis on application through explaining and predicting various economic phenomena using econometric software.

**Prerequisite:** ISDS 260 Business Statistics or equivalent

#### **ECON 340 LABOR ECONOMICS - 3 semester hours**

Presents theories of the demand for labor, the supply of labor, unemployment, and wage determination. Related topics include investment in human capital, labor mobility, and unions and collective bargaining as they affect employment and earnings.

**Prerequisite:** ECON 211 Principles of Macroeconomics

**ECON 350 ECONOMIC DEVELOPMENT - 3 semester hours**

Examines and analysis alternative theories of economic development in less developed countries. Special emphasis is placed on factors such as capital formation, population growth, institutions, policies and planning for development.

**Prerequisite:** ECON 211 Principles of Macroeconomics

**ECON 366 ECONOMICS AND MINORITY GROUPS - 3 semester hours**

It examines and analyzes the economic problems and conditions of minority groups, including problems of the effects of numerous programs influencing that development; and strategies for economic and social changes.

**Prerequisite:** One semester of Economics or permission of the instructor

**ECON 411 INDUSTRIAL ORGANIZATION AND REGULATION -****3 semester hours**

It examines and analysis industrial organization and structure in terms of market strategies, pricing, and the determinants of the most efficient firm size. Analysis and investigation of the rationale for government regulation of firms and the resulting economic impact is also covered.

**Prerequisite:** ECON 211 Principles of Macroeconomics

**ECON 423 PUBLIC FINANCE - 3 semester hours**

Analyzes the economic effects of public expenditures, revenues, and indebtedness with reference to select tax and budgetary problems.

**Prerequisite:** ECON 211 Principles of Macroeconomics

**ECON 451 INTERNATIONAL ECONOMICS - 3 semester hours**

Deals with the study of the theories of causes of trade, directions of trade, and the gains from trade, balance of payments, foreign exchange, and current trade policies and problems including international financial reforms.

**Prerequisite:** ECON 310 Microeconomics, or the approval of the instructor

**ECON 455 COMPARATIVE ECONOMIC SYSTEMS -****3 semester hours**

Examines the economic life under alternative systems in the world today. Emphasis is placed on capitalism, socialism, communism and democratic socialism.

**Prerequisite:** ECON 211 Principles of Macroeconomics

**ECON 465 URBAN ECONOMICS - 3 semester hour**

Focuses on the economic functions of cities, metropolitan decentralization, urban growth and development, transportation, housing markets, urban renewal, local government finance, and poverty.

**Prerequisite:** ECON 211 Principles of Macroeconomics

**ECON 470 HISTORY OF ECONOMIC THOUGHT - 3 semester hours**

Surveys the development of economic thought and the advancement of economic analysis, including the physiocrats, classicists, marginalists, socialists, neoclassicists, institutionalists, and contemporary schools.

**Prerequisite:** ECON 211 Principles of Macroeconomics

**ECON 490 READINGS IN ECONOMICS - 3 semester hours**

Provides an opportunity for students to select topics not otherwise included in Economics course work. It requires intensive reading supervised by the instructor and reported on by the students.

**Prerequisite:** ECON 211 Principles of Macroeconomics and approval of instructor

**ECON 498 ECONOMICS INTERNSHIP - 3 semester hours**

Provides an opportunity for students to observe and be exposed to the application of economic theories and methods to practical work experience in a closely supervised environment.

**Prerequisite:** Junior standing and department approval.

**ECON 499 SEMINAR IN ECONOMICS - 3 semester hours**

This is a capstone course which a student must demonstrate the ability to choose a well-defined research topic or a case review under faculty advising then proceed to search for essential information and correct procedures for analysis, write-up, and presentation.

**Prerequisite: Senior standing**

**THE DEPARTMENT OF MATHEMATICS AND  
ECONOMICS  
Economics  
Bachelor of Science Degree in Economics**

			1st Sem	2nd Sem	Total Hours
<b>FRESHMAN YEAR</b>					
ENGL	110	Composition I	3	-	3
ENGL	111	Composition II	-	3	3
MATH	120	College Algebra and Trigonometry	3	-	3
MATH	122	Finite Mathematics	-	3	3
ASYM	130	Introduction to Microcomputers	3	-	3
HIST	122	United States History I	3	-	3
FOREIGN LANGUAGE			3	3	6
HPER (GE MENU)			-	2	2
NATURAL SCIENCE AND LAB			-	4	4
PHIL	140	Introduction to Philosophy	-	3	3
<b>Totals</b>			<b>15</b>	<b>18</b>	<b>33</b>
<b>SOPHOMORE YEAR</b>					
ACCT	200	Intro to Fin & Managerial Accounting	3	-	3
ECON	210	Principles of Microeconomics	3	-	3
ECON	211	Principles of Macroeconomics	-	3	3
STAT	210	Elementary Statistics I	3	-	3
MGMT	270	Legal Environment of Business	3	-	3
MATH	212	Introduction to Calculus	-	3	3
ENGL	201	Introduction Literature	3	-	3
ENGL	310	Advanced Communication Skills	-	3	3
NON-BUSINESS ELECTIVE			3	3	6
<b>Totals</b>			<b>15</b>	<b>15</b>	<b>30</b>
<b>JUNIOR YEAR</b>					
ECON	310	Microeconomics	3	-	3
ECON	320	Macroeconomics	-	3	3
ECON	321	Financial Markets and Institutions	3	-	3
FINC	350	Principles of Finance	-	3	3
MKTG	300	Principles of Marketing	3	-	3
NON-BUSINESS ELECTIVE			3	3	6
UPPER LEVEL LIBERAL ARTS ELECTIVE			3	6	9
<b>Totals</b>			<b>15</b>	<b>15</b>	<b>30</b>
<b>SENIOR YEAR</b>					
ECON	451	International Economics	3	-	3
ECON	470	Economic Thought	-	3	3
ECON	490	Readings in Economics	-	3	3
ECON 498 or ECON 499 Internship or Seminar in Economics -			3	-	3
ECONOMICS ELECTIVE			3	-	3
NON-BUSINESS ELECTIVE – Upper Level Non-Business Elective			3	3	6
UNRESTRICTIVE ELECTIVES – Upper Level Liberal Arts Elective			6	-	6
<b>Totals</b>			<b>15</b>	<b>12</b>	<b>27</b>
<b>TOTAL HOURS REQUIRED FOR GRADUATION</b>				<b>120</b>	

**DEPARTMENT OF MATHEMATICS AND ECONOMICS**  
**Mathematics with a Minor in Secondary Education**

		1st Sem	2nd Sem	Total Hours
<b>FRESHMAN YEAR</b>				
CSCI 150	Programming in	3	-	3
CSCI 151	Programming Lab	1	-	1
MATH 260	Calculus I	4	-	4
ENGL 110	Composition I	3	-	3
BIOL/CHEM/PHYS	Laboratory Science	4	-	4
IDST 100 (if needed)	Analytical Reading and Reasoning I	(2)	-	(2)
MATH 261	Calculus II	-	4	4
ENGL 111	Composition II	-	3	3
	Wellness/Health	-	2	2
	History Elective	-	3	3
BIOL/CHEM/PHYS	Laboratory Science	-	4	4
IDST 101 (if needed)	Analytical Reading and Reasoning II	-	(2)	(2)
<b>Totals</b>		<b>15</b>	<b>16</b>	<b>31</b>
<b>SOPHOMORE YEAR</b>				
MATH 360	Calculus III	4	-	4
MATH 284	Discrete Mathematics	3	-	3
EDUC 201	Intro to Teaching I	2	-	2
PSYC 212	Human Growth & Development	3	-	3
STAT 330	Intro to Prob & Stat	3	-	3
MATH 299	Intro Math Prob Solving Seminar	-	2	2
MATH 290	Foundations of Math	-	3	3
EDUC 202	Intro to Teaching II	-	2	2
IDST 200	Digital Media in Ed	-	3	3
	Literature Elective	-	3	3
	MATH/STAT Elective	-	3	3
<b>Totals</b>		<b>15</b>	<b>16</b>	<b>31</b>

<b>JUNIOR YEAR</b>				
MATH 325	Linear Algebra	3	-	3
	Foreign Language	3	-	3
MATH 395	Math Problem-Solving Seminar	3	-	3
MATH 470	History of Mathematics	3	-	3
EDUC 315	Data Driven Inst. Design	3	-	3
MATH 350	Differential Equations	-	3	3
MATH 340	Modern Geometry	-	3	3
	MATH/STAT Elective (300 or higher)	-	3	3
	Foreign Language	-	3	3
SPED 403	Classroom Management	-	3	3
<b>Totals</b>		<b>15</b>	<b>15</b>	<b>30</b>

<b>SENIOR YEAR</b>				
MATH 425	Modern Algebra	3	-	3
MATH 400	Advanced Calculus	3	-	3
MAED 473	Teaching Mathematics	3	-	3
EDUC 424	Critical Issues Ed	2	-	2
EDUC 427	Reading in the Content Area	3	-	3
EDUC 401	Student Teaching Seminar	-	3	3
EDUC 402	Student Teaching	-	9	9
MAED 402	Student Teaching in Math	-	3	3
<b>Totals</b>		<b>14</b>	<b>15</b>	<b>29</b>

**Total Semester Hours 121**

**DEPARTMENT OF MATHEMATICS AND ECONOMICS**  
**Bachelor of Science Degree – Mathematics/MATH Track**

		1st Sem	2nd Sem	Total Hour
<b>FRESHMAN YEAR</b>				
CSCI 150	Programming I	3	-	3
CSCI 151	Programming I Lab	1	-	1
MATH 150	Pre-calculus (elective)	4	-	4
ENGL 110	Composition I	3	-	3
BIOL/CHEM/PHYS	Laboratory Science	4	-	4
CSCI 250	Programming II	-	3	3
CSCI 251	Programming II Lab	-	1	1
MATH 260	Calculus I	-	4	4
ENGL 111	Composition II	-	3	3
BIOL/CHEM/PHYS	Laboratory Science	-	4	4
	<b>Totals</b>	<b>15</b>	<b>15</b>	<b>30</b>
<b>SOPHOMORE YEAR</b>				
MATH 261	Calculus II	4	-	4
MATH 290	Foundation of Math	-	3	3
MATH 284	Discrete Mathematics	3	-	3
	Literature Elective	3	-	3
	Wellness/Health	2	-	2
MATH 360	Calculus III	-	4	4
STAT 330	Intro to Probability and Stat	-	3	3
	Global Studies Elective	3	-	3
	Social Science Elective	-	3	3
	Humanities Elective	-	3	3
	<b>Totals</b>	<b>15</b>	<b>16</b>	<b>31</b>
<b>JUNIOR YEAR</b>				
	Elective (Minor)	3	-	3
MATH 325	Linear Algebra	3	-	3
	Math Elective	3	-	3
	Elective (Minor)	3	-	3
	Restricted Elective	3	-	3
	Restricted Elective	-	3	3
	Restricted Elective	-	3	3
	Elective (Minor)	-	3	3
MATH 350	Differential Equations	-	3	3
	History Elective	-	3	3
	<b>Totals</b>	<b>15</b>	<b>15</b>	<b>30</b>

<b>SENIOR YEAR</b>				
MATH 400	Advanced Calculus I	3	-	3
	Elective (Minor)	3	-	3
	Restricted Elective	3	-	3
	Elective (Minor)	3	-	3
MATH 425	Modern Algebra I	3	-	3
MATH 401	Advanced Calculus II	-	3	3
	Elective (Minor)	-	3	3
MATH 452	Numerical Analysis	-	3	3
MATH 432	Theory of Functions	-	3	3
MATH495	Math Seminar	-	3	3
<b>Totals</b>		<b>15</b>	<b>15</b>	<b>30</b>
<b>Total Semester Hours 121</b>				

\*MATH 280 could be taken in place of MATH 284

**DEPARTMENT OF MATHEMATICS AND ECONOMICS**  
**Bachelor of Science Degree – Mathematics/STAT Track**

		1st Sem	2nd Sem	Total Hours
<b>FRESHMAN YEAR</b>				
CSCI 150	Programming I	3	-	3
CSCI 151	Programming I Lab	1	-	1
MATH 150	Pre-calculus	4	-	4
ENGL 110	Composition I	3	-	3
BIOL/CHEM/PHYS	Laboratory Science	4	-	4
CSCI 250	Programming II	-	3	3
CSCI 251	Programming II Lab	-	1	1
MATH 260	Calculus I	-	4	4
ENGL 111	Composition II	-	3	3
BIOL/CHEM/PHYS	Laboratory Science	-	4	4
	<b>Totals</b>	<b>15</b>	<b>15</b>	<b>30</b>
<b>SOPHOMORE YEAR</b>				
MATH 261	Calculus II	4	-	4
MATH 290	Foundation of Math	-	3	3
MATH 284	Discrete Mathematics	3	-	3
	Literature Elective	3	-	3
	Wellness/Health	2	-	2
MATH 360	Calculus III	-	4	4
STAT 330	Intro to Probability and Stat	-	3	3
	Global Studies Elective	3	-	3
	Social Science Elective	-	3	3
	Humanities Elective	-	3	3
	<b>Totals</b>	<b>15</b>	<b>16</b>	<b>31</b>
<b>JUNIOR YEAR</b>				
	Elective (Minor)	3	-	3
MATH 325	Linear Algebra	3	-	3
	STAT Elective	3	-	3
	Elective (Minor)	3	-	3
STAT 380	Probability and Statistics I	3	-	3
	Restricted Electives	-	3	3
	Restricted Electives	-	3	3
	Elective (Minor)	-	3	3
STAT 385	Analysis of Variance	-	3	3
	History Elective	-	3	3
	<b>Totals</b>	<b>15</b>	<b>15</b>	<b>30</b>

<b>SENIOR YEAR</b>				
MATH 400	Advanced Calculus I	3	-	3
	Elective (Minor)	3	-	3
	Restricted Electives	3	-	3
STAT 480	Probability and Statistics II	3	-	3
MATH 425	Modern Algebra I	3	-	3
	Restricted Electives	-	3	3
	Elective (Minor)	-	3	3
	Elective (Minor)	-	3	3
STAT 481	Non-Parametric Statistics	-	3	3
MATH 495	Math Seminar	-	3	3
Totals		15	15	30

**Total Semester Hours 121**

\*MATH 280 could be taken in place of MATH 284

**DEPARTMENT OF MATHEMATICS AND ECONOMICS**  
**Bachelor of Science Degree – Actuarial Science Track**

		<b>Semester Hours</b>		
		<b>1st Sem</b>	<b>2nd Sem</b>	<b>Total Hours</b>
<b>FRESHMAN YEAR</b>				
CSCI 150	Programming I	3	-	3
CSCI 151	Programming I Lab	1	-	1
MATH 260	Calculus I	4	-	4
ENGL 110	Composition I	3	-	3
BIOL/CHEM/PHYS	Laboratory Science	4	-	4
CSCI 250	Programming II	-	3	3
CSCI 251	Programming II Lab	-	1	1
MATH 261	Calculus II	-	4	4
ENGL 111	Composition II	-	3	3
BIOL/CHEM/PHYS	Laboratory Science	-	4	4
	<b>Totals</b>	<b>15</b>	<b>15</b>	<b>30</b>
<b>SOPHOMORE YEAR</b>				
MATH 360	Calculus III	4	-	4
MATH 294	Financial Mathematics I	3	-	3
STAT 330	Intro to Probability and Stat	3	-	3
	Literature	3	-	3
	Wellness/Health	2	-	2
MATH 295	Financial Mathematics II	-	3	3
STAT 380	Probability and Statistics I	-	3	3
	Global Studies	-	3	3
	Social Science	-	3	3
	Restricted Elective	-	3	3
	<b>Totals</b>	<b>15</b>	<b>15</b>	<b>30</b>
<b>JUNIOR YEAR</b>				
	Elective (Minor)	3	-	3
MATH 325	Linear Algebra	3	-	3
	STAT Elective	3	-	3
	Elective (Minor)	3	-	3
	Humanities	3	-	3
	Restricted Elective	-	3	3
MATH 380	Actuarial Seminar	-	3	3
	Elective (Minor)	-	3	3
STAT 385	Analysis of Variance	-	3	3
	History	-	3	3
	<b>Totals</b>	<b>15</b>	<b>15</b>	<b>30</b>

<b>SENIOR YEAR</b>				
MATH 400	Advanced Calculus I	3	-	3
	Elective (Minor)	3	-	3
	Restricted Elective	3	-	3
STAT 480	Probability and Statistics II	3	-	3
MATH 425	Modern Algebra I	3	-	3
	Restricted Elective	-	3	3
	Elective (Minor)	-	3	3
	Elective (Minor)	-	3	3
STAT 481	Non-Parametric Statistics	-	3	3
	Restricted Elective	-	3	3
<b>Totals</b>		<b>15</b>	<b>15</b>	<b>30</b>

**Total Semester Hours 120**

## DEPARTMENT OF TECHNOLOGY

<b>Chairperson:</b>	Benedict Uzochukwu Engineering & Technology Building, Room 200G (804) 524-1127 buzochukwu@vsu.edu
<b>Professors:</b>	Ephrem Eyob, Ben Nwoke, Coray Davis,
<b>Research Professor:</b>	Raymond Boykin
<b>Associate Professors:</b>	Benedict Uzochukwu, Nasser Rashidi
<b>Assistant Professors:</b>	Heng Li, Peng Cheng, Mulugeta Kahsai
<b>Instructor(s):</b>	Kwame Adom, Lessie Oliver-Clark, Mark Westbrook

### Description of Department

The Department of Technology consists of three degrees programs namely: B.S. in Electronics Engineering Technology (ELET), B.S. in Mechanical Engineering Technology (MCET), and B.S. in Information Logistics Technology (INLT). The department also offers Graduate Certificate program in Project Management, an Undergraduate Certificate program in Enterprise Systems as well as a Wireless Technology Certificate program.

### Mission of Department

The Department of Technology has the mission of promoting and sustaining the Bachelor of Science degree programs, the Graduate Certificate in Project Management, the Undergraduate Certificate in Enterprise Systems and the Wireless Technology, which meets the needs of industry and society, particularly, in the Central/Southside Commonwealth of Virginia.

### Engineering Technology

Engineering Technologists work very closely with other members of the engineering team consisting of scientists, engineers, technicians and artisans. The engineering technologist typically organizes the manpower, materials and equipment to design, construct, operate, maintain and manage technical engineering projects.

Engineering Technology consists of Electronics Engineering Technology (ELET) and Mechanical Engineering Technology (MCET). These two engineering technology programs are accredited by the Engineering Technology Accreditation Commission (ETAC) of ABET®, 415 N. Charles Street, Baltimore, MD 21201-4012 – telephone: (410) 347-7700. The Information Logistics Technology (INLT) program is accredited by the Applied Science Accreditation Commission (ASAC) of ABET®, 415 N. Charles Street, Baltimore, MD 21201-4012 – telephone: (410) 347-7700. Additionally, the Information Logistics Technology Program is the only program in the country that is accredited by both ABET® and the Association of Technology Management and Applied Engineering (ATMAE) [www.atmae.org](http://www.atmae.org) 310 W.Lake Street, Ste 111 Elmhurst, IL 60126 , 630.433.4514

The goals of the Department of Technology are as follows:

- Graduates will earn advanced degrees or advanced certificates in engineering, engineering technology, business, or related technical fields.
- Graduate will advance professionally in leadership both within a chosen technical field and more broadly within the community.

- Graduates will contribute as entrepreneurs and innovators by adapting to new technology and career challenges.
- Graduates will publish scholarly articles, pursue patents and be responsive to societal, legal, ethical, and environmental challenges.

### **Electronics Engineering Technology**

The future electronics engineering technologist will study theory and practice in all areas of electronics using modern electronic and microprocessor laboratories. He/she will become familiar with all the areas of electronics, including analog and digital integrated circuits, instrumentation, discrete power devices, electronic communications and control devices. This hardware oriented program provides students with knowledge of currently established design and laboratory techniques. The laboratory facilities will be supplemented by the use of video resources, microprocessor trainers, and the use of computers to solve problems and design analog and digital circuits.

#### **Course Requirements for the B.S. in Electronics Engineering Technology:**

Earn at least a "C" or higher in major courses and MATH 150.

### **Mechanical Engineering Technology**

Mechanics and thermodynamics form the core of the program. Mechanics examines the forces acting on machines and their tendency to cause failure. Thermodynamics covers energy conversion principles as applied to engines, refrigeration and other systems. The mechanical engineering technology graduates provide expertise to transform engineering design into products and services. Graduates are employed in their profession to engage in problem-solving activities using applied methods.

Mechanical Engineering Technology provides an educational experience that is laboratory-focused, with emphasis on applications and hands-on learning. Laboratory experiences include mechanical measurements, computer aided design, material testing, and hydraulic and pneumatic systems. Great emphasis is given modeling and simulation within the program with exposure to Product Life Cycle Management software. Overall, the program provides students with a practical approach to problem solving in such areas as machine design, production, and manufacturing.

#### **Course Requirements for the B.S. in Mechanical Engineering Technology:**

Earn at least a "C" or higher in major courses and MATH 150.

### **Information Logistics Technology**

Information Logistics Technologists work very closely with other members of the engineering and marketing team consisting of scientists, engineers, technicians, craftsmen, marketers, trainers, and managers, within a broad variety of industries and the government. The information technologist and logisticians typically assume positions in training, production management, quality management, facilities management, industrial sales and marketing, manufacturing management, supply chain management, distribution, and material handling.

The program is designed to produce technical/management professional who are typically involved with:

- Application of theories, concepts, and principles found in information systems, industrial engineering and the social and behavioral sciences, including a thorough grounding in communications skills.
- Understanding of the theories and the ability to apply the principles and concepts of mathematics and science and the application of computer fundamentals.
- Application of concepts derived from, and current skills developed in, a variety of technical and related

disciplines which may include, but are not limited to, materials and production processes, industrial management and human relations, marketing, communications, electronics, graphics, distribution and logistics management. Completion of a field of specialization, for example, integrated information systems applications, big data processing, computer aided design, computer integrated manufacturing, supply chains, or transportation.

Engineering Technology consists of Electronics Engineering Technology (ELET) and Mechanical Engineering Technology (MCET). These two engineering technology programs are accredited by the Engineering Technology Accreditation Commission (ETAC) of ABET®, 415 N. Charles Street, Baltimore, MD 21201-4012 – telephone: (410) 347-7700.

The Information Logistics Technology (INLT) program is accredited by the Applied Science Accreditation Commission (ASAC) of ABET®, 415 N. Charles Street, Baltimore, MD 21201-4012 – telephone: (410) 347-7700.

The Information Logistics Technology Program is the only program in the country that is accredited by both ABET® and the Association of Technology Management and Applied Engineering (ATMAE) [www.atmae.org](http://www.atmae.org) 310 W.Lake Street, Ste 111 Elmhurst, IL 60126 , 630.433.4514

## **ELECTRONICS ENGINEERING TECHNOLOGY**

### **Course Description**

#### **ELET 101 CIRCUIT ANALYSIS I - 4 semester hours**

A beginning course in electric circuit analysis with emphasis on direct-current applications. Topics include: SI units and scientific notation, electrical quantities, measuring electrical quantities, power and energy, resistive circuits, methods of analysis, network theorems and capacitance.

**Corequisites:** ENGT 100 Introduction to Engineering Technology; MATH 150 Precalculus or equivalent; ELET 103 Circuit Analysis I Lab

#### **ELET 102 CIRCUIT ANALYSIS II - 4 semester hours**

A beginning course in electric circuit analysis with emphasis on alternating-current applications. Topics include: magnetic circuits, inductors, sinusoidal waveforms, basic elements and phasors, series and parallel ac circuits, series-parallel networks, ac power, resonance, and three-phase systems.

**Prerequisites:** ELET 101 Circuit Analysis I; MATH 150 Precalculus or equivalent  
**Corequisite:** ELET 104 Circuit Analysis II Lab

#### **ELET 103 CIRCUIT ANALYSIS I Lab - 1 semester hour**

Laboratory experiments in DC theory with emphasis on breadboarding electric circuits, using meters, and using electronic simulation software to complement ELET 101 Circuit Analysis I.

**Corequisites:** ENGT 100 Introduction to Engineering Technology; Math 150 Precalculus or equivalent; ELET 101 Circuit Analysis I

#### **ELET 104 CIRCUIT ANALYSIS II Lab - 1 semester hour**

Laboratory experiments in AC theory with emphasis on breadboarding electric circuits, using meters and other test equipment to measure and troubleshoot AC circuits and devices. Develops skills in measuring AC circuit parameters.

**Prerequisites:** ELET 101 Circuit Analysis I; MATH 150 Precalculus or equivalent  
**Corequisite:** ELET 102 Circuit Analysis II

#### **ELET 203 INTRODUCTION TO ELECTRONICS - 4 semester hours**

An introductory course in solid-state electronic devices and their applications. Topics include the following: diodes and their applications, Zener diodes, the junction transistor, CE, CB, and CC configurations of junction transistors, the SCR and other thyristors, and field-effect transistors.

**Prerequisite:** ELET 101 Circuit Analysis I  
**Corequisite:** ELET 205 Introduction to Electronics Lab

#### **ELET 204 ELECTRONIC CIRCUITS - 4 semester hours**

An introductory course in solid-state electronic circuits and their applications. Topics include the following: amplifier frequency response, power amplifiers, oscillators, differential and operational amplifiers, operational amplifier applications, power supplies, and voltage regulators.

**Prerequisite:** ELET 203 Introduction to Electronics  
**Corequisite:** ELET 206 Electronics Circuits Lab

#### **ELET 205 Introduction to Electronics Lab -1 Semester hour**

Laboratory experiments with semiconductor junction devices, with emphasis on diodes, bipolar junction transistors and field-effect transistors including DC biasing and stability to complement ELET 203 Introduction to Electronics.

**Prerequisite:** ELET 101 Circuit Analysis I  
**Corequisite:** ELET 203 Introduction to Electronics

**ELET 206 Electronics Circuits Lab - 1 semester hour**

Laboratory experiments on power amplifiers, operational amplifiers, oscillators, voltage regulators, and other semiconductor devices, and frequency response analysis to complement ELET 204 Electronic Circuits.

**Prerequisite:** ELET 203 Introduction to Electronics;

**Corequisite:** ELET 206 Electronic Circuits

**ELET 207 DIGITAL CIRCUITS - 4 semester hours**

An introductory course in digital-circuit concepts, applications, and design. Topics include the following: number systems and codes, logic gates, Boolean algebra, Karnaugh mapping, combinational logic design, sequential logic circuits, sequential logic design, and IC logic families.

**Prerequisite:** ELET 101 Circuit Analysis I

**Corequisite:** ELET 209 Digital Circuits Lab

**ELET 208 MICROPROCESSORS - 4 semester hours**

Introduction to 16-bit microprocessors with emphasis on programming. Topics include the following: data control, memories, data transmission, addressing modes, subroutines, and introduction to hardware.

**Prerequisite:** ELET 207 Digital Circuits

**Corequisite:** ELET 211 Microprocessors Lab

**ELET 209 DIGITAL CIRCUITS Lab - 1 semester hour**

Laboratory experiments in combinational logic circuits designed to complement ELET 207 Digital Circuits; analyze, measure and troubleshoot logic circuits and devices using general test equipment.

**Prerequisite:** ELET 101 Circuit Analysis I

**Corequisite:** ELET 207 Digital Circuits

**ELET 211 MICROPROCESSORS Lab - 1 semester hour**

Microprocessor-based laboratory utilizing computer programming language. Emphasis is on writing and running programs on 8086/8088 based microprocessor systems. Laboratory experience includes both software and hardware. This is the laboratory that accompanies ELET 208 Microprocessors.

**Prerequisite:** ELET 207 Digital Circuits

**Corequisite:** ELET 208 Microproces

**ELET 304 ADVANCED CIRCUIT ANALYSIS – 3 semester hours**

An advanced course in electric circuit analysis. Topics include the following: review of analysis methods for dc and ac networks, waveforms, differential equations, Laplace transforms and applications, and transfer functions.

**Prerequisites:** ELET 102 Electronic Circuits; MATH 260 Calculus I

**ELET 306 ADVANCED ELECTRONICS - 4 semester hours**

An advanced course in the design and applications of linear integrated circuit devices. Topics include the following: power supply regulators, op-amp characteristics, single-supply operation, signal generator circuits, and active filters.

**Prerequisites:** ELET 204 Electronic Circuits; MATH 260 Calculus I

**Corequisite:** ELET 307 Advanced Electronics Lab

**ELET 307 ADVANCED ELECTRONICS Lab - 1 semester hour**

Hands-on experience with the design and applications of more advanced electronic circuits including linear integrated electronic circuit devices. This laboratory course is designed to complement ELET 306 Advanced Electronics.

**Prerequisites:** ELET 204 Electronic Circuits; MATH 260 Calculus I

**Corequisite:** ELET 306 Advanced Electronics

**ELET 309 ADVANCED DIGITAL CIRCUITS - 4 semester hours**

A design course for digital computer circuits using integrated circuit devices. Topics include the following: shift registers, counters, encoders, multiplexers, arithmetic circuits, D/A and A/D converters, and memory circuits.

**Prerequisite:** ELET 207 Digital Circuits

**Corequisite:** ELET 311 Advanced Digital Circuits Lab

**ELET 311 ADVANCED DIGITAL CIRCUITS Lab - 1 semester hour**

This laboratory course complements ELET 309 Advanced Digital Circuits. Students design, construct and troubleshoot digital circuits that include shift registers, memory ICs, PLDs, DACs/ADCs. Design and simulation tools are utilized.

**Prerequisite:** ELET 207 Digital Circuits

**Corequisite:** ELET 309 Advanced Digital Circuits

**ELET 399 SPECIAL TOPICS - 3 semester hours**

A course which can be designated by the department to cover some aspect of Engineering Technology as needed by a class or group of students in lieu of another technical elective or as independent study to upgrade their skills and knowledge in a particular area.

**Prerequisite:** Permission of the instructor

**ELET 401 ELECTRIC MACHINERY - 3 semester hours**

A course in electric machines designed for students majoring in electronics engineering technology. Topics include the following: fundamentals of electromagnetics, dynamo construction, dc generators and motors, ac dynamos, synchronous machines, ideal and practical transformers, polyphase and single-phase induction motors, and other single-phase motors.

**Prerequisites:** ELET 102 Circuit Analysis II; MATH 260 Calculus I; PHYS 106 Introduction to Physics II or equivalent

**ELET 403 CONTROL SYSTEMS - 3 semester hours**

A course in control theory and applications. Topics include the following: feedback control, servo components, mathematical techniques, transfer functions, block diagrams, analysis of second-order servo systems, stability and frequency response analysis, and compensation.

**Prerequisites:** ELET 304 Advanced Circuit Analysis; MATH 261 Calculus II; PHYS 105 Introduction to Physics I or equivalent

**ELET 406 COMMUNICATION SYSTEMS - 3 semester hours**

Introduction to the theory and practice of communication systems. Covers communication system theory, analog and digital communication techniques. Topics include the following: amplitude, phase, analog, pulse and digital modulation, design and analysis of modulation systems.

**Prerequisites:** ELET 208, ELET 306, ELET 309 and PHYS 106 (or equivalent)

**ELET 408 ADVANCED MICROPROCESSORS I - 4 semester hours**

An advanced course in microprocessors with emphasis on the hardware of a 16-bit processor. Topics include the following: introduction to the 8086/8088 microprocessor, arithmetic and logic instructions, program control instructions, 8086/8088 hardware specifications, memory interfacing, input/output interfacing, and interrupt circuits.

**Prerequisite:** ELET 208 MICROPROCESSORS

**Corequisite:** ELET 411 Advanced Microprocessors I Lab

**ELET 409 ADVANCED MICROPROCESSORS II - 4 semester hours**

An advanced course in microprocessors with emphasis on the hardware interfacing of the 8086/8088 to compatible chips. Topics include the following: basic I/O interfacing (using the 8255A PPI), interrupts (using the 8259A PIC), direct memory access, the 8089 I/O coprocessor, the 8087 arithmetic coprocessor, and other 8086/8088 family members.

**Prerequisite:** ELET 408 Advanced Microprocessors I

**Corequisite:** ELET 412 Advanced Microprocessors II Lab

**ELET 410 INTRODUCTION TO ELECTRICITY/ELECTRONICS - 3 semester hours**

A course in electrical circuits and electrical machines for students NOT majoring in electronics engineering technology. Topics include the following: resistors, dc circuits, magnetism, electromagnetic forces, ac voltage and current, inductance and capacitance, dc generators and motors, ac circuits, single-phase and three-phase circuits, transformers, 3-phase induction motors, synchronous motors and generators, single-phase motors, motor controls, and electrical distribution.

**Prerequisites:** PHYS 106 Introduction to Physics II or equivalent; MATH 150 Precalculus or Equivalent

**ELET 412 ADVANCED MICROPROCESSORS II Lab - 1 semester hour**

Project oriented laboratory course in the areas of microprocessor based systems.

**Prerequisite:** ELET 408 Advanced Microprocessors I

**Corequisite:** ELET 409 Advanced Microprocessors II

**ELET 499 SPECIAL TOPICS - 3 semester hours**

A course which can be designated by the department to cover some aspect of Engineering Technology as needed by a class or group of students in lieu of another technical elective or as independent study to upgrade their skills and knowledge in a particular subject area.

**Prerequisite:** Permission of instructor

**ENGINEERING TECHNOLOGY****ENGT 100 INTRO TO ENGINEERING TECHNOLOGY - 2 semester hours**

Introduction to professional field of engineering technology; professional ethics and responsibilities of technologists; application of hand calculator to engineering problem solving; systems of units and their conversions; engineering problem-solving techniques.

**Corequisite:** MATH 150 Precalculus or equivalent

**ENGT 105 ENGINEERING PROBLEM SOLVING -2 semester hour**

Introduction to use of computers for solving engineering problems. Topics include: Computer Systems, Mathematics and Engineering Technology/Engineering Software Packages.

**Prerequisite:** ENGT 100 Introduction to Engineering Technology

**ENGT 401 TECHNICAL INTERNSHIP - 3 Semester hours**

This course requires the student to work in a company for a semester. The internship provides practical experience in a closely supervised environment. A written Report is required at the end of the internship program. Nine contact hours per week.

**Prerequisite:** Junior Standing and Consent of Instructor

**ENGT 420 SENIOR PROJECT I - 3 semester hours**

Student will design a project to illustrate basic knowledge and skills in one phase of his/her major field. Proposal development, library research, project management and computer usage are stressed.

**Prerequisite:** Senior Standing and Consent of Instructor

**ENGT 421 SENIOR PROJECT II - 2 semester hours**

This portion of the project includes complete design specifications, computer analysis and/or simulation, library research, oral and written reports. It may also include construction, trouble-shooting and demonstration of a working prototype.

**Prerequisite:** ENGT 420 Senior Project I

**MECHANICAL ENGINEERING TECHNOLOGY****MCET 102 MACHINES LABORATORY -1 semester hour**

Basic hand tools, shop safety procedures; fundamental machine operations of drilling, sawing, milling, turning; inspection tools, gauges, measuring instruments.

**Prerequisite:** None

**MCET 200 STATICS - 3 semester hours**

Force systems, resultants, and equilibrium; trusses, method of joints, method of sections; friction; centroids, moments of inertia.

**Prerequisites:** MATH 150 Precalculus or equivalent and ENGT 100 Introduction to Engineering Technology

**MCET 201 STRENGTH OF MATERIALS - 3 semester hours**

Stress and deformation; axial, tensile and compressive stresses, torsion; shear and moment in beams; stresses in beams; and design of beams.

**Prerequisite:** MCET 200 Statics

**MCET 202 STRENGTH OF MATERIALS LAB -1 semester hour**

Tensile, compressive, torsional, bending, impact, hardness, and fatigue tests of materials; use of electrical resistance strain gages; statistical evaluation of data.

**Prerequisites:** MCET 200 Statics and MCET 102 Machines Lab.

**Corequisite:** MCET 201 Strength of Materials

**MCET 301 INTRODUCTION TO THERMODYNAMICS - 3 semester hours**

An introduction to fundamentals of thermodynamics; including work and heat; first and second laws; properties of gases, gas mixtures; compression and expansion of gas steam tables are covered.

**Prerequisites:** MATH 260 Calculus I

**MCET 305 MANUFACTURING MATERIALS AND PROCESSES - 3 semester hours**

The study of the physical and mechanical properties of various materials as applied to design, processing, and fabrication methods.

**Prerequisites:** MCET 201 Strength of Materials

**MCET 306 MACHINE DESIGN I - 3 semester hours**

The design of basic elements used in machines, including machine columns, welds, rivets, screws, springs, flexible couplings, belt and chain drives. Design for fatigue strength is included.

**Prerequisites:** MCET 201 Strength of Materials, ENGR 200 Engineering Graphics and MATH 260 Calculus I

**MCET 307 KINEMATICS OF MACHINES - 3 semester hours**

The study of techniques for the analysis of displacement, velocity, and acceleration of machine elements; emphasis on graphical kinematics of linkages; introduction to cams.

**Prerequisites:** ENGR 200 Engineering Graphics and MCET 311 Dynamics

**MCET 311 DYNAMICS - 3 semester hours**

The kinematics and kinetics of particles and rigid bodies; rectilinear and curvilinear motion, work, energy, impulse and momentum. Use of computers for problem solving is included.

**Prerequisites:** MCET 200 Statics, MATH 261 Calculus II and PHYS 105 Physics I

**MCET 313 FLUID MECHANICS - 3 semester hours**

Properties of fluids; fluid statics and dynamics, including momentum, energy, Bernoulli's equation, fluid flow in pipes, fluid machinery, and open channels: study of the siphon, pitot tube, venturi meter, orifices, nozzles, diffusers, weirs, etc.

**Prerequisites:** MCET 200 Statics and MATH 260 Calculus I

**MCET 314 FLUID MECHANICS LABORATORY - 1 semester hour**

Laboratory demonstrations, experiments, and exercises dealing with the verification of fluid equations, and principles and characteristics of fluid machinery.

**Co-requisite:** MCET 313 Fluid Mechanics

**MCET 401 APPLIED THERMODYNAMICS - 3 semester hours**

Study of thermodynamic cycles; includes Carnot, Rankine, Sterling and Application of thermodynamic principles to turbines and compressors.

**Prerequisites:** MCET 301 Introduction to Thermodynamics and MATH 261 Calculus II

**MCET 403 QUALITY CONTROL - 3 semester hours**

A study of the principles and techniques of quality control and its applications to industrial processes. Topics include: An overview of Total Quality Management (TQM), statistics, process control charts, and probability. The relationship between process capability and product specifications is analyzed.

**Prerequisite:** ENGT 105 Engineering Problem Solving

**MCET 404 ENERGY LABORATORY - 1 semester hour**

A study of heat transfer equipment; shell and tube heat exchangers, energy conversion from chemical to mechanical energy; calorimeters; internal combustion engines (diesel and Otto cycles).

**Corequisite:** MCET 401 Applied Thermodynamics

**MCET 406 MACHINE DESIGN II - 3 semester hours**

A further development of the principles and techniques of machine element design with particular regard to gears, axles and shafts, bearings, clutches, brakes, gaskets and seals. Design projects are included.

**Prerequisite:** MCET 306 Machine Design I

**MCET 415 INSTRUMENTATION AND CONTROLS - 3 semester**

A study of the basic concepts and principles associated with the operation and use of sensors and instruments for the measurement and for the control of various properties (temperature, pressure, liquid level, fluid flow, etc.); accuracy and reliability of instruments and their role in control systems.

**Prerequisites:** ELET 410 Introduction to Electricity and Electronics

**MCET 416 MEASUREMENTS LABORATORY - 1 semester hour**

Experiments are conducted to reinforce and expand on concepts learned in MCET 415 lecture course; emphasis is on electrical and electronic devices used in mechanical measurements; included as various types of transducers, bridge circuits, and operational amplifiers.

**Co-requisite:** MCET 415 Instrumentation and Controls

**MCET 421 HYDRAULICS AND PNEUMATICS - 3 semester hours**

Fundamentals of hydraulic and pneumatic system design and troubleshooting; topics include circuit diagrams, valves, rotary activators, cylinders, pumps, piping and fitting losses.

**Prerequisite:** MCET 313 Fluid Mechanics

**MCET 422 HYDRAULICS AND PNEUMATICS LAB - 1 semester hour**

Selected design problems and projects dealing with principles and methods discussed in MCET 421. Preparation of circuit diagrams, flow charts, and detailed designs; circuits are set up and analyzed.

**Corequisite: MCET 421 Hydraulics And Pneumatics**

**MCET 441 HEAT TRANSFER - 3 semester hours**

A course on the fundamental principles of heat transfer with a broad range of engineering applications. The classic modes of heat transfer, steady state and transient conduction, natural and forced convection, and radiation, will be emphasized. Both numerical and analytical solutions are discussed and illustrated. Application to problems associated with both mechanical and electronic engineering will be demonstrated through problems such as those related to the heating and cooling of buildings and the cooling of electronic equipment.

**Prerequisite: Math 261 Calculus II and permission of instructor**

**MCET 499 SPECIAL TOPICS IN ENGINEERING TECHNOLOGY - 3 semester hours**

A course or independent study covering some topic in Engineering Technology as technical elective. Goal is to enhance student skill and knowledge in relevant topic.

**Prerequisite: Permission of instructor**

## **INFORMATION LOGISTICS TECHNOLOGY**

### **INLT 141 INTRODUCTION TO LOGISTICS – 3 semester hours**

This course will cover topics related to logistics in a systems approach to managing activities associated with transportation, inventory management and control, forecasting, and integration of logistics with other functional areas, cross functional teams, supplier, distributor, and customer partnerships.

### **INLT 161 ENGINEERING GRAPHICS I – 3 semester hours**

Introduction to basic 2D technical drawing and drafting, including sketching, lines, points, geometry, orthographic projection, auxiliary views, section views, basic dimensioning, introduction to GD&T, visualization, basic drawing standards. Student projects required (sketching, drawing, and CAD software)

### **INLT 201 TECHNOLOGY AND SOCIETY - 3 semester hours**

A survey of the technology field as it relates to the academic background and opportunities for industrial technology graduates is covered. Advancing technology and its impact on industry, business, and society is reviewed

### **INLT 212 PRINCIPLES OF TECHNOLOGY – 3 semester hours**

Provide students with experience in the application of the principles of physics and mathematics as they relate to the modern technological systems, including robotics in a unified systems approach to explore mechanical, electrical, fluid, and thermal systems dealing with force, work, rate, resistance, energy, power, force transformers, momentum, wave, energy converters, transducers, radiation, optical systems, and time constants.

### **INLT 217 TECHNICAL GRAPHICS COMMUNICATION – 3 semester hours**

Introduction to the use of various technical graphics media and methods of presentation of technical information. Topics include; electronic slide shows, graphic file formats, basic editing of graphic data, user interface design, graphic presentation, and interpreting graphic data.

### **INLT 245 DISTRIBUTION SYSTEMS – 3 semester hours**

The course is designed to provide students with an introduction to the methods and strategies used in distributing products and managing the inventory in supply chain. Topics covered include the design of channels and activities performed by node members to facilitate efficient movement of goods.

**Prerequisite: INLT 141**

### **INLT 247 MATERIALS HANDLING AND INVENTORY CONTORLS – 3 semester hours**

The principles of quantitative and operational approaches to the design of handling system including receiving, storage, retrieval, packaging, palletizing, material handling, order picking, shipping, facility sizing and layout. Information systems and operating policies of material handling and warehousing will be covered.

**Prerequisite: INLT 141**

### **INLT 249 MATERIAL PROCESSES AND SAFTEY ANALYSIS – 3 semester credits**

This course provides a strong foundation of knowledge of manufacturing materials, standards and standard organizations; properties and nature of materials, materials testing and applications. Safety engineering and program management of specific construction and industrial hazards and other safety documents dealing with accident investigations.

**Prerequisite: INLT 212**

**INLT 250 INDUSTRIAL MATERIALS – 3 semester hours**

This course provides a strong foundation of knowledge of industrial materials, ranging from traditional metals, wood, ceramics, and polymers to advanced engineered materials and composites. Standards and standard organizations; properties and nature of materials, materials testing and applications.

**Prerequisite: INLT 212**

**INLT 261 ENGINEERING GRAPHICS II – 3 semester hours**

Introduction to 3D modeling including visualization skills, basic parametric modeling, CSG modeling, primitives, Boolean operators, view extraction, file management, assembly, dimensioning, and drawing standards. Student projects required (sketching, CAD software).

**Prerequisite: ENGR 200**

**INLT 280 INDUSTRIAL ERGONOMICS – 3 semester hours**

This course focuses on work design and ergonomics in manufacturing. Specific attention will be on introducing the terminology and the techniques used in work design, and the fundamental concepts embodied in industrial ergonomics. Community based projects may be required.

**Prerequisite: MATH 122**

**INLT 281 INDUSTRIAL SAFETY - 3 semester hours**

OSHA and its administration. Safety engineering and program management of specific construction and industrial hazards; standards, codes, and other safety documents. Accident investigation and safety analysis. Topics in occupational safety and environmental health are widely covered in the course.

**Prerequisite: INLT 249**

**INLT 290 INTRODUCTION TO DATABASE APPLICATIONS - 3 semester hours**

This course introduces the underlying concepts behind data modeling and database systems using relational database management systems (RDBMS), the structured query language (SQL), and web applications (Perl DBI in CGI).

**INLT 292 INTRODUCTION TO ENTERPRISE RESOURCE PLANNING– 3 semester hours**

ERP approaches to design, plan, and control of logistics management. Core aspects of enterpriser resources planning (ERP) infrastructure and application with extensive hands on practice example s applications will be covered.

**INLT 320 INTRODUCTION TO ERP and FINANCIAL ACCOUNTING – 3 semester hours**

Studies the need for integration and the challenges of managing complex interfaces of functional areas of business with its financial accounting. Activities that lead to integration of information funds and material flows across multiple organizations are discussed.

**Prerequisite: INLT 292**

**INLT 330 SALES AND PROCUREMENT– 3 semester hours**

A realistic perspective on the role of industrial sales and the nature of the sales task in our business. Identification of critical influences on organizational buyer behavior, both internal and external, definition of various types of buying situations, and organizational purchasing processes.

**Prerequisite: INLT 245**

**INLT 335 LEAN PROCESS MANAGEMENT– 3 semester hours**

A systematic approach to eliminating non-value added activities throughout a production system. Lean principles and techniques will be applied to improve organizations ability to provide added customer value on products. Community based projects may be required.

**Prerequisite: INLT 212**

**INLT 345 TRANSPORTATION LOGISTICS – 3 semester hours**

Introduction to the theory and applications of transportation, logistics, and associated costs is covered. Topics include modes of transportation and their networks; optimization of transportation systems across networks; flow across networks; supply, demand, and forecasting for transportation services; costs and benefits of specific modes and transportation policy analysis.

**Prerequisite:** INLT 141 and INLT 245

**NLT 350 INDUSTRIAL CONTROLS – 3 semester hours**

Study of the devices, procedures, and techniques essential to industrial measurement and transmission of data in the areas of machine control, process control, and automated testing. Topics include: switches, transformers, relays, actuators, solenoids, transducers, timers, counters, motor starters, ladder diagrams, and power factor correction

**Prerequisite:** INLT 212

**INLT 353 FLUID POWER – 3 semester hours**

Provides students with experience in the application of the principles of physics and mathematics as they relate to problem solving in modern technological systems, including robotics in a unified systems approach to explore mechanical, electrical, fluid, and thermal systems dealing with force, work, rate, resistance, energy, power, force transformers, and time constants as it relates to fluid power.

**Prerequisite:** INLT 212

**INLT 359 INDUSTRIAL ORGANIZATION AND MANAGEMENT– 3 semester hours**

The course is a survey of organizational structures, operational, financial, marketing, and accounting management. Emphasis is placed on planning, control, personnel, safety, wages, policies, and leadership for an effective industrial management.

**INLT 362 ENGINEERING GRAPHICS III – 3 semester hours**

Continuation of INLT 261. Advanced parametric modeling, product development and design, technical animation of assemblies – group project required (sketching, CAD software)

**Prerequisite:** INLT 261

**INLT 365 MECHANICAL PRINT READING – 3 semester hours**

Reading prints as related to current common practices in engineering and technology. Emphasis on standardization and quality real world manufacturing industry print examples. Application of national (ANSI Y – 14) and international standards and related documentation practices, including geometric tolerance.

**Prerequisite:** ENGR 200 and INLT 249

**INLT 370 ARCHITECTURAL DRAFTING AND DESIGN I – 3 semester hours**

Introduction to residential architecture, plots plans, footings and foundations, residential structures, building codes, schedules, basic interiors. Student projects required (sketching, CAD software)

**Prerequisite:** INLT ENGR 200

**INLT 372 ARCHITECTURAL DRAFTING AND DESIGN II – 3 semester hours**

Continuation of INLT 370, focus on material, schedules, HVAC, plumbing, and electrical details. Student projects required (sketching, CAD software)

**Prerequisite:** INLT 370

**INLT 374 STATICS AND STRENGTH OF MATERIALS – 3 semester hours**

Structural principles and concepts linked to real buildings and components. Elementary statics and strength of materials as they related to the basic principles of mechanics. Gravity and lateral load tracings; determinate structural frame-works. Concept of stress and strain, and material properties; cross-sectional properties; Beam and column analysis and design; steel connections. Use of structural software to generate graphically display outlook.

**Prerequisite:** MATH 212, INLT 372 or permission of instructor

**INLT 383 QUALITY MANAGEMENT - 3 semester hours**

Quality management philosophies of Deming, Juran, and Cosby; total quality management (TQM); quality improvement and problem solving, with practical examples of quality problem tools; sampling techniques. The Taguchi loss function, quality function and policy deployment, materials control and just-in-time; quality audits; ISO 9000 inspection standards; charts for statistical process control and interpretation.

**Prerequisite: STAT 210**

**INLT 385 COST ESTIMATING - 3 semester hours**

Principles and techniques necessary for the economic analysis and cost evaluation of construction and industrial design projects. Interpretation of construction and engineering drawings and specifications; estimating, operations, products, projects, and systems. Estimate assurance and contract considerations.

**Prerequisite: INLT 249**

**INLT 443 ENGINEERING AND TECHNOLOGY ENTREPRENEURSHIP – 3 semester hours**

This course covers concepts related to entrepreneurship relevant to engineering and technology applications. Major topics include entrepreneurial risk taking, startup strategies, innovative idea evaluation, business plan writing, financing and venture capital, managing growth and introducing and sustaining innovative products and services. Through case studies and guest speakers, the course introduces students to the knowledge and skills needed to recognize and seize technological entrepreneurial opportunities.

**Prerequisite: Junior or Senior standing**

**INLT 444 ENTERPRISE RESOURCE PLANNING – 3 semester hours**

Analytical approaches to design, planning, and control of logistics management. Core aspects of enterprise resource planning (ERP) infra-structure and applications in industry. ERP planning strategies and implementation, including domestic and international manufacturing and service operations.

**Prerequisite: Consent of Instructor**

**INLT 445 PROCUREMENT MANAGEMENT – 3 semester hours**

The role of procurement in business and industry; relationships with other departments, procedures, and basic policies. Planning, organization, budgeting, negotiations, purchasing ethics, procurement control, strategic purchasing management, and impact of research and value analysis.

**Prerequisite: INLT 345**

**INLT 446 ELECTRONICS LOGISTICS – 3 semester hours**

Reviews several E-Business trends related to logistics management; the impact of E-Business on creating a business plan and discussing E-Business architecture. CRM core competencies, organizational challenges, implementation trends, and planning strategies.

**Prerequisite: INLT 320**

**INLT 447 SUPPLY CHAIN MANAGEMENT – 3 semester hours**

The planning and implementation of supply chain management, reverse logistics, integrated production. Inventory and distribution problems, multi-partner pricing analysis, and supply chain distribution network designs will be covered.

**Prerequisite: INLT 345**

**INLT 448 GLOBAL LOGISTICS – 3 semester hours**

It covers topics related to global logistics as key component of supply chains that coordinates the movement of raw materials, work-in-process in a global network of shippers, forwarders, third party transportation providers, warehouses, customs agencies, and consignees to coordinate the activities that provide the logistics product.

**Prerequisite: INLT 345**

**INLT 451 ANALYTICS/BUSINESS INTELLIGENCE– 3 semester hours**

This course is an introduction to business analytics that uses extensive data, statistical and qualitative analysis, exploratory and predictive models, and fact-based management to drive decisions and actions. The development and use of data warehouses and data marts to support business analytics is discussed. The use of key performance indicators, dashboards and scorecards for performance management and opportunity assessment are addressed. Text and web mining are discussed, and the application of selected data mining techniques to business decision making situations is illustrated. Hands-on exercises will be provided for active participation.

**Prerequisite: INLT 320**

**INLT 473 ARCHITECTURAL DRAFTING AND DESIGN III – 3 semester hours**

Focus on commercial structures and codes, various international styles of architecture, green construction, alternative building materials and energy sources. Student projects required. (sketching, CAD software)

**Prerequisite: INLT 372**

**INLT 480 FACILITIES MANAGEMENT – 3 semester hours**

Facilities planning strategies, product, process, and schedule design; flow space and activity relationships; design of material handling system. Facilities functions and systems; quantitative facilities planning models, including the use of software applications. Industrial facility management.

**Prerequisite: ENGR 200 and INLT 245**

**INLT 481 MECHANICAL INSPECTION – 3 semester hours**

Inspection points, personnel, and planning, using various graphical inspection techniques. Inspection as an appraisal activity in business/industry. Dimensional metrology-application of common and special gages; surface plate tools and techniques. Inspection planning and procedures; sampling and testing methods; nondestructive testing. Laboratory activities are included. Industrial visitation is required.

**Prerequisite: INLT 383 or permission of instructor**

**INLT 485 PROJECT MANAGEMENT - 3 semester hours**

The principles and techniques of managing engineering and construction projects from the conception phase through design and construction, to completion. Working with project teams, early estimates, and design proposals; project budgeting, scheduling, and aggregate planning. Case study approach is emphasized.

**Prerequisite: INLT 385**

**INLT 486 PLANNING AND SCHEDULING - 3 semester hours**

Principles of planning and scheduling in manufacturing and service industries; the conversion of a project plan into an operating time-table. Application areas to cover project, job-shop, workforce, supply chain, and economic lot scheduling. Methodologies to include PERT, WBS, and GANTT chart. Utilization of current and emerging technologies and global dynamics with project management will be emphasized.

**Prerequisite: INLT 485**

**INLT 499 SPECIAL TOPICS – 3 semester hours**

A course or independent study covering a topic in Information Logistics Technology that may be used in lieu of a technical elective. The goal of this course is to enhance students' skills and knowledge in an area relevant to their area of study.

**Prerequisite: Permission of instructor**

**DEPARTMENT OF TECHNOLOGY  
ELECTRONICS ENGINEERING TECHNOLOGY  
BACHELOR OF SCIENCE DEGREE**

		Semester Hours		
<b>FRESHMAN YEAR</b>		<b>1st Sem</b>	<b>2nd Sem</b>	<b>Total Hours</b>
ENGR 200, ELET 101/103	Engineering Graphics, Circuit Analysis/Lab I	3	4	7
ENGT 100, 105	Intro to Engr. Technology, Engr. Problem Solving	2	2	4
ENGL 110, 111	Composition I, II	3	3	6
GE HPER	HPER Elective	--	1	1
MCET 102	Machine Lab	1	--	1
MATH 150, STAT 210	Pre-Calculus, Elementary Statistics I	4	3	7
GE HIST, PYSC 101	History Elective, Intro. to Psychology	<u>3</u>	<u>3</u>	<u>6</u>
		<b>16</b>	<b>16</b>	<b>32</b>
<b>SOPHOMORE YEAR</b>				
ELET 203/205, 204/206	Intro to Electronics/Lab, Electronic Circuits/Lab	4	4	8
ELET 207/209, 208/211	Digital Circuits/Lab, Microprocessors/Lab	4	4	8
MATH 260, 261	Calculus I, Calculus II	4	4	8
ELET 102, PHYS 105	Circuit Analysis II/Lab, and Intro to Physics I w/ Lab	<u>4</u>	<u>4</u>	<u>8</u>
		<b>16</b>	<b>16</b>	<b>32</b>
<b>JUNIOR YEAR</b>				
GE HPER, ELET 309/311	HPER Elective, Adv. Digital Circuits w/Lab	1	4	5
ELET 306/307, 304	Adv. Electronics/Lab, Adv. Circuit Analysis	4	3	7
ENGR 203, ENGR 310	Intro Programming, Engineering Economics	3	3	6
SPEE 214, PHIL 275	Intro. to Public Speaking, Ethics	3	3	6
PHYS 106, GE Lit Elective	Intro to Physics II w/lab, Literature Elective	<u>4</u>	<u>3</u>	<u>6</u>
		<b>15</b>	<b>16</b>	<b>31</b>
<b>SENIOR YEAR</b>				
ELET 403, ELET 401	Control Systems, Electric Machinery	3	3	6
INLT 292, ELET 406	Intro. to ERP, Communication Systems	3	3	6
Free Elective, Global Studies	Free Elective, Global	3	3	6
INLT 383, Technical Elective	Quality Management, Technical Elective	3	3	6
ENGT 420, 421	Senior Project I, Senior Project II	<u>3</u>	<u>2</u>	<u>5</u>
		<b>15</b>	<b>14</b>	<b>29</b>

Total Program Semester hours

**DEPARTMENT OF TECHNOLOGY  
MECHANICAL ENGINEERING TECHNOLOGY  
BACHELOR OF SCIENCE DEGREE**

		<b>Semester Hours</b>		
<b>FRESHMAN YEAR</b>		<b>1st Sem</b>	<b>2nd Sem</b>	<b>Total Hours</b>
ENGR 200, STAT 210	Engineering Graphics, Elementary Statistics	3	3	6
ENGT 100, 105	Intro to Engr. Technology, Engr. Problem Solving	2	2	4
ENGL 110, 111	Composition I, II	3	3	6
GE HPER	HPER Elective	--	1	1
MCET 102	Machine Lab	--	1	1
MATH 150, INLT 141	Pre-Calculus, Intro to Logistics	4	3	7
PYSC 101, GE HIST	Intro Psychology, History Elective	<u>3</u>	<u>3</u>	<u>6</u>
		<b>15</b>	<b>16</b>	<b>31</b>
<b>SOPHOMORE YEAR</b>				
Global Studies, SPEE 214	Global Studies Elective, Intro. Public Spk	3	3	6
MCET 200, 201, 202	Statics, Strength of Matl. & Lab	3	4	7
GE HPER	HPER Elective	1	--	1
MATH 260, 261	Calculus I, Calculus II	4	4	8
PHYS 105, PHYS 106	Intro to Physics I w/ Lab and Intro to Physics II w/ Lab	<u>4</u>	<u>4</u>	<u>8</u>
		<b>15</b>	<b>15</b>	<b>30</b>
<b>JUNIOR YEAR</b>				
MCET 313, 314, GE LIT	Fluid Mech. & Lab, Literature Elective	4	3	7
MCET311, 301	Dynamics, Intro to Thermo	3	3	6
ENGR 203, ENGR 310	Intro Programming, Engr Economics	3	3	6
MCET 305, 306	Mfg. Matl. and Proc., Machine Design I	3	3	6
PHIL 275, INLT 292	Ethics, Intro to ERP	<u>3</u>	<u>3</u>	<u>6</u>
		<b>16</b>	<b>15</b>	<b>31</b>
<b>SENIOR YEAR</b>				
INLT 383	Quality Management	3	--	3
ELET 410	Intro Electricity and Electronics	3	--	3
MCET 401, 404	Applied Thermo & Energy Lab	4	--	4
Free Elective, MCET 441	Free Elective, Heat Transfer	3	3	6
INLT 485	Project Management	--	3	3
MCET 421, 422	Hydraulics and Pneumatics & Lab	--	4	4
MCET 415, 416	Instrum and Control & Measurements Lab	--	4	4
ENGT 420, 421	Senior Project I, Senior Project II	<u>3</u>	<u>2</u>	<u>5</u>
		<b>16</b>	<b>16</b>	<b>32</b>

Total Program Semester hours

**DEPARTMENT OF TECHNOLOGY  
INFORMATION LOGISTICS TECHNOLOGY  
Bachelor of Science Degree**

		Semester Hours		Total Hrs
		1st Sem	2nd Sem	
<b>FRESHMAN YEAR</b>				
ENGL 110, 111	Composition I and II	3	3	6
MATH 122, MATH 212	Finite Mathematics / Intro to Calculus	3	3	6
ENGR 200	Engineering Graphics	3	--	3
INLT 201	Technology, Society and Development	3	--	3
ECON 210	Principles of Microeconomics	3	--	3
ELECTIVE	Wellness / Health	2	--	2
HIST 122 or 123	United States History	--	3	3
INLT 141	Introduction to Logistics Distribution	--	3	3
INLT 212	Principles of Technology	--	3	3
		<b>17</b>	<b>15</b>	<b>32</b>
<b>SOPHOMORE YEAR</b>				
ELECTIVE	Literature Elective	3	--	3
INLT 245	Industrial Distribution	3	--	3
PHYS 105, PHYS 106	Introduction to Physics I and II	4	4	8
INLT 249	Materials & Processes Safety & Analysis	3	--	3
INLT 290	Introduction to Database Applications	3	--	3
	Introduction to Enterprise Resource			
INLT 292	Planning	--	3	3
ELECTIVE	Free Elective	--	3	3
STAT 210	Elementary Statistics I	--	3	3
INLT 359	Industrial and Organization Management	--	3	3
		<b>16</b>	<b>16</b>	<b>32</b>
<b>JUNIOR YEAR</b>				
ELECTIVE	INLT Elective	3	--	3
PHIL 140	Philosophy	3	--	3
INLT 320	Intro to ERP and Financial Accounting	3	--	3
INLT 345	Transportation Logistics	3	--	3
INLT 444	Enterprise Resource Planning	3	--	3
INLT 451	Analytics/Business Intelligence	--	3	3
INLT 385	Cost Estimating	--	3	3
INLT 383	Quality Management	--	3	3
ELECTIVE	INLT Elective	--	3	3
ELECTIVE	Free Elective	--	3	3
		<b>15</b>	<b>15</b>	<b>30</b>
<b>SENIOR YEAR</b>				
INLT 480	Facilities Planning and Management	3	--	3
INLT 445	Procurement Management	3	--	3
INLT 447	Supply Chain Management	3	--	3
INLT 485	Project Management	3	--	3
ELECTIVE	Global Studies Elective	3	-	3
INLT 448	Global Logistics	--	3	3
ELECTIVE	INLT Elective	--	3	3
ELECTIVE	Free Elective	--	3	3
ENGT 420	Senior Project I	--	3	3
		<b>15</b>	<b>12</b>	<b><u>27</u></b>

**Total Program Semester Hours 121**

## INFORMATION AND LOGISTICS TECHNOLOGY MINOR

	<b>Require Courses</b>	<b>Semester Hours</b>
INLT 141	Introduction to Logistics	3
INLT 245	Industrial Distribution	3
INTL 345	Transportation Logistics	3
INLT 292	Intro to Enterprise Resource Planning	3
INLT 447/INLT 485	Supply Chain Mgmt/Proj. Mgmt	3
INLT 445/INLT 383	Procurement Mgmt/Quality Mgmt	3
	<b>Total</b>	<b>18</b>

# College of Humanities and Social Sciences

**Dean:** Andrew J. Kanu  
202 Harris Hall  
(804) 524-5478

## Mission

The mission of the College of Humanities and Social Sciences is to develop and continuously enhance a perpetually contemporary global standard of excellence that prepares students to assume productive leadership roles anywhere in the world. To this end, highly effective faculty, staff, and administrators provide leadership for programs that integrate instruction, technology, research, the ethic of service, and professional development programs and activities. In accordance with the long-standing tenets of the liberal arts, the College's philosophy of education is that of liberation of the mind and spirit in facilitation of exploration, discovery, and new ideologies.

Toward fulfillment of this mission, the following are College of Humanities and Social Sciences guiding operational principles:

- *Accountability* – The 21st century Institution of Higher Education (IHE) is accountable to a myriad of private, governmental, and professional stakeholder groups whose primary interest is institutional effectiveness in all facets of operation, whether fiscal, curricular, programmatic, administrative, or others. The College is committed to maintain an aggressively nimble operational paradigm focused solely upon student achievement and institutional effectiveness.
- *Assessment* – Outcomes-based educational products are arguably the central emphasis of the 21st century academic enterprise. Accordingly the College's model is designed to ensure that program completers fluently represent the knowledge, skills, and dispositions espoused by each of the academic units.
- *Authentic Engagement* – The term authentic engagement means one is authentically involved in their curriculum where the assigned task is associated with an outcome that has a clear meaning and value to the student (LeBaron & Santos, 2005; Schlechty, 2002). Authentic engagement stipulates that the learner has intrinsic motivation to work on an assignment. Essentially, the College's embodiment of authentic engagement—in accordance with VSU's core values—invites the student to concomitantly examine content through the eyes of the experts and through their own lives. In this way, the learner becomes acutely aware of how he/she learns and, in turn, is able to get the most out of the curriculum. Authentic engagement, then, requires intense, exacting preparation, knowledge of learning styles, and pedagogical acuity. Authentic engagement encompasses mentoring and retooled iterations of action learning/research.
- *Lifelong Learning* – The concept of lifelong learning is the byproduct of the infusion of technology (specifically, the availability of, and accessibility to, information) into teaching, learning, and research, which has substantially and rapidly change methodology, procedure, policy, and/or practice in most disciplines. Thus, the well-prepared professional must be disposed to the ongoing development and currency of his/her knowledge and skill sets. College of Humanities and Social Sciences is committed to the development of the lifelong learning dispositions necessary for the professional success of students, faculty, and staff.

- *Individual and Professional Development* – The ongoing development of faculty and students is integral to the teaching-learning paradigm. The pervasive use of technology is one driver of rapidly increasing discovery in all disciplines, thus, faculty must be perpetually engaged in scholarly activity in their respective disciplines. Students, then, are the beneficiaries of these activities toward self-actualization as well as pre-professional development.
- *Research* – Consistent with the university’s goals, the College supports and facilitates a three-tiered structure to perpetuate its research agenda: (1) discovery or new knowledge that inform the global community and the discipline; (2) new research/learning opportunities for students; and (3) School and University niche and global reputation.
- *Access* – Historically Black Colleges and Universities (HBCUs) have been bastions of opportunity for those who did not have access to higher education. The College of Humanities and Social Sciences is committed to—through authentic engagement—access and support for those who demonstrate the potential and dispositions conducive to advanced learning.
- *Collaboration* – Partnerships across disciplines, with internal and external stakeholders, and the professional realm are essential to the comprehensive educational product offered to students and central to the University’s mission to serve the communities to which it is intrinsically bound.

## **Organization of the College**

The College of Humanities and Social Sciences consists of eight undergraduate departments and the ROTC Department. Programs focusing on the humanities and social sciences serve to strengthen critical thinking and analysis, problem-solving capabilities, communication skills and interpretive insights.

## **Major Programs of Undergraduate Study**

Students pursuing undergraduate study may major in the following programs:

### **Art and Design**

Art and Design

Concentrations: Studio Art, Animation, Graphic Design, & Web Design

### **History and Philosophy**

History

History, Secondary Teaching Endorsement

### **Languages and Literature**

English

English, Secondary Teaching Endorsement

### **Mass Communications**

Concentrations: Print Media, Radio & Television, & Public Relations

### **Military Science (Minor)**

### **Music**

Music

Choral Music Teaching Endorsement (Vocal)

Instrumental Music Teaching Endorsement (Brass, Percussion, String) Music Performance (Instrument, Keyboard, Vocal) and Sound Recording Technology

**Political Science**

Political Science  
Public Administration (Minor)

**Sociology / Criminal Justice**

Criminal Justice  
Sociology

**Social Work**

Social Work

**Special Facilities and Equipment**

WVST, the campus radio station, and the Virginia State Television Network (VSUN), the units under the University Academic Technology Department provide production skill training and teach the use of current technologies. Computer-assisted writing laboratories assist students with special problems.

**Organizations and Clubs**

There are many groups students can join to satisfy their intellectual interests or provide opportunities for co-curricular pursuits. There are clubs connected to academic disciplines that provide informal forums to discuss topics of interest in politics, languages, science, history, computers, literature, technology, and business, among others.

## DEPARTMENT OF ART AND DESIGN

<b>Chairperson:</b>	Ann E. Ford (Interim) Fauntleroy Hall, Room 102 (804) 524-1153
<b>Associate Professors</b>	Thomas Larose, Ann E. Ford
Instructor	Anh Do

### Description of the Program

The Art and Design program, accredited by NASAD, the National Association of Schools of Art and Design, offers courses leading to a Bachelor of Fine Arts degree. All students begin with the CORE program (Communication, Organization, Realization, Expression), covering the first two years, which produces a strong understanding of the design fundamentals and applications of traditional art media. Foundation level courses, including two-dimensional and three-dimensional design, color theory, drawing, and computer fundamentals, are designed to prepare students to begin their advanced concentration coursework in the sophomore year.

Students in the program can decide from four primary career paths: Studio Arts, Animation, Graphic Design, or Web Design. The Studio Arts curriculum prepares students for traditional artistic careers in the disciplines of drawing, painting, printmaking, sculpture, and ceramics. As they follow their specific media through four sequential courses, students can shape their own curricula to span across traditional artistic boundaries and learn a variety of media specially designed to meet their needs and creative desires. This artistic “cross training” permits students to expand their creative horizons through the use of new media tools, techniques, and concepts, and become the artistic leaders of the 21st century.

The Animation program teaches students the principles and skills of animating in both traditional drawing and computerized formats. The curriculum is designed to prepare students to enter into graduate programs of study in animation, and/or entry-level apprentice positions within the industry.

In the Graphic Design curriculum, students follow a structured curriculum that gives them all of the knowledge and skills necessary to compete in today’s commercial arts marketplace. The program prepares students for careers as commercial artists in such areas as illustration, print and package design.

The Web Design program places emphasis on the aesthetic aspects of creating web sites, along with the practical components of digital information transfer. The curriculum prepares students to enter the workforce as skilled designers of web sites for a wide variety of customers, from personal pages to international businesses.

Acceptance into the Art CORE Program is contingent on:

- 1) acceptance into the University according to its criteria for incoming freshmen or transfer students;
- 2) a minimum of 2.0 GPA with good standing in the University for current VSU students; display of artistic knowledge and ability through either the successful completion of two (2) art classes at a high school, junior college, or continuing education level, or submission of two (2) letters of recommendation by artists and/or art educators.

Advancement to the specific concentrations (Studio, Animation, Graphic Design, Web Design) in the sophomore year is dependent on a review of the student’s portfolio of art work, along with the successful completion of all prerequisite courses, in proper sequence, with a minimum of a ‘C’ grade.

## Mission of the Department

The mission of the Art and Design Department at Virginia State University is to produce the artists of tomorrow, one individual at a time. Our faculty is committed to the artistic development of each student as a unique individual through the process of instruction and mentorship. Our goal is to prepare students for success in whatever professional arena of art they choose by providing a solid base of artistic knowledge and technical skill, then encouraging creative exploration and stylistic development from this foundation. Through the creative work and service of our students and faculty, we hope to engender a broader appreciation for the arts to enhance the vitality of the university and surrounding community.

## Objectives of the Program

- Students will demonstrate an entry-level competence for a professional in their area of specialization, including technical mastery of their media, understanding and use of the concepts of design, and the ability to clearly communicate the intended message.
- Students will demonstrate the ability to develop a cohesive artistic concept (theme) evident throughout a body of work produced in their chosen media.
- Students will be able to research, form and defend value judgments about art and design in both written and oral statements. The student will effectively communicate these ideas as related to their major fields of practice to professionals and lay persons alike.

## MAJORS:

Bachelor of Fine Arts in Visual Arts with Concentration in:

- Studio Art
- Animation
- Graphic Design
- Web Design

## MINORS:

Animation Minor

To be eligible, a student must complete:

ARTS 215 Intro. To Animation	3 credits
ARTS 225 Electronic Animation	3 credits
ARTS 315 Sound for Animation	3 credits
ARTS 325 Animation Basic I	3 credits
ARTS 330 Animation I	3 credits
ARTS 335 Animation Basic II	3 credits
<b>Total</b>	<b>18 credits</b>

## Art History Minor

To be eligible, a student must first complete ARTS 301 and ARTS 302 (World Art Survey I and II) with a grade of 'C' or higher. After successful completion of these two courses, the student must complete an additional 4 courses (12 hours) of Art History at the 300 and 400 levels and/or VCAD 200 - Graphic Design History, for a total of 18 credit hours.

## Graphic Design Minor

To be eligible, a student must complete:

VCAD 200 Graphic Design History	3 credits
VCAD 201 Typography I	3 credits
VCAD 202 Typography II	3 credits
VCAD 203 Graphic Design I	3 credits
VCAD 205 Graphic Design II	3 credits
VCAD ____ Restricted Elective	3 credits
<b>Total</b>	<b>18 credits</b>

## Photography Minor

To be eligible, a student must complete:

ARTS 103 2D Design	3 credits
VCAD 206 Basic Photography	3 credits
VCAD/ARTS 3 Photography courses	9 credits
ARTS 407 History of Photography	3 credits
<b>Total</b>	<b>18 credits</b>

## Studio Art Minor

To be eligible, a student must first complete, in sequential order the courses below, with a grade of 'C' or higher, for a total of 12 credit hours. After successful completion of these core requirements, the student must complete an additional 2 courses (6 hours) of Art Studio at the 300 and 400 levels in the same media concentration, for a total of 18 credit hours.

ARTS 101 (Drawing I)  
ARTS 102 (Drawing II) or ARTS 202 (Life Drawing)  
ARTS 103 (2D Design)  
ARTS 104 (Color Theory) or ARTS 207 (3D Design)

## Web Design Minor

To be eligible, a student must complete:

VCAD 203 Graphic Design I	3 credits
VCAD 205 Graphic Design II	3 credits
VCAD 304 HTML	3 credits
VCAD 305 Web Design I	3 credits
VCAD 314 Web Animation	3 credits
VCAD 401 Web Design II	3 credits
<b>Total</b>	<b>18 credits</b>

**ART AND DESIGN**  
**Course Descriptions**

**FOUNDATION (CORE) COURSES**

**ARTS 101 DRAWING I – 3 semester hours**

Introduction to the fundamentals of drawing expression. Pencil, charcoal, conte, and wash media are explored. Course includes weekly critiques and discussions.

**ARTS 102 DRAWING II – 3 semester hours**

Continuation of drawing expression. Introduction to linear perspective, foreshortening, and the use of color. Pencil, charcoal, conte, pastels, prisma color, and wash media are explored. Course includes weekly critiques and discussions.

**Prerequisites: ARTS 101**

**ARTS 103 TWO DIMENSIONAL DESIGN – 3 semester hours**

Introduction to the fundamental concepts of two dimensional design, color theory, form relationships and their function in various design situations. Contemporary and traditional concepts of design principles and elements are explored. Course includes critiques and discussions.

**Art & Design Majors & Minors Only Course**

**ARTS 104 TWO DIMENSIONAL DESIGN- COLOR THEORY – 3 semester hours**

Examination of the interaction of color through studio experience and the manipulation of color to achieve various effects for problem solving and individual expression. Course includes critiques and discussions.

**Prerequisites: ARTS 101 and 103**

**ARTS 108 COMPUTERS FOR ARTISTS – 3 semester hours**

An introductory course in the hardware, software, set-up, and use of computers, specifically designed for the needs of artists. Basic hardware and peripherals set-up, use of operating systems and artist-based programs for both Macintosh and PC systems.

**Art & Design Majors Only Course.**

**ARTS 202 LIFE DRAWING I – 3 semester hours**

Continuation of drawing fundamentals and expression introduced the previous year using the human figure as the means of study. Pencil, charcoal, conte and wash media are explored. Course includes weekly critiques and discussions.

**Prerequisites: ARTS 102 and 103**

**ARTS 209 COGNITIVE DEVELOPMENT FOR THE ARTIST - 3 semester hours**

Increasing the creativity of artists through the mental processes of perception, memory, judgment, and reasoning. Emphases on different methodologies for creative development of individual and group artwork.

**Prerequisites: ARTS 102 and 104**

## STUDIO ART COURSES

### **ARTS 203 PRINTMAKING I – 3 semester hours**

Fundamentals of graphic expressions employed in woodcuts, etchings, lithography and other vehicles for graphic reproductions. Course includes weekly critiques and discussions.

**Prerequisites: ARTS 102**

### **ARTS 204 PRINTMAKING II – 3 semester hours**

Continuation of graphic expressions employed in woodcuts, etchings, lithography and other vehicles for graphic reproductions. Course includes weekly critiques and discussions.

**Prerequisites: ARTS 203**

### **ARTS 206 WATERCOLOR – 3 semester hours**

Introduction to the fundamentals of transparent and opaque watercolor painting techniques.

**Prerequisites: ARTS 102**

### **ARTS 207 THREE DIMENSIONAL DESIGN – 3 semester hours**

Introduction to the functional concepts of three-dimensional design. Form relationships as applied to the elements and principles of design. Course includes critiques and discussions.

**Prerequisites: ARTS 102 and 104**

### **ARTS 208 PERSPECTIVE DRAWING - 3 semester hours**

Examination of perspective as a technique of depicting volumes and spatial relationships on a flat surface. Emphasis on the development of comprehension in perspective through drawing exercises and projects.

**Prerequisites: ARTS 102 and 103**

### **ARTS 212 LIFE DRAWING II – 3 semester hours**

Advanced development of drawing skills using the human figure as means of expression. Techniques such as gesture, abstraction, composition, and foreshortening are explored using a variety of wet and dry media.

**Prerequisites: ARTS 202**

### **ARTS 216 2D METHODS AND MATERIALS - 3 semester hours**

Overview of the tools, materials, and processes of two-dimensional media. Emphasis on the manipulation and safe handling of materials and tools, their use in artistic expression, and historical development.

**Prerequisites: ARTS 102 and 104**

### **ARTS 217 3D METHODS AND MATERIALS - 3 semester hours**

Overview of the tools, materials, and processes of three-dimensional media. Emphasis on the manipulation and safe handling of materials and tools, their use in artistic expression, and historical development.

**Prerequisites: ARTS 102 and 104**

### **ARTS 303 SCULPTURE: WOOD – 3 semester hours**

**Odd** Exploration of sculptural fundamentals, emphasizing materials (cardboard and wood) and methods (both additive and subtractive). Course includes weekly critiques and discussions.

**Prerequisites: ARTS 207**

### **ARTS 304 SCULPTURE: MOLD MAKING – 3 semester hours**

In-depth exploration of the three-dimensional concepts, skills, and processes for mold making and plaster casting as generated from clay models. Emphasis is placed on the development of design and construction skills, concept realization, and creative personal invention. Course includes weekly critiques and discussions.

**Prerequisite: ARTS 207**

**ARTS 305 PAINTING: STILL LIFE – 3 semester hours**

Fundamentals of painting in oil and acrylics introduced through the imagery of the still life. Traditional and experimental painting processes are explored. Course includes weekly critiques and discussions.

**Prerequisites:** ARTS 216

**ARTS 306 PAINTING: LANDSCAPE – 3 semester hours**

Continuation of painting in oil and acrylics using the imagery of the landscape. Traditional and experimental painting processes are explored. Course includes weekly critiques and discussions.

**Prerequisites:** ARTS 216

**ARTS 309 CERAMICS: HAND BUILDING – 3 semester hours**

Exploration of ceramic design, basic forming, and firing techniques. Focus is on the basic construction techniques (pinch, coil, and slab), and finishing techniques in ceramic media including hand building, fabrication, surface design, glazing, and kiln firing. Course includes weekly critiques and discussions.

**Prerequisites:** ARTS 207

**ARTS 310 CERAMICS: WHEEL THROWING - 3 semester hours**

Development of skills with a focus on wheel throwing. In addition to being introduced to the potter's wheel, students develop their glazing techniques, knowledge of ceramics, and its terminology. Emphasis is placed on the development of design and construction skills with ceramic materials, concept realization, and creative personal invention. Course includes weekly critiques and discussions.

**Prerequisites:** ARTS 207

**ARTS 312 ADVANCED DRAWING: 3 credit hours.**

An advanced exploration of the traditional history, methods, and materials of drawing for students who have mastered basic drawing skills and who wish to develop them to enhance visual thinking. Studio approach using live model, via anatomical and perspective approaches to drawing. Emphasis is placed on the technical mastery of drawing techniques and media.

**Prerequisite:** ARTS 212

**ARTS 313 BLACK AND WHITE PHOTOGRAPHY I - 3 semester hours**

An introduction to the basics of black and white photography will be covered to include: Basic features and operation of an SLR (manual) camera, black and white film processing, and darkroom procedures. Students will participate with basics of composition, design, lighting, printing, processing, and final print presentation. Students will learn how to develop film, process prints, and other printing controls such as dodging, burning, and the use of filters. The concentration is placed on photography as a fine art medium. Students should have a 35mm film camera that includes manual controls.

**Prerequisites:** VCAD 206

**ARTS 314 BLACK AND WHITE PHOTOGRAPHY II - 3 semester hours**

A continuation of the exploration of traditional wet process photography, with emphasis on developing film, processing prints, and other printing controls such as dodging, burning, and the use of filters. The concentration is placed on photography as a fine art medium. Students should have a 35mm film camera that includes manual controls.

**Prerequisites:** ARTS 313

**ARTS 404 ART OF THE MOTION PICTURE: 3 credit hours.**

Discussion in a seminar setting of the artistic development of the motion picture from its early beginnings to the present, with both technical (editing, production) and aesthetic (cinematography) consideration.

Students engage in analysis and discussion after viewing selected films. Prerequisites: Students must have at least junior status or special permission from the instructor.

**ARTS 409 CERAMICS: MOLD MAKING - 3 semester hours**

Examination of ceramic mold making, slip casting, and clay/glaze formulation. Course includes weekly critiques and discussions.

**Prerequisites: ARTS 207**

**ARTS 410 CERAMICS: MIXED MEDIA - 3 semester hours**

Exploration of mixed media formats and techniques to begin the development of a personal style through the creation of a series of related ceramic pieces.

**Prerequisites: ARTS 207**

**ARTS 412 EXPERIMENTAL DRAWING - 3 credit hours**

An exploration of the contemporary conceptual and creative approaches to drawing. Emphasis on the expansion of the definition of drawing through the use of unfamiliar/unexpected materials, methods, and theories for visual thinking.

**Prerequisite: ARTS 312**

**ARTS 413 SCULPTURE: METAL – 3 semester hours**

**Even** Exploration of three-dimensional concepts, skills, and processes with an emphasis on metal fabrication. Using the machinery of the woodshop, expand technical vocabulary with tools such as MIG welders, oxy- acetylene torches, grinders, and chop saws. Course includes weekly critiques and discussions.

**Prerequisites: ARTS 207**

**ARTS 414 SCULPTURE: MIXED MEDIA – 3 semester hours**

Exploration of conceptual and expressive problems in a variety of sculptural media and various sculptural processes which may include casting, metal fabrication, and/or wood sculpture techniques. Course includes weekly critiques and discussions.

**Prerequisites: ARTS 207**

**ARTS 415 PAINTING: FIGURE – 3 semester hours**

Fundamentals of painting in oil and acrylics introduced through the imagery of the human figure. Traditional and experimental painting processes are explored. Course includes weekly critiques and discussions.

**Prerequisites: ARTS 216**

**ARTS 416 PAINTING: MIXED MEDIA – 3 semester hours**

**Odd** Continuing in-depth study of painting formats and techniques integrating various media to begin the development of a personal style through the creation of a series of related paintings.

**Prerequisites: ARTS 216**

**ANIMATION COURSES**

**ARTS 215 INTRODUCTION TO ANIMATION - 3 semester hours**

Introduction to the history and methodology of animation. Regular animation screenings of commercial and experimental works with students responding to the work orally and/or in written form.

**ARTS 225 ELECTRONIC ANIMATION - 3 semester hour**

Introduction to the various software, hardware, and equipment used in the creation of animation.

**Prerequisite: ARTS 215**

**ARTS 315 SOUND FOR ANIMATION - 3 semester hours**

Examination of the basic theory and methodology of sound design. Project emphasis is on the creation of sound for use in animation.

**Prerequisite: ARTS 225**

**ARTS 325 ANIMATION BASIC I - 3 semester hours**

Examination of the principles that govern animation. Student will explore these principles through various exercises and projects.

**Prerequisite:** ARTS 225

**ARTS 335 ANIMATION BASIC II - 3 semester hours**

Exploration of the principles of special effects animation. Exploration of these principles through various exercises and projects. Sound will also be incorporated into their animation.

**Prerequisite:** ARTS 325

**ARTS 425 ANIMATION BASIC III - 3 semester hours**

Examination of experimental animation. Exploration of any available methodology/technology for animation exercises and projects.

**Prerequisite:** ARTS 335

**ARTS 330 ANIMATION I - 3 semester hours**

Examination of animation components for the identification of individual strengths in animation methodology through the completion of animation exercises and projects.

**Prerequisite:** ARTS 325

**ARTS 430 ANIMATION II - 3 semester hours**

Writing and production of individual animation(s) in preparation for senior studio.

**Prerequisite:** ARTS 330

**ARTS 435 ANIMATION TEAM - 3 semester hours**

Examination of animation production management. Students will take turns in different roles from pre-production to post-production of animation projects.

**Prerequisites:** ARTS 425 and 430

**ARTS 440 SENIOR ANIMATION STUDIO - 3 semester hours**

Preparation for the transition from formal academic study to animation career pursuit. Emphasis on creation of a demo reel, resumes, and portfolio.

**Prerequisites:** ARTS 425 and 430

**ART HISTORY COURSES****ARTS 301 WORLD ART SURVEY I – 3 semester hours**

Examination of the key stages in the evolution of art and architecture from around the world until approximately 1400 CE. Emphasis on understanding the visual language of art as an expression of relationships to the cultural, historical, and philosophical contexts in which the artist lives.

**ARTS 302 WORLD ART SURVEY II – 3 semester hours**

Examination of the key stages in the evolution of art and architecture from around the world from approximately 1400 CE to today. Emphasis on understanding the visual language of art as an expression of relationships to the cultural, historical, and philosophical contexts in which the artist lives.

**ARTS 307 MODERN ART: 1860 - 1960 – 3 semester hours**

Examination of the historical styles and artists of the 'Modern' period from 1860 through 1960, how they compare and relate to previous periods, and how they have been influenced by social and political conditions.

**Prerequisites:** Students must have junior status or special permission from the instructor.

**ARTS 403 SURVEY OF AFRICAN-AMERICAN ART – 3 semester hours**

Examination of art produced by African-Americans in the United States from the Colonial Period to present. Exploration of the social and political climates influencing the art of African-Americans.

**Prerequisites:** Students must have junior status or special permission from the instructor.

**ARTS 405 SURVEY OF AFRICAN ART – 3 semester hours**

Exploration of the major forms of art and architecture produced by various cultures of Africa. Examination of the art forms and their places within society for pre-historic and ancient civilizations, medieval empires, and the peoples of the Colonial Period in northern, western, central, southern, and east Africa.

**Prerequisites: Students must have junior status or special permission from the instructor.**

**ARTS 407 HISTORY OF PHOTOGRAPHY – 3 semester hours**

A visually oriented history of the development of photography from its earliest manifestations to today and explores photography's applications as a commercial enterprise, a documentary tool, a cultural force and a means of personal expression. Although the emphasis is on photography as a fine art and its relationship to the other arts, topics include documentary photography and photojournalism, fashion and portraiture, and the use of photography in mass media.

**Prerequisites: Students must have at least junior status or special permission from the instructor.**

**VCAD 200 GRAPHIC DESIGN HISTORY – 3 semester hours**

Exploration of the evolution of graphic communications from prehistoric times to the development of modern graphic design. The uses of and styles of graphic design will be covered.

**Art & Design Majors Only Course**

**GRAPHIC DESIGN COURSES****VCAD 201 TYPOGRAPHY I - 3 semester hours**

A study of typography fundamentals. History and development of lettering and type reproduction methods. Exploration of letterform aesthetics and communication value through practical design projects. For Graphic Design majors only.

**Prerequisites: ARTS 102 and 108**

**VCAD 202 TYPOGRAPHY II - 3 semester hours**

An advanced exploration of typography. Functional and expressive type treatments and the effective implementation of type as a visual communication tool. Emphasis placed on the development of ideas and the ability to communicate them effectively. Introduction to proofreading and editing type. For Graphic Design majors only

**Prerequisite: VCAD 201**

**VCAD 203 GRAPHIC DESIGN I – 3 semester hours**

An introductory survey to the professional field of graphic design as related to print, multimedia, entertainment, environmental and other areas of visual communications. Emphasis on fundamental principles and skills with a broad approach to the application of techniques and concepts of the field.

**Prerequisites: ARTS 102 and 108**

**VCAD 205 GRAPHIC DESIGN II - 3 semester hours**

An advanced investigation of the professional field of graphic design as related to print, multimedia, entertainment, environmental and other areas of visual communications. Emphasis on the principles and skills of graphic design with a broad approach to the application of techniques and concepts of the field.

**Prerequisite: VCAD 203**

**VCAD 206 BASIC PHOTOGRAPHY - 3 semester hours**

An introduction to photography, emphasizing the basic operation of a camera. Students will learn to adjust the settings for exposure, speed, and light conditions. Course includes the regular critiques of student work and discussions of photographic fundamentals.

**Prerequisites: ARTS 102 or permission of instructor**

**VCAD 207 DIGITAL PHOTOGRAPHY I - 3 semester hours**

A digital approach to photography as a communication tool. The course emphasizes the use of the digital camera and photo-correction software and techniques. Course includes the regular critiques of student work and discussions of photographic fundamentals.

**Prerequisites:** VCAD 206

**VCAD 300 ILLUSTRATION I - 3 semester hours**

Emphasis on the fundamentals of rendering images while exploring various media and techniques. For Graphic Design majors only.

**Prerequisites:** ARTS 202 and 208

**VCAD 301 SILKSCREEN PROCEDURES – 3 semester hours**

Introduction to the various silkscreen procedures employed in advertising art and design. Exploration of hand-cut stencils and photographic processes.

**Prerequisites:** ARTS 202

**VCAD 302 PRINT I - 3 semester hours**

Introduction to the printing process. Examination of commercial printing: the presses, inks, paper, and finishing. The pre-press operations to prepare digital files will be emphasized.

**Prerequisites:** VCAD 202, 205

**VCAD 307 DIGITAL PHOTOGRAPHY II - 3 semester hours**

Students will explore the creative use of digital cameras, and digital printing techniques. Imaging software will be used for editing and printing techniques. Students will learn advanced lighting, cropping, and formatting techniques. Course includes the regular critiques of student work and discussions of photographic fundamentals.

**Prerequisites:** VCAD 207

**VCAD 310 ILLUSTRATION II - 3 semester hours**

Creating illustrations for editorial and business communications using traditional and digital media. For Graphic Design majors only.

**Prerequisites:** VCAD 300

**VCAD 312 PRINT II - 3 semester hours**

Designing print media using experimental formats, as well as special multi-media materials and techniques. For Graphic Design majors/minors only.

**Prerequisites:** VCAD 302

**VCAD 315 PUBLICATION DESIGN - 3 semester hours**

Analysis of professional design studio problems and processes related to publication design. Integrating cohesive design solutions, strategies, grid structures, layouts and compositions throughout multi-page formats. For Art & Design majors only.

**Prerequisites:** VCAD 202 and 205

**VCAD 400 EDITORIAL ILLUSTRATION - 3 credit hours**

Course devoted to generating commercial illustrations based on printed and digital publications with an understanding of the history of editorial illustration and its role in commercial art today. Contracts and forms, time management, client relationships and current trends are explored.

**Prerequisite:** VCAD 310

**VCAD 410 VISUAL NARRATIVE - 3 credit hours**

Illustration-heavy course devoted to exploring the art of visual storytelling and character development. Proficiency in digital and traditional illustration required.

**Prerequisite:** VCAD 400

**VCAD 415 PACKAGE DESIGN - 3 semester hours**

Professional design studio processes and procedures related to packaging design. Developing brand identity and focusing on product positioning, while designing the three dimensional structure. For Art & Design majors only.

**Prerequisites:** VCAD 202 and 205

**VCAD 416 ADVERTISING DESIGN - 3 semester hours**

An introduction to advertising fundamentals. Development and implementation of strategic design concepts across multi-vehicle marketing materials. For Art & Design majors only.

**Prerequisites:** VCAD 202 and 205

**VCAD 430 PORTFOLIO - 3 semester hours**

Exploring the various methodologies for creating a professional portfolio and resume. For Art & Design majors only.

**Prerequisites:** Senior status

**VCAD 489 STRATEGIC DESIGN - 3 credit hours.**

Students will be selected to work with area nonprofit clients to create and produce a wide variety of fully designed advertising and promotional materials. Students will work in teams to develop brand, marketing, and design strategies, write creative briefs, recruit teams to work with them during CreateAthononCampus (a 24 hour creative event held during Spring Break), present works to clients, and follow any deliverables through to production. Strong emphasis on leadership, team work, and a commitment to working with nonprofits.

**Prerequisite:** Permission by Instructor.

**VCAD 499 —SPECIAL TOPICS IN GRAPHIC DESIGN: 3 credit hours.**

An investigation of special/current topics in graphic design of a particular interest to advanced students. Content varies with each semester. May be repeated for credit.

**Prerequisites:** VCAD 202, 205

**VCAD 450 INTERNSHIP - 3 semester hours**

Pragmatic work experience under the supervision of qualified professional practitioners. For Art & Design majors only.

**Prerequisites:** VCAD 202 and VCAD 205

**VCAD 451 SENIOR THESIS PROJECT – 3 semester hours**

Examination of the business aspects of the commercial art world. Culminates in a formal presentation of a cohesive body of work before a departmental committee.

**Prerequisites:** Senior status

**WEB DESIGN COURSES****VCAD 304 HTML – 3 semester hours**

Exploration of the language and structure of HTML documents, markup techniques, and validation. Topics include text formatting, lists, tables, META tags, and CSS.

**Prerequisites:** VCAD 202 and 205

**VCAD 305 WEB DESIGN I – 3 semester hours**

Introduction to the planning and development of useful, aesthetically appealing web sites through the effective use of navigation techniques with the creative use of graphics, sound and typography.

**Prerequisite:** VCAD 304

**VCAD 314 WEB ANIMATION – 3 semester hours**

Exploration of the effective use of animations in web site design and the graphics software used to make them.

**Prerequisite: VCAD 304**

**VCAD 401 WEB DESIGN II – 3 semester hours**

Advanced work in the planning and development of useful, aesthetically appealing web sites. Students will learn the effects of browser choices and computing platforms on their design choices and should gain a critical eye for evaluating web site designs.

**Prerequisite: VCAD 305**

**VCAD 411 WEB DESIGN III – 3 semester hours**

Continuing in-depth study of web design formats and techniques to begin the development of a personal style through the creation of a series of extended web sites utilizing a variety of graphics.

**Prerequisite: VCAD 401**

**GENERAL EDUCATION COURSES (NON-MAJORS)****ARTS 199 ART APPRECIATION – 3 semester hours**

An introduction to the study and understanding of the visual arts. The various methods through which humans are able to access, interpret, and interact with art will be discussed. Topics include various cultural definitions of art and its use, the elements of design, the characteristics of art media, and the interpretation of content. Emphasis is placed on the areas of painting, sculpture, and architecture, but other areas (drawing, graphics, crafts, etc.) are discussed.

**ARTS 200 ART CRAFTS – 3 semester hours**

Introduction to the functional and decorative handicrafts through a variety of media.

**ART & DESIGN**  
**Curricular Summary**

**General Education requirements for all Art & Design concentrations:**

English:	6 credits	ENGL 110, ENGL 111
Literature:	3 credits	from menu
Mathematics:	6 credits	MATH 112, MATH 113 (or higher)
Health/Wellness:	2 credits	HPER 170 (or from menu)
Science:	4 credits	BIOL 116 (or from menu)
Social Science:	3 credits	from menu
History:	3 credits	HIST 114 or HIST 115
Humanities:	3 credits	ARTS 301* or ARTS 302*
Global Studies:	3 credits	HIST 114 or HIST 115
<b>Total</b>	<b>33 credits</b>	

**\*Major requirements.**

**Major Requirements**

Animation:	78 credit hours*
Graphic Design:	78 credit hours*
Studio:	78 credit hours*
Web Design:	81 credit hours*

**\*NASAD accreditation requires a minimum of 72 credit hours in Art & Design courses for BFA degree.**

**Electives (free):**

Animation:	15 credit hours
Graphic Design:	15 credit hours
Studio:	12 credit hours
Web Design:	12 credit hours

**Minor Requirements: None**  
**Semester**

**BFA IN VISUAL ARTS**  
**Animation Concentration**

	Course Title			Credits	Grade	Transfer	
<b>FRESHMAN</b>							
<i>Fall</i>	ARTS	101	Drawing I	3			
	ARTS	103	2D Design	3			
	ARTS	199	Art Appreciation	3	-----	-----	
	ENGL	110	Composition I	3			
	MATH	112	Basic Math I	3	-----	-----	
<i>Spring</i>	ARTS	102	Drawing II	3			
	ARTS	104	Color Theory	3			
	ARTS	108	Computers for Artists	3			
	ENGL	111	Composition II	3	-----	-----	
	MATH	113	Basic Math II	3	-----	-----	
		HPER	170	Wellness/Health	2		
<b>SOPHOMORE</b>							
<i>Fall</i>	ARTS	202	Life Drawing I	3			
	ARTS	208	Perspective Drawing	3			
	ARTS	209	Cognitive Development For the Artist	3	-----	-----	
	ARTS	215	Intro. To Animation	3	-----	-----	
	-----	----	Science & Lab	4	-----	-----	
<i>Spring</i>	ARTS	212	Life Drawing II	3	-----	-----	
		ARTS	207	3D Design	3		
		ARTS	225	Electronic Animation	3	-----	-----
		ENGL	----	Literature Elective	3	-----	-----
		-----	----	Elective	3	-----	-----
<b>JUNIOR</b>							
<i>Fall</i>	ARTS	301	World Art Survey I	3			
	ARTS	325	Animation Basic I	3	-----	-----	
	ARTS	315	Sound for Animation	3	-----	-----	
	HIST	114	World History I	3	-----	-----	
		-----	----	Elective	3	-----	-----
<i>Spring</i>	ARTS	302	World Art Survey II	3			
	ARTS	335	Animation Basic II	3	-----	-----	
		ARTS	330	Animation I	3		
		HIST	115	World History II	3	-----	-----
		-----	----	Elective	3	-----	-----
<b>SENIOR</b>							
<i>Fall</i>	ARTS	----	Art History Elective	3	-----	-----	
	ARTS	425	Animation Basic III	3	-----	-----	

	ARTS	430	Animation II	3		
	-----	---	Social Science Elective	3	-----	-----
	-----	---	Elective	3	-----	-----
<i>Spring</i>	ARTS	---	Art History Elective	3	-----	-----
	ARTS	435	Animation Team	3	-----	-----
	ARTS	440	Senior Animation Studio	3		
	-----	---	Restricted Elective*	3	-----	-----
	-----	---	Elective	3	-----	-----
			<b>Total Credit</b>	<b>123</b>		

**BFA IN VISUAL ARTS**  
**Graphic Design Concentration**

Semester	Course Title		Credits	Grade	Transfer
<b>FRESHMAN</b>					
<i>Fall</i>	ARTS	101	Drawing I	3	
	ARTS	103	2D Design	3	
	ARTS	199	Art Appreciation	3	-----
	ENGL	110	Composition I	3	
	MATH	112	Basic Math I		-----
<i>Spring</i>	ARTS	102	Drawing II	3	
	ARTS	104	Color Theory	3	
	ARTS	108	Computers for Artists	3	
	ENGL	111	Composition II	3	-----
	MATH	113	Basic Math II	3	-----
	HPER	170	Wellness/Health	2	
<b>SOPHOMORE</b>					
<i>Fall</i>	ARTS	202	LifeDrawing I	3	
	ARTS	208	Perspective Drawing	3	
	ARTS	209	Cognitive Development For the Artist	3	-----
	VCAD	201	Typography I	3	
	VCAD	203	Graphic Design I	3	
<i>Spring</i>	ARTS	212	Life Drawing II	3	-----
	VCAD	200	Graphic Design History	3	
	VCAD	202	Typography II	3	
	VCAD	205	Graphic Design II	3	
	ENGL	---	Literature Elective	3	-----
<b>JUNIOR</b>					
<i>Fall</i>	ARTS	301	World Art Survey I	3	
	VCAD	206	Basic Photography	3	
	VCAD	---	Restricted Elective*	3	-----
	HIST	114	World History I	3	-----
	---	---	Science & Lab	4	-----
<i>Spring</i>	ARTS	302	World Art Survey II	3	
	VCAD	---	Restricted Elective*	3	-----
	HIST	115	World History II	3	-----
	---	---	Social Science Elective	3	-----
	---	---	Elective	3	-----
<b>SENIOR</b>					
<i>Fall</i>	VCAD	---	Restricted Elective*	3	-----
	VCAD	430	Portfolio	3	
	VCAD	450	Internship	3	
	---	---	Elective	3	-----
	---	---	Elective	3	-----
<i>Spring</i>	ARTS	---	Art History Elective	3	-----
	VCAD	---	Restricted Elective*	3	-----
	VCAD	451	Senior Thesis Project	3	-----
	---	---	Elective	3	-----
	---	---	Elective	3	-----
<b>Total Credit</b>			<b>123</b>		

**BFA IN VISUAL ARTS**  
**Studio Arts Concentration**

Number	Course Title	Credit		
<b>FRESHMAN</b>				
<i>Fall</i>	ARTS 101	Drawing I	3	
	ARTS 103	2D Design	3	
	ARTS 199	Art Appreciation	3	
	ENGL 110	Composition I	3	
	MATH 112	Basic Math I	3	
<i>Spring</i>	ARTS 102	Drawing II	3	
	ARTS 104	Color Theory	3	
	ARTS 108	Computers for Artists	3	
	ENGL 111	Composition II	3	
	MATH 113	Basic Math II	3	
	HPER 170	Wellness/Health	2	
<b>SOPHOMORE</b>				
<i>Fall</i>	ARTS 202	Life Drawing I	3	
	ARTS 208	Perspective Drawing	3	
	ARTS 209	Cognitive Development For the Artist	3	
	ARTS 217	3D Methods & Materials Science & Lab	3	-----
			4	
<i>Spring</i>	ARTS 212	Life Drawing II	3	
	ARTS 207	3D Design	3	
	ARTS 216	2D Methods & Materials	3	
	ENGL ____	Literature Elective	3	
	_____	Elective	3	
<b>JUNIOR</b>				
<i>Fall</i>	ARTS 301	World Art Survey I	3	
	ARTS ____	Paint/Sculpt/Ceramics	3	
	ARTS ____	Restricted Elective*	3	
	HIST 114	World History I	3	-----
	_____	Elective	3	
<i>Spring</i>	ARTS 302	World Art Survey II	3	
	ARTS ____	Paint/Sculpt/Ceramics	3	
	ARTS ____	Restricted Elective*	3	
	HIST 115	World History II	3	-----
	_____	Elective	3	
<b>SENIOR</b>				
<i>Fall</i>	ARTS ____	Art History Elective	3	
	ARTS ____	Paint/Sculpt/Ceramics	3	
	ARTS ____	Restricted Elective*	3	
	VCAD 430	Portfolio	3	
	_____	Elective	3	
<i>Spring</i>	ARTS ____	Art History Elective	3	
	ARTS ____	Paint/Sculpt/Ceramics	3	
	VCAD 451	Senior Thesis	3	
	_____	Social Sciences Elective	3	

**Total Credit: 123**

Restricted electives must be selected from the following: VCAD 300, 302, 310, 312, 315, 415, or 416.  
*All classes within the major (ARTS/VCAD) must be completed with a grade of 'C' or better.*

**BFA IN VISUAL ARTS**  
**Web Design Concentration**

Number	Course Title	Credit	Grade	Transfer
<b>FRESHMAN</b>				
<i>Fall</i>	ARTS 101	Drawing I	3	
	ARTS 103	2D Design	3	
	ARTS 199	Art Appreciation	3	-----
	ENGL 110	Composition I	3	-----
	MATH 112	Basic Math I	3	-----
<i>Spring</i>	ARTS 102	Drawing II	3	
	ARTS 104	Color Theory	3	
	ARTS 108	Computers for Artists	3	
	ENGL 111	Composition II	3	-----
	MATH 113	Basic Math II	3	-----
	HPER 170	Wellness/Health	2	
<b>SOPHOMORE</b>				
<i>Fall</i>	ARTS 202	LifeDrawing I	3	
	ARTS 208	Perspective Drawing	3	
	ARTS 209	Cognitive Development For the Artist	3	-----
	VCAD 201	Typography I	3	
	VCAD 203	Graphic Design I	3	
<i>Spring</i>	ARTS 212	Life Drawing II	3	-----
	VCAD 200	Graphic Design History	3	
	VCAD 202	Typography II	3	
	VCAD 205	Graphic Design II	3	
	ENGL ---	Literature Elective	3	-----
<b>JUNIOR3</b>				
<i>Fall</i>	ARTS 301	World Art Survey I	3	
	VCAD 206	Basic Photography	3	
	VCAD 304	HTML	3	
	-----	Science & Lab	4	-----
	HIST 114	World History I	3	-----
<i>Spring</i>	ARTS 302	World Art Survey II	3	
	VCAD 305	Web Design I	3	
	VCAD 314	Web Animation	3	-----
	HIST 115	World History II	3	-----
	-----	Elective	3	
<i>Fall</i>	VCAD 401	Web Design II	3	
	VCAD 450	Internship	3	
	VCAD 430	Portfolio	3	
	-----	Social Sciences Elective3	3	-----
	-----	Elective	3	-----
<i>Spring</i>	ARTS ---	Art History Elective	3	-----
	VCAD 411	Web Design III	3	-----
	VCAD 451	Senior Thesis Project	3	-----
	-----	Elective	3	-----
	-----	Elective	3	-----
<b>Total Credit:</b>			<b>123</b>	

*\*Restricted electives must be selected from the following: VCAD 300, 302, 310, 312, 315, 415, or 416.*  
*All classes within the major (ARTS/VCAD) must be completed with a grade of 'C' or better.*

**BFA IN VISUAL ARTS**  
**Graphic Design Concentration**

Semester		Course Title	Credits	Grade	Transfer
<b>FRESHMAN</b>					
<i>Fall</i>	ARTS 101	Drawing I	3		
	ARTS 103	2D Design	3		
	ARTS 199	Art Appreciation	3	-----	-----
	ENGL 110	Composition I	3		
	MATH 112	Basic Math I		-----	-----
<i>Spring</i>	ARTS 102	Drawing II	3		
	ARTS 104	Color Theory	3		
	ARTS 108	Computers for Artists	3		
	ENGL 111	Composition II	3	-----	-----
	MATH 113	Basic Math II	3	-----	-----
	HPER 170	Wellness/Health	2		
<b>SOPHOMORE</b>					
<i>Fall</i>	ARTS 202	LifeDrawing I	3		
	ARTS 208	Perspective Drawing	3		
	ARTS 209	Cognitive Development For the Artist	3	-----	-----
	VCAD 201	Typography I	3		
<i>Spring</i>	VCAD 203	Graphic Design I	3		
	ARTS 212	Life Drawing II	3	-----	-----
	VCAD 200	Graphic Design History	3		
	VCAD 202	Typography II	3		
	VCAD 205	Graphic Design II	3		
	ENGL ___	Literature Elective	3	-----	-----
<b>JUNIOR</b>					
<i>Fall</i>	ARTS 301	World Art Survey I	3		
	VCAD 206	Basic Photography	3		
	VCAD ___	Restricted Elective*	3	-----	-----
	HIST 114	World History I	3	-----	-----
	-----	Science & Lab	4	-----	-----
<i>Spring</i>	ARTS 302	World Art Survey II	3		
	VCAD ___	Restricted Elective*	3	-----	-----
	HIST 115	World History II	3	-----	-----
	-----	Social Science Elective	3	-----	-----
	-----	Elective	3	-----	-----
<b>SENIOR</b>					
<i>Fall</i>	VCAD ___	Restricted Elective*	3	-----	-----
	VCAD 430	Portfolio	3		
	VCAD 450	Internship	3		
	-----	Elective	3	-----	-----
	-----	Elective	3	-----	-----
<i>Spring</i>	ARTS ___	Art History Elective	3	-----	-----
	VCAD ___	Restricted Elective*	3	-----	-----
	VCAD 451	Senior Thesis Project	3	-----	-----
	-----	Elective	3	-----	-----
	-----	Elective	3	-----	-----
<b>Total Credit</b>			<b>123</b>		

**BFA IN VISUAL ARTS**  
**Studio Arts Concentration**

Number	Course Title	Credit	Grade	Transfer
<b>FRESHMAN</b>				
<i>Fall</i>	ARTS 101	Drawing I	3	
	ARTS 103	2D Design	3	
	ARTS 199	Art Appreciation	3	
	ENGL 110	Composition I	3	
	MATH 112	Basic Math I	3	
<i>Spring</i>	ARTS 102	Drawing II	3	
	ARTS 104	Color Theory	3	
	ARTS 108	Computers for Artists	3	
	ENGL 111	Composition II	3	
	MATH 113	Basic Math II	3	
	HPER 170	Wellness/Health	2	
<b>SOPHOMORE</b>				
<i>Fall</i>	ARTS 202	Life Drawing I	3	
	ARTS 208	Perspective Drawing	3	
	ARTS 209	Cognitive Development For the Artist	3	
	ARTS 217	3D Methods & Materials Science & Lab	3	
<i>Spring</i>	ARTS 212	Life Drawing II	3	
	ARTS 207	3D Design	3	
	ARTS 216	2D Methods & Materials	3	
	ENGL ____	Literature Elective	3	
	____	Elective	3	
<b>JUNIOR</b>				
<i>Fall</i>	ARTS 301	World Art Survey I	3	
	ARTS ____	Paint/Sculpt/Ceramics	3	
	ARTS ____	Restricted Elective*	3	
	HIST 114	World History I	3	
	____	Elective	3	
<i>Spring</i>	ARTS 302	World Art Survey II	3	
	ARTS ____	Paint/Sculpt/Ceramics	3	
	ARTS ____	Restricted Elective*	3	
	HIST 115	World History II	3	
	____	Elective	3	
<b>SENIOR</b>				
<i>Fall</i>	ARTS ____	Art History Elective	3	
	ARTS ____	Paint/Sculpt/Ceramics	3	
	ARTS ____	Restricted Elective*	3	
	VCAD 430	Portfolio	3	
	____	Elective	3	
<i>Spring</i>	ARTS ____	Art History Elective	3	
	ARTS ____	Paint/Sculpt/Ceramics	3	

VCAD 451	Senior Thesis	3	_____	_____
_____	Social Sciences Elective	3	_____	
<b>Total Credit:</b>		<b>123</b>		

**\*Restricted electives must be selected from the following: VCAD 300, 302, 310, 312, 315, 415, or 416. All classes within the major (ARTS/VCAD) must be completed with a grade of 'C' or better.**

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**BFA IN VISUAL ARTS  
Web Design Concentration**

Number	Course Title	Credit	Grade	Transfer
<b>FRESHMAN</b>				
<i>Fall</i>	ARTS 101	Drawing I	3	
	ARTS 103	2D Design	3	
	ARTS 199	Art Appreciation	3	-----
	ENGL 110	Composition I	3	
	MATH 112	Basic Math I	3	-----
<i>Spring</i>	ARTS 102	Drawing II	3	
	ARTS 104	Color Theory	3	
	ARTS 108	Computers for Artists	3	
	ENGL 111	Composition II	3	-----
	MATH 113	Basic Math II	3	-----
	HPER 170	Wellness/Health	2	
<b>SOPHOMORE</b>				
<i>Fall</i>	ARTS 202	LifeDrawing I	3	
	ARTS 208	Perspective Drawing	3	
	ARTS 209	Cognitive Development For the Artist	3	-----
	VCAD 201	Typography I	3	
	VCAD 203	Graphic Design I	3	
<i>Spring</i>	ARTS 212	Life Drawing II	3	-----
	VCAD 200	Graphic Design History	3	
	VCAD 202	Typography II	3	
	VCAD 205	Graphic Design II	3	
	ENGL ---	Literature Elective	3	-----
<b>JUNIOR3</b>				
<i>Fall</i>	ARTS 301	World Art Survey I	3	
	VCAD 206	Basic Photography	3	
	VCAD 304	HTML	3	
	-----	Science & Lab	4	-----
	HIST 114	World History I	3	-----
<i>Spring</i>	ARTS 302	World Art Survey II	3	
	VCAD 305	Web Design I	3	
	VCAD 314	Web Animation	3	-----
	HIST 115	World History II	3	-----
	-----	Elective	3	
<i>Fall</i>	VCAD 401	Web Design II	3	
	VCAD 450	Internship	3	
	VCAD 430	Portfolio	3	
	-----	Social Sciences Elective3	3	-----
	-----	Elective	3	-----
<i>Spring</i>	ARTS ---	Art History Elective	3	-----
	VCAD 411	Web Design III	3	-----
	VCAD 451	Senior Thesis Project	3	-----
	-----	Elective	3	-----
	-----	Elective	3	-----
<b>Total Credit:</b>			<b>123</b>	

**\*Restricted electives must be selected from the following: VCAD 300, 302, 310, 312, 315, 415, or 416. All classes within the major (ARTS/VCAD) must be completed with a grade of 'C' or better.**

## DEPARTMENT OF HISTORY AND PHILOSOPHY

<b>Chairperson:</b>	Renée Hill (Interim) Colson Hall, Room #101 (804)524-5129
<b>Professors:</b>	Majid Amini, Stephen Rockenbach
<b>Associate Professors:</b>	Richard Chew, Renée Hill

### Description of the Department

The academic programs offered by the History and Philosophy Department, prepare students for professional positions in History, Philosophy, and History Education. Students who want to study the Black Experience from an academic perspective may take relevant courses offered each semester. The department, in conjunction with the Center for Undergraduate Professional Education Programs offers teaching endorsement in History and Social Sciences (6-12).

The Department's faculty, are active in research, writing and other academic activities that enhance professional growth and development. Both faculty and students participate in organizations and activities for the improvement of the academic performance of the Department's majors. There is an active VSU chapter of Phi Alpha Theta, the National History Honor Society, a History Club and a Philosophy Club.

### Mission of the Department

The History Department was established in 1914, and became one of the first University programs to offer the M.A. Degree. The mission of the Department of History and Philosophy is to engender knowledge of the struggles and achievements of previous generations, foster an appreciation of global interdependence and cultural diversity, and produce students with strong communication and research skills. Majors from the Department are prepared for graduate and professional programs in areas such as History, International Relations or Law, and they possess an essential foundation for a variety of careers in the public sectors, museum and library and archival work, research agencies and think tanks and in teaching History at the secondary school level.

### Objectives of the Department

The general objectives of the department are to:

- Prepare majors for graduate, professional and advanced studies
- Provide non-History majors with sufficient preparation for advanced or professional studies in History and Philosophy via a Minor in History or a Minor in Philosophy
- Offer courses in History and Philosophy as part of the University's General Education Program
- Provide a variety of advanced History, Philosophy and Geography courses to meet the needs of non-History majors so as to broaden their educational backgrounds.
- Prepare effective teachers to teach History and Social Sciences at the Secondary level in schools.
- Provide the University and the outside community with professional services and expertise to enhance awareness of the past, the present and plan for the future.

## **Programs Offered**

There are a number of undergraduate programs in the History and Philosophy Department.

### **MAJORS:**

- The regular History curriculum leads to the degree of Bachelor of Arts in History and prepares students for graduate work and for careers as teachers, historians, archivists, and professionals in related areas.
- The History and Social Sciences Endorsement curriculum leads to the degree of Bachelor of Arts in History and Social Sciences with a Minor in Secondary Education. The program prepares students to teach in the secondary schools and for careers in related fields.

### **MINORS:**

Apart from the two degree programs mentioned above, the Department also offers Minors in History and Philosophy.

- The Minor in History provides a structured sequence of courses that gives the student a broad exposure to the discipline of history. Students acquire a general exposure to United States and World history, historical methodology, and courses in areas of special interest to them. Analytical thinking and writing skills are acquired, preparing students for advanced professional studies in history even though their undergraduate major may be in another discipline.
- The Minor in Philosophy enables students to broaden their academic and professional options. As a structured sequence of philosophy courses, the Minor provides an opportunity for students to develop critical thinking, analytical abilities, and effective communication. People trained in philosophy are very much in demand for professions such as law, journalism, publishing, banking, civil service and many others.

In addition to these formal programs, the Department offers courses to prepare students for other career options.

### **OTHER DEPARTMENTAL INFORMATION**

Undergraduates in the Department are active in the Philosophy and History Clubs. Members participate in campus-wide programs, travel to meetings and sites related to their career goals and engage in cultural and social events. Students who meet the academic requirements become members of Phi Alpha Theta, the National History Honor Society, which has a local Chapter at Virginia State University, the Alpha-Alpha-Eta.

The academic progress and needs of majors are assessed by written and oral tests as well as internships or clinical activities at various stages of their programs.

## HISTORY AND PHILOSOPHY Course Descriptions

### GEOGRAPHY

#### **GEOG 210 WORLD GEOGRAPHY - 3 semester hours**

An introduction to the geographic principles underlying different types of climate and their influence on society in various physical and political regions.

**GEOG 313 VIRGINIA GEOGRAPHY - 3 semester hours** A survey of the geographic regions of Virginia, and the influence of geographic factors on social and economic problems in Virginia, past and present.

#### **GEOG 314 GEOGRAPHY OF NORTH AMERICA - 3 semester hours**

A study of the physical and cultural environments of North America with emphasis on regional economic activities.

#### **GEOG 316 HUMAN GEOGRAPHY - 3 semester hours**

A survey of the content of human geography. Topics include population, migration, urban geography, the distribution of agriculture and industry, and human environmental impact.

#### **GEOG 410 GEOGRAPHY OF DEVELOPING NATIONS - 3 semester hours**

A study of the relationships between population and economic development in developing countries, and of possible responses to current problems and their consequences.

**GEOG 411 URBAN GEOGRAPHY - 3 semester hours** An examination of the economic basis, regional spacing and internal social and economic organization of cities.

#### **GEOG 412 SEMINAR ON LAND USE AND DEVELOPMENT - 3 semester hours**

An interpretation of the landscape features of the United States with an emphasis on the historical and present patterns of social and economic activities.

#### **GEOG 413 ECONOMIC GEOGRAPHY - 3 semester hours**

A study of the relation between natural resources and the development and interdependence of national industrial and trade centers.

## HISTORY

### **HIST 114 WORLD HISTORY TO 1500 - 3 semester hours**

A topical introduction to the development of civilization up to the eve of the Modern Period, covering the growth of independent cultural traditions and diffusion of ideas, institutions and people.

### **HIST 115 WORLD HISTORY SINCE 1500 - 3 semester hours**

A topical introduction to the evolution of civilizations through the scientific, industrial, political and economic revolutions of the Modern Period down to the present. Emphasis will be placed on the evolution of global interdependence through the interaction of western and non-western cultures.

### **HIST 122 UNITED STATES HISTORY TO 1865 - 3 semester hours**

An introduction to the social, political and economic history of the United States from Pre-Columbian America to the end of the Civil War.

### **HIST 123 UNITED STATES HISTORY AFTER 1865 - 3 semester hours**

An introduction to the social, political and economic history of the United States from Reconstruction to Contemporary America.

### **HIST 244 READINGS IN HISTORY – 3 semester hours**

An introduction to the discipline of history which allows flexibility to both student and professor to explore a historical topic or theme in depth, different from a survey format. Mainly intended for history or related majors, the course will emphasize a critical thinking approach to analysis of historical events, thus preparing students for higher courses in historical methodology and the history senior seminar. This course must be successfully completed before enrolling in HIST 344.

### **HIST 250 AMERICAN SPORTS HISTORY - 3 semester hours**

A social history of America, using sports and leisure as indicators of how these activities reflect American attitudes from the colonial period to the present day.

### **HIST 299 SPECIAL TOPICS IN HISTORY - 3 semester hours**

A temporary and/or topic specific course with content appropriate for a sophomore level audience.

### **HIST 301 HISTORY OF ASIA - 3 semester hours**

A survey of the cultures, empires and people of Asia.

### **HIST 304 AMERICAN MILITARY HISTORY - 3 semester hours**

A study of American Military History, and the origin and the growth of the United States Army and its accomplishments in war and peace from 1775 to the present.

### **HIST 312 HISTORY OF RUSSIA AND THE SOVIET UNION - 3 semester hours**

A historical overview of the development of the Russian state, with emphasis on the time period of Communist control under the Soviet Union and the re-emergence of non-communist Russia.

### **HIST 317 HISTORY OF ENGLAND - 3 semester hours**

A survey of the social, economic, and political development of England from 1485 to the twentieth century.

### **HIST 325 SURVEY OF LATIN AMERICA - 3 semester hours**

An overview of the history, culture, and politics of Latin American from the pre-Columbian era to the present day

### **HIST 327 HISTORY OF THE CARIBBEAN - 3 semester hours**

A history of the political, economic, and social characteristics of the Caribbean region.

**HIST 340 AFRICAN AMERICAN HISTORY TO 1865 - 3 semester hours**

A reading and writing intensive course which provides students with an analysis of important issues in African American origins to 1865.

**HIST 341 AFRICAN AMERICAN HISTORY FROM 1865 TO PRESENT - 3 semester hour**

A reading and writing intensive course which provides students with an analysis of important issues in African American history from 1865 to the present.

**HIST 344 HISTORICAL METHODS -- 3 semester hours**

An introduction to the methods involved in historical analysis, research and writing. Emphasis will be placed on approaches to the study of history, modes of historical writing, interpretation and argument, data collection, analysis and documentation, and style and writing conventions. Students successfully completing this course will be able to write effectively, reason logically, and argue convincingly.

**This course must be successfully completed before enrolling in HIST 444: Senior Seminar.**

**HIST 352 BLACK VOICES IN AMERICAN HISTORY - 3 semester hours**

A reading and discussion intensive course that explores the ways in which African Americans have experienced and responded to life in the social, political, and economic spheres of American society.

**HIST 399 SPECIAL TOPICS IN HISTORY - 3 semester hours**

A temporary and/or topic-specific course with content appropriate for an upperclassman audience.

**HIST 401 COLONIAL AMERICA TO 1763 - 3 semester hours**

A study of the establishment and development of British colonies in North America emphasizing their political, social and economic patterns.

**HIST 402 STUDENT TEACHING IN HISTORY - 3 semester hours**

A course designed to provide supervision in the content area for pre-service secondary history candidates.

**HIST 405 REVOLUTIONARY AND EARLY NATIONAL PERIOD, 1763-1815 - 3 semester hours**

An examination of the founding of the United States from the Revolution through the War of 1812.

**HIST 406 NATIVE AMERICANS IN EARLY AMERICA - 3 semester hours**

A study of Native Americans in North America from the earliest settlements on the continent until the early nineteenth century.

**HIST 409 ANTE BELLUM AMERICA - 3 semester hours**

An overview of the United States from 1815 to the outbreak of the Civil War, with an emphasis on major political, economic and social trends.

**HIST 413 CIVIL WAR AND RECONSTRUCTION - 3 semester hours**

A study of the Civil War and its causes as well as the economic, political, and social changes in the South during Reconstruction.

**HIST 415 THE NEW SOUTH - 3 semester hours**

A study of the effects of the Civil War and Emancipation on southern reconstruction, industrialization, and agriculture.

**HIST 417 PROGRESSIVISM TO DEPRESSION, 1900-1933 - 3 semester hours**

An intensive study of the United States in the first three decades of the twentieth century, including a consideration of Progressive Reform, World War I, the Twenties, the Crash, and the Depression.

**HIST 421 NEW DEAL TO NOW, 1933 TO THE PRESENT - 3 semester hours**

A concentrated study of the recent history of the United States, including a consideration of the Depression and the New Deal, the Second World War, the Cold War, Civil Rights struggle, and other domestic developments.

**HIST 425 CONTEMPORARY AMERICAN HISTORY - 3 semester hours**

An intensive study of contemporary topics and analysis of their background and impact.

**HIST 426 METHODS AND MATERIALS FOR TEACHING HISTORY AND SOCIAL STUDIES IN THE SECONDARY SCHOOL - 3 semester hours**

An examination of the implications of contemporary teaching strategies, educational materials, and instructional designs for cross-disciplinary instruction in history and social studies.

**HIST 428 AMERICA IN TWO WORLD WARS - 3 semester hours**

A study of America's participation in World War I and World War II, the conflicts that marked American's transition to a global superpower.

**HIST 431 HISTORY OF VIRGINIA - 3 semester hours**

A general course on the development of Virginia and its role in the history of the nation.

**HIST 435 AMERICAN DIPLOMATIC HISTORY - 3 semester hours**

A comprehensive study of American foreign relations from the colonial era to the present day.

**HIST 437 ECONOMIC AND BUSINESS HISTORY OF THE UNITED STATES  
3 semester hours**

A study of the ideas, forces, and people behind the emergence of a capitalist economy in the United States, from the Revolution to the present.

**HIST 439 AMERICAN CONSTITUTIONAL HISTORY - 3 semester hours**

A historical study of the creation of the U.S. constitution, its impact upon American development and society, and the evolution of the document through contemporary history.

**HIST 441 AMERICAN INTELLECTUAL AND CULTURAL HISTORY - 3 semester hours**

An overview of the major social trends of the various peoples of America, including intellectual, religious, cultural and literary movements.

**HIST 443 HISTORY INTERNSHIP - 3 semester hours**

An opportunity to experience the practice of history through placement in internships with public or private agencies.

**HIST 444 SENIOR SEMINAR - 3 semester hours**

The capstone course for History majors, the Senior Seminar requires students to demonstrate their historical knowledge and skills through the research, writing, presentation and defense of a seminar paper on a topic approved by the seminar director.

**Prerequisite/Co-requisite: HIST 344.**

**HIST 445 WOMEN'S HISTORY - 3 semester hours**

A study of the significance of women in American history, focusing on the changing historical roles of women in society and the emergence of the women's movement.

**HIST 449 HISTORY OF THE AMERICAN WEST - 3 semester hours**

An examination of the primary events, social movements and historical impact of American migration into the West from the nineteenth century to the present day.

**HIST 451 BLACK HISTORY - 3 semester hours**

A study tracing the path of African Americans throughout American history from the African background to present times.

**HIST 453 HISTORY OF BLACK EDUCATION IN THE UNITED STATES**

**3 semester hours**

An investigation into the ideologies, methods, and struggles involved in the education of blacks in the United States across time and regions.

**HIST 455 BLACK PROTEST IN THE TWENTIETH CENTURY - 3 semester hours**

An extensive examination of the efforts of African Americans to secure freedom and dignity in twentieth-century America with emphasis on the philosophies and leaders of the major protest organizations.

**HIST 459 A HISTORY OF BLACK RELIGIOUS EXPERIENCES IN AMERICA**

**3 semester hours**

An examination of the origins and contributions of the black sectarian and established religious experiences in America from the Colonial period to the present.

**HIST 461 HISTORY OF AFRICA TO 1800 - 3 semester hours**

A survey of the history of Africa from the earliest times to the end of the 18th century. The course will explode the old myths of Africa as a 'dark continent', and emphasize the internal dynamics of the development of indigenous cultures and civilizations. Africa's contribution to world history, and the significance of external forces as they impacted Africa, especially the slave trade, will be underscored.

**HIST 462 HISTORY OF AFRICA SINCE 1800 - 3 semester hours**

A survey of the history of Africa since the late 18th century as a background for understanding today's events. The course will examine socio-economic and political developments inside Africa, relations with outside forces, and the increasing European interest in Africa, which paved way for the imposition of European colonialism. The colonial impact and African reactions, decolonization, the post-colonial period and the current problems and prospects of Africa will be studied.

**HIST 487 BRITISH EMPIRE/COMMONWEALTH - 3 semester hours**

A survey of the development of the British Empire from the American Revolution to the Commonwealth of Nations and its place in the Age of Anti-Colonialism.

**HIST 489 AMERICAN LEGAL HISTORY - 3 semester hours**

A history of the American legal system from the colonial era to the present, emphasizing the changing nature of the law to reflect American society.

**HIST 491 THE FRENCH REVOLUTION - 3 semester hours**

An analytical examination of the people and processes of the French Revolutionary period. A special focus of this course will be the study of revolutionary theories developed by social scientists during the last several decades.

**HIST 492 AMERICAN IMMIGRATION HISTORY - semester hours**

A history of immigration to the Western Hemisphere, including a discussion of where the immigrants came from, why they came, and how they influenced America after their arrival.

**HIST 495 INDEPENDENT STUDY IN HISTORY - 3 semester hours**

An open format history course featuring directed supervision of the student in their chosen topic by a designated faculty member.

## PHILOSOPHY

### **PHIL 140 PHILOSOPHY - 3 semester hours**

An introduction to methods of critical thinking, and to the major problem areas of philosophy such as epistemology, metaphysics and ethics.

### **PHIL 180 CRITICAL THINKING - 3 semester hours**

An introductory course exploring the nature and structure of arguments and enhancing reasoning abilities. Students will learn to develop and analyze arguments, identify informal fallacies, differentiate among assumptions, opinions, and facts, and hone critical reading and writing skills.

### **PHIL 213 HISTORY OF PHILOSOPHY - 3 semester hours**

A survey of the history of Western philosophy from the Renaissance through the nineteenth century, including Hobbes, Descartes, Leibnitz, Spinoza, Locke, Berkeley, Hume, Kant, and Hegel.

### **PHIL 220 INTRODUCTION TO LOGIC - 3 semester hours**

An introduction to the methods of elementary formal logic, including traditional syllogistic, Venn diagrams, sentential logic, truth tables, methods of deduction, and inductive reasoning.

### **PHIL 275 ETHICS - 3 semester hours**

An introductory study of the nature, analysis, and justification of moral judgments.

### **PHIL 290 BUSINESS ETHICS - 3 semester hours**

A course designed to introduce students to ethical theories and moral reasoning which they will then apply to business case studies. Students will consider contemporary moral dilemmas confronting businesses and corporations. They will develop the critical skills needed to analyze complex moral situations and formulate, weigh, discuss and defend appropriate moral solutions.

### **PHIL 314 PHILOSOPHY OF RELIGION - 3 semester hours**

A survey of Eastern and Western religious thought, including the idea of God, knowledge of God, the problem of evil, immortality, and reincarnation.

### **PHIL 315 AFRICAN PHILOSOPHY - 3 semester hours**

An exploration of metaphysical, epistemological and ethical theories arising from peoples of the African continent. Students will analyze, discuss and compare the differing principles and world views of the diverse African societies.

### **PHIL 323 READINGS IN PHILOSOPHY - 3 semester hours**

A close reading of original philosophical works on an in-depth treatment of a philosophical problem, such as readings in the philosophy of law, Black philosophy, existentialism, the philosophy of language, and symbolic logic.

### **PHIL 340 PHILOSOPHY OF MIND - 3 semester hours**

The question 'what is it to have a mind?' forms the focus of the course, and the objective is to arrive at an answer by examining the multifarious manifestations of mind. The course is organized around an interdisciplinary approach by incorporating theories from psychology, artificial intelligence and cognitive science.

### **PHIL 350 PHILOSOPHY OF LAW - 3 semester hours**

An examination of the sources, content and extent of political and moral rights and obligations. Other concepts explored will be autonomy, privacy, freedom of religion, equal opportunity, paternalism, and how these concepts impact issues such as conscientious objection, flag burning, pornography, affirmative action, abortion, and euthanasia.

**PHIL 400 CONTEMPORARY PHILOSOPHY - 3 semester hours**

A study of twentieth century Western philosophy, including the work of such contemporary philosophers as Russell, Wittgenstein, Pierce, James, Dewey, Heidegger, and Sartre.

**PHIL 422 PHILOSOPHY OF SCIENCE - 3 semester hours**

An examination of the fundamental conceptual basis of the sciences, with consideration given to scientific methods of certification, theory construction and explanation, the metaphysical assumptions and implications of scientific theories, and the relations between the scientific and non-scientific views of the world.

**PHIL 424 SEMINAR IN PHILOSOPHY - 3 semester hours**

An opportunity for students to pursue original research in an area of the instructor's special interest and study.

**PHIL 450 APPLIED ETHICS - 3 semester hours**

An in-depth exploration of moral theory and discussion of its application to broad areas such as business, the environment, or bio-medical issues.

**PHIL 460 EPISTEMOLOGY AND METAPHYSICS - 3 semester hours**

An examination of the nature of knowledge and reality. The course covers epistemological issues such as skepticism, analysis of knowledge, relevance of gender and race to understanding and the ethics of belief. It also deals with metaphysical questions about what there is in reality and how the world works by discussion issues like appearance and reality, substance and identify, causation and laws, and space and time.

**DEPARTMENT OF HISTORY AND PHILOSOPHY**  
**History Major Bachelor of Arts Degree**

		<b>Semester Hours</b>		
		<b>1st Sem</b>	<b>2nd Sem</b>	<b>Total Hours</b>
<b>FRESHMAN YEAR</b>				
HIST 114	World History to 1500	3	-	3
ENGL 110	Composition I	3	-	3
MATH	MATH 112	3	-	3
SOCIAL SCIENCE	GE Menu	3	-	3
HEALTH & WELLNESS	GE Menu	-	2	2
HIST 115	World History Since 1500	-	3	3
ENGL 111	Composition II	-	3	3
MATH	MATH 113	-	3	3
UNRESTRICTED	Elective	-	3	3
SCIENCE/LAB	GE Menu	-	4	4
<b>Totals</b>		<b>14</b>	<b>16</b>	<b>30</b>
<b>SOPHOMORE YEAR</b>				
HIST 122	U.S. History to 1865	3	-	3
PHIL 140	Philosophy	3	-	3
GLOBAL STUDIES	GE Menu	3	-	3
LITERATURE	ENGL 201/202	3	-	3
HIST 244	Readings in History	3	-	3
HIST 123	US History After 1865	-	3	3
PHIL 180	Critical Thinking	-	3	3
HUMANITIES	GE Menu	-	3	3
UNRESTRICTED	Elective	-	6	6
<b>Totals</b>		<b>15</b>	<b>15</b>	<b>30</b>
<b>JUNIOR YEAR</b>				
GEOG	Elective	3	-	3
HIST 344	Historical Methods	3	-	3
HIST 405 (or 406/463)	Revolutionary & Early Nat.	3	-	3
GEEN 310	Advanced Comm. Skills	3	-	3
UNRESTRICTED	Elective	3	-	3
HIST 413 (or 409)	Civil War & Reconstruction	-	3	3
HIST	Elective	-	6	6
UNRESTRICTED	Elective.	-	6	6
<b>Totals</b>		<b>15</b>	<b>15</b>	<b>30</b>
<b>SENIOR YEAR</b>				
HIST 421 (or 425)	New Deal to Now	3	-	3
HIST 444	Senior Seminar	3	-	3
HIST	Elective	3	-	3
UNRESTRICTED	Elective	6	-	3
HIST	Elective	-	3	3
UNRESTRICTED	Elective	-	12	12
<b>Totals</b>		<b>15</b>	<b>15</b>	<b>30</b>

**NOTE: Courses with HIST, ENGL, and PHIL prefixes require a pass of C or better.**

**DEPARTMENT OF HISTORY AND PHILOSOPHY**  
**History and Social Sciences with a Minor in Secondary Education 6-12**  
**Bachelor of Arts Degree (120 hours)**

		Semester Hours		
		1st	2nd	Total Sem Hours
<b>FRESHMAN YEAR</b>				
HIST 114	World History to 1500	3	-	3
ENGL 110	Composition I	3	-	3
MATH 112	Basic Mathematics	3	-	3
ECON 100	Basic Economics	3	-	3
IDST 100	Analytical Reading, Writing and Reasoning I	(2)	-	(2)
HIST 115	World History since 1500	-	3	3
MATH 113	Basic Mathematics	-	3	3
AGRI 150	Environmental Science and Lab	4	-	4
PHIL 140	Philosophy	-	3	3
ENGL 111	Composition II	-	3	3
GEES 181	Earth Science and Lab	-	4	4
IDST 101	Analytical Reading, Writing and Reasoning II	-	(2)	(2)
<b>Totals</b>		<b>14</b>	<b>16</b>	<b>30</b>
<b>SOPHOMORE YEAR</b>				
HIST 122	U.S. History to 1865	3	-	3
EDUC 201	Introduction to Teaching I	2	-	2
POLI 150	US Government	3	-	3
PHIL 180	Critical Thinking	3	-	3
HEALTH/WELLNESS	GE Menu	3	-	3
HIST 244	Readings in History	-	3	3
HIST 123	US History After 1865	-	3	3
AGRI 280	Geographic Info. systems	-	3	3
EDUC 202	Introduction to Teaching II	-	2	2
IDST 200	Digital Media in Education	-	3	3
ENGL 215	World Literature I	-	3	3
<b>Totals</b>		<b>15</b>	<b>15</b>	<b>30</b>
<b>JUNIOR YEAR</b>				
GEOG	Elective	3	-	3
HIST 344	Historical Methods	3	-	3
HIST 405 (or 406/463)	Revolutionary & Early Nat.	3	-	3
GEEN 310	Advanced Comm. Skills	3	-	3
UNRESTRICTED	Elective	3	-	3
HIST 413 (or 409)	Civil War & Reconstruction	-	3	3
HIST	Elective	-	6	6
UNRESTRICTED	Elective.	-	6	6
<b>Totals</b>		<b>15</b>	<b>15</b>	<b>30</b>
<b>SENIOR YEAR</b>				
HIST 421 (or 425)	New Deal to Now	3	-	3
HIST 444	Senior Seminar	3	-	3
HIST 426	Methods for Teaching History/Social Studies	3	-	3
EDUC 424	Critical Issues in Education	2	-	2
UNRESTRICTED	Elective	3	-	3
EDUC 401	Student Teaching Seminar	-	3	3
HIST 402	Student Teaching in History	-	3	3
EDUC 402	Student Teaching	-	9	9
<b>Totals</b>		<b>15</b>	<b>15</b>	<b>30</b>

**NOTE: Courses with HIST, ENGL, and PHIL prefixes require a pass of C or better.**

## DEPARTMENT OF HISTORY AND PHILOSOPHY

### MINOR IN HISTORY

The Minor in History comprises 18 semester hours of History courses with nine semester hours of core courses and nine semester hours of elective History courses. A grade of “C” or better must be obtained in order for a course to be counted toward the Minor.

#### **CORE COURSES (9 semester hours):**

GEHI 114 World History to 1500                      **OR**      GEHI 115 World History Since 1500  
GEHI 122 U. S. History to 1865                      **OR**      GEHI 123 U.S. History After 1865  
HIST 344 Historical Methods

#### **ELECTIVE COURSES (9 semester hours):**

Any three history courses offered at the 200 level and above.

### MINOR IN PHILOSOPHY

The Minor in Philosophy comprises 18 semester hours of Philosophy courses with nine semester hours of core courses and nine semester hours of elective Philosophy courses. A grade of “C” or better must be obtained in order for a course to be counted toward the Minor.

#### **CORE COURSES (9 semester hours):**

PHIL 140 Introduction to Philosophy  
PHIL 220 Logic  
One Ethics course (PHIL 275 Ethics, PHIL 290 Business Ethics, or PHIL 450 Applied Ethics)

#### **ELECTIVE COURSES (9 semester hours):**

Any three courses offered from among:

PHIL 180 Critical Thinking  
PHIL 213 History of Philosophy  
PHIL 314 Philosophy of Religion  
PHIL 315 African Philosophy  
PHIL 323 Readings in Philosophy  
PHIL 340 Philosophy of Mind  
PHIL 350 Philosophy of Law  
PHIL 400 Contemporary Philosophy  
PHIL 422 Philosophy of Science  
PHIL 424 Seminar in Philosophy  
PHIL 460 Epistemology and Metaphysics

## DEPARTMENT OF LANGUAGES AND LITERATURE

- Chairperson:** Sheikh U. Kamarah,  
Colson Hall, Room 300T  
(804) 524-5489
- Professors:** Rita Dandridge, Sheikh Kamarah, Osayimwense Osa, Maxine Sample, Freddy Thomas, Michael McClure
- Associate Professors:** Diann Baecker, Jacqueline Burseson, Merry Byrd, Donna Crawford, Rodger L. Doss, Deborah Goodwyn, John R. Holmes, Mohamed S. Kabia, Gary MacDonald, Pamela Reed, Hildegard Rissel, Ronal Stepney
- Assistant Professors:** Aishia Bailey, Shaheed Coovadia, Modu Lami-Arwa Fofana-Kamara, Deidra Lee Leah Thomas
- Instructors:** Rebecca Boswell, Nicholas Brown, Latorial Faison, Granada Hamilton, Meredith Polk, Apryl Prentiss, Oluwatosin Ogunnika, Mario Mantilla, Christopher Moore, Meredith Polk, Ann Rudy, Arnold Westbrook

### Description of the Department

The Department offers a wide range of courses in the fields of English, English Education, Foreign Languages, Drama, and Speech. The Department offers an undergraduate program leading to the Bachelor of Arts degree in English. For the English major, there is also a minor in Secondary Education that may lead to a teaching endorsement. In addition, the Department offers minors in Africana Studies, Drama, English, Film Studies, French, German, Spanish, and Writing.

### Mission of the Department:

The Department of Languages and Literature's programs support the University's mission by extending Department resources to all who strive for academic excellence. The Department is dedicated to the promotion of knowledgeable, perceptive, and humane citizens secure in their self-awareness, equipped for personal fulfillment, sensitive to the needs of others, and committed to assuming productive roles in a challenging global society.

Department programs and courses provide particular support for Mission principles concerned with advanced scholarship in the discipline of English, the African American heritage, globally oriented studies, and for students who are diversely prepared in communication skills.

The purpose of the Department of Languages and Literature is to assist students in (1) developing competence in language skills, especially in writing and speaking; (2) developing knowledge of language, the literature of various periods and peoples, and the processes of critical thinking and writing; (3) preparing for the teaching profession, further study and research, and other careers involving analytical, critical, and communicative proficiencies; (4) and developing a broad intellectual background necessary for personal enrichment and engaged citizenship.

### Objectives of the Department

- To develop students' expertise in language skills, especially writing and speaking effectively.
- To develop students' knowledge about language, literature of various periods and peoples, and processes of critical thinking and writing.
- To prepare students for teaching, further study and research, and other careers involving analytical, critical, and communicative proficiencies.
- To provide students the broad intellectual background necessary for personal enrichment and engaged citizenship.

### **Special Facilities and Equipment**

The Department of Languages and Literature offers several specific facilities: an electronic classroom, a foreign language laboratory, and an adaptable black box theater space.

### **Student Organizations**

The Department of Languages and Literature houses several student organizations: Alpha Mu Gamma Foreign Language Honor Society, Sigma Tau Delta English Honor Society, English Club, University Players

## **AFRICANA STUDIES**

### **Course Descriptions**

#### **IDUP 270 INTRODUCTION TO AFRICANA STUDIES - 3 semester hours**

This course examines the various disciplinary and theoretical approaches to Africana Studies and its development as a field of scholarly inquiry. Through fiction and nonfiction, students will explore topics that will include Africa and its place in the world community, the Atlantic slave trade, nationalism, Pan-Africanism, Afro centrality, and the roles of race, gender, and class in shaping the experiences of people of African descent in African and the Diaspora.

**Prerequisites:** ENGL 110 Composition I, ENGL 111 Composition II

#### **IDUP 371 STUDY ABROAD IN AFRICA - 3-6 semester hours**

An individually designed and planned learning experience at an African university.

#### **IDUP 470 SPECIAL TOPICS IN AFRICANA STUDIES - 3 semester hours**

In-depth study of a selected topic in the literatures and/or languages of Africa and/or the African Diaspora. Topics will vary from semester to semester.

**Prerequisites:** ENGL110 Composition I, ENGL 111 Composition II

## **DRAMA**

#### **DRAM 113 ACTING - 3 semester hours**

Basic instruction in the fundamentals of acting, emphasizing vocal and body techniques employed in creating and presenting characterizations. Includes studies of historical and modern acting styles, techniques, theories, and dramatic relationships. Laboratory experience.

#### **DRAM 199 DRAMA APPRECIATION – 3 semester hours**

An introduction to the study and understanding of the dramatic arts. The various methods through which humans are able to access, interpret, and interact with drama will be discussed. Topics include an overview of historical development of drama and theatre and a general survey of the roles of the collaborative artists responsible for a theatre production. Emphasis is placed on the areas of textual analysis and history of dramatic performances, but other areas (design, acting, directing, playwriting, dramaturgy) are discussed. Some evaluation of outside performances is required and involvement in one of the college theatre productions may also be required.

#### **DRAM 215 STAGECRAFT I - 3 semester hours**

Lecture-laboratory approach to the study of elementary principles and problems regarding crews, scripts, and stage design concepts, design procedures, construction, and color and paint.

#### **DRAM 217 ACTIVITIES IN DRAMA - 3 semester hours**

Practice in optional phases of presenting dramatic productions.

#### **DRAM 301 DRAMATIC PRODUCTION - 1 semester hour, repeatable 5 times**

Students work on the creation, technical production, and management of performances given by the Little Theatre and the VSU Performers.

#### **DRAM 313 – ACTING II – 3 semester hours**

Advanced study of acting fundamentals, emphasizing the tools of voice and body awareness for creating and presenting characterizations. Includes study of techniques for textual analysis and character development. Course includes rehearsal and performance of both monologues and partnered scenes.

#### **DRAM 316 STAGECRAFT II - 3 semester hours**

Lecture-laboratory approach to the study of elementary principles and problems regarding properties, lighting, special sound and visual effects, make-up, and costumes.

#### **DRAM 414 DIRECTING AND PRODUCING - 3 semester hours**

Lecture-laboratory approach to the principles and techniques of directing and producing.

## ENGLISH EDUCATION

### **ENED 371 THE TEACHING OF ENGLISH IN SECONDARY SCHOOLS - 3 semester hours**

Examination of traditional and current theories and practices in the teaching of English, with opportunities for supervised lab and first-hand experiences in practice teaching.

### **ENED 402 STUDENT TEACHING IN ENGLISH -3 semester hours**

This course is designed to provide supervision on the content area for pre-service secondary English candidates.

Prerequisite: Department approval

**Co-requisites: EDUC 401 Student Teaching Seminar, EDUC 402 Student Teaching**

### **ENED 431 TEACHING COMPOSITION - 3 semester hours**

A course dealing with developing a philosophy of composition, emphasizing particularly the relationship between the process of composing and the process of exploring a subject. Also presents ways of organizing and conducting the composition class as well as techniques of evaluation.

### **ENED 432 READING AND LITERATURE - 3 semester hours**

A course based on the premise that one is likely to read well by reading often in a favorable, positive atmosphere. Emphasis on environments teachers create and materials and procedures they use which can lead to students developing the desire to read and the habit of reading extensively. Practicum in planning lessons in literature for students with various abilities and interests, with emphasis on adolescent literature.

### **ENED 433 VERBAL PROFICIENCY EXAMINATION - 0 semester hours**

A written and oral examination to assess students' verbal competencies at the beginning of their senior year.

## ENGLISH

### **ENGL 110 COMPOSITION I - 3 semester hours**

Introduces students to critical thinking and the fundamentals of academic writing. Frequent and intensive writing in varied expository modes, with emphasis on analysis and discussion of the composing process.

### **ENGL 111 COMPOSITION II - 3 semester hours**

Continues to develop students' critical thinking skills, documentation expertise, and academic writing proficiency. Greater focus on persuasive writing and the research process. Close examination and discussion of a range of texts about the human experience leading to frequent and intensive writing.

**Prerequisite: ENGL 110**

### **ENGL 201 INTRODUCTION TO LITERATURE -3 semester hours**

A course in reading, thinking critically about, and discussing literature from a variety of genres and cultures, through the study of significant texts and authors. Writing intensive.

**Prerequisite: ENGL 110 Composition I and ENGL 111 Composition II**

### **ENGL 202 INTRODUCTION TO AFRICAN AMERICAN LITERATURE**

**3 semester hours**

A course in reading, thinking critically about, and discussing literature from a variety of genres, through the study of significant texts by African American authors. Writing intensive.

**Prerequisites: ENGL 110 and ENGL 111**

### **ENGL 210 ENGLISH LITERATURE I - 3 semester hours**

Study of English literature and its background from Anglo-Saxon times through the age of Samuel Johnson.

### **ENGL 211 ENGLISH LITERATURE II - 3 semester hours**

Study of English literature and its background from the Romantic age to the twentieth century.

**ENGL 212 AMERICAN LITERATURE I - 3 semester hours**

Survey of various topics, literary form, and writer representative of achievements and trends from Colonial times to the Civil War

**ENGL 213 AMERICAN LITERATURE II -3 semester hours**

Survey of various types of creative works and critical opinions, designed to show the variety and strengths of literary achievement from the Civil War to the present.

**ENGL 214 WORLD LITERATURE I - 3 semester hours**

Survey in English of world literature from the Ancient World through the Renaissance, with attention to main ideas and genres.

**ENGL 215 WORLD LITERATURE II - 3 semester hours**

Survey in English of world literature from the seventeenth century to the present, with attention to main ideas and genres.

**ENGL 260 INTRODUCTION TO FILM STUDIES – 3 semester hours**

An introduction to film studies as an important aspect of literary discourse. Students will explore film history, language, and structure, while using a variety of critical analysis strategies to analyze films. A series of selected screenings throughout the course will help students to identify and examine connections between popular culture, language and literature studies, and film.

**Prerequisites: ENGL 110 Composition I and ENGL 111 Composition II**

**ENGL 301 ENGLISH LITERATURE OF THE MIDDLE AGES - 3 semester hours**

Study of the chief works of medieval English literature from Beowulf to the fifteenth century against a background of prevailing social, political, and religious ideas.

**ENGL 302 ENGLISH LITERATURE OF THE RENAISSANCE - 3 semester hours**

Study of the principal writers of the Renaissance and the Interregnum, from Skelton to Milton. Prevailing social, political, and religious thought of the Renaissance and early seventeenth century as background.

**ENGL 303 ENGLISH LITERATURE OF THE RESTORATION AND EIGHTEENTH CENTURY  
3 semester hours**

Study of the principle writers of the Restoration and eighteenth century. Prevailing social, cultural, and political thoughts of the Restoration /18th century as background.

**ENGL 304 ENGLISH LITERATURE OF THE NINETEENTH CENTURY - 3 semester hours**

Study of the principal poets and prose writers of the Romantic movement and the Victorian period. Prevailing social, cultural, and political thought of the late 18th century and 19th century as background.

**ENGL 306 ENGLISH LITERATURE OF THE TWENTIETH CENTURY - 3 semester hours**

Study of the principal writers of literary and critical movements in the 20th century. Prevailing social, cultural, and political thought of the 20th and early 21st century as background.

**ENGL 307 AMERICAN LITERATURE BEFORE 1800 - 3 semester hours**

Study of the major issues, movements, forms, and/or themes in American literature and culture before 1800. Topics may include narratives of exploration and encounter, Puritan and/or Enlightenment writings, captivity and slave narratives, post-colonial approaches to colonial rhetoric and poetry, and/or in-depth studies of selected writers.

**ENGL 308 AMERICAN LITERATURE OF THE NINETEENTH CENTURY - 3 semester hours**

Study of the major issues, movements, forms and/or themes in 19th century American literature and culture. Topics may include the American Renaissance, literature and abolition, African American novels and poetry, romance and romanticism, the rise of the short story, realism, naturalism, the frontier, representations of region, American capitalism, and/or in-depth studies of selected writers.

**ENGL 309 AMERICAN LITERATURE OF THE TWENTIETH CENTURY - 3 semester hours**

Study of the major issues, movements, forms, and/or themes in 20th century American literature and culture. Topics may include Modernism, Post-Modernism, the Harlem Renaissance, Depression-era literature, consumer society, the Beats, Civil Rights literature of American imperialism, and/or in-depth studies of selected writers.

**ENGL 311 AFRICAN AMERICAN LITERATURE - 3 semester hours**

Survey of the African American literary tradition from its earliest expressions to the present. Topics may include African American folklore, slave narratives, essays, poetry, drama, fiction, non-fiction, criticism, and the shaping of a Black aesthetic.

**ENGL 312 WOMEN'S LITERATURE -3 semester hours**

Study of selected literary works by or about women, within the context of women's literary traditions as they have developed in various cultures and historical periods.

**ENGL 313 CLASSICS OF WESTERN LITERATURE -3 semester hours**

Study of Greek and Latin literature in translation, with consideration of major classical works and their influence on English and American literature. Will include works by such writers as Homer, Aeschylus, Sophocles, Euripides, Plato, Aristotle, Virgil, Horace, Catullus, Juvenal, and Ovid.

**ENGL 314 READINGS IN MULTI-CULTURAL LITERATURE - 3 semester hours**

Variable content. Study of selected works from the literature of Native American, Jewish, Asian, Chicano/Latino, or other traditions. May be repeated once for credit with different topic, with consent of department.

**ENGL 315 AFRICAN LITERATURE - 3 semester hours**

Study of the literature(s) of Africa from pre-colonial to contemporary times. Includes investigation of the relationship between oral and written forms, and how "Orature" has influenced and continues to influence written African literature. Will include representative works from such writers as Achebe, Soyinka, WaThiongo, Head, Emecheta, Ba, Osundare, U'Tamsi, and Aidoo.

**ENGL 320 HARLEM RENAISSANCE - 3 semester hours**

Study of the flourishing of the literary, visual, and performing arts by African Americans during the period known as the Harlem Renaissance (1920-1940). Emphasis includes the articulation of black aesthetics and the impact on artistic productivity.

**ENGL 321 LESBIAN AND GAY LITERATURE - 3 semester hours**

Study of representative literary works from the perspective of sexuality and sexual identity. May include consideration of literature by lesbian, gay, and bisexual writers; social and historical contexts of lesbians, gay, and bisexual literature; and theories of sexuality in the study of literature.

**ENGL 322 POST-COLONIAL LITERATURE - 3 semester hours**

Survey of the development of literatures in English in former European colonies. Topics include the spread of European literary forms in Asia, Africa, the Caribbean, and the far new world (Australia and New Zealand) and the ways writers from colonies integrate influences from their cultures and influences from European literary traditions in their work.

**ENGL 323 ENVIRONMENTAL LITERATURE - 3 semester hours**

Study of the relationship between literature and environmental values, and how literary interpretations of the land reflect and influence attitudes toward nonhuman nature and our orientations to our environment. Issues may include the environment as a hostile wilderness, divine nature, the frontier, as well as contemporary nature writers' concern with imperiled ecosystems. Some consideration of Eco criticism.

**ENGL 324 ANGLO-IRISH LITERATURE - 3 semester hours**

Study of Irish literature in translation from medieval sagas and myths to the Irish Literary Revival (1880-1940). Special emphasis on Yeats, Synge, Lady Gregory, Joyce, and the Abbey dramatists.

**ENGL 325 BIBLE AS LITERATURE - 3 semester hours**

Study of selections from the Old and New Testaments as literary texts. May include consideration of the influence of Biblical texts on other literary works and traditions.

**ENGL 326/PHIL 326 MYTHOLOGY - 3 semester hours**

An introductory survey of the traditional mythological narratives of ancient civilizations, considering the origins of myths, their nature, and their functions in shaping and expressing a culture's understanding of the divine, the natural world, human nature, and the institutions of human community.

**ENGL 327/PHIL 327 PHILOSOPHY IN LITERATURE - 3 semester hours**

Study of basic philosophical problems in major works of literature.

**Prerequisite: GEPI 140 or other philosophy course, or permission of instructor(s).**

**ENGL 331 HISTORY OF DRAMA - 3 semester hours**

Study of major developments of drama up to the 20th century. Close reading and discussion of representative plays from major playwrights and literary periods in terms of their historical and social contexts.

**ENGL 332 MODERN DRAMA - 3 semester hours**

Critical study of the development of modern drama from the late 19th century to the present. Close reading and discussion of representative plays from major playwrights and literary movements in terms of their historical and social contexts.

**ENGL 333 READINGS IN POPULAR CULTURE - 3 semester hours**

Variable content. Study of selected popular culture texts. May include genres such as mysteries, science fiction, romances, frontier literature, etc., as well as media such as television, advertising, and film. May be repeated once for credit with different topic, with consent of department.

**ENGL 341 EXPOSITORY WRITING - 3 semester hours**

Focuses on oral and written discourse which is used to describe, explain, inform, and persuade. Emphasizes showing rather than telling to communicate to an audience or reader in clear and objective language. Required readings serve as prompts for the study of rhetorical patterns, style and organization. Involves research and appropriate technology.

**Prerequisite: "C" or better in ENGL 110 and in ENGL 111**

**ENGL 342 TECHNICAL COMMUNICATION - 3 semester hours**

Emphasizes clear, effective communication skills essential to technical and professional writing for students from a variety of majors. Builds on a writing process, basic rhetorical principles, audience awareness, and the writer's role in legal, ethical, and electronic communications. Emphasizes reports, memos, résumés, problem-solving, research, and proposals.

**Prerequisites: "C" or better in ENGL 110 and in ENGL 111**

**ENGL 343 WRITING POETRY - 3 semester hours**

Development of skills in writing and evaluating poetry, with emphasis on traditional forms and patterns as well as contemporary trends; critical analysis of student works in a workshop setting.

**Prerequisite: ENGL 110 Composition I and ENGL 111 Composition**

**ENGL 344 WRITING SHORT FICTION - 3 semester hours**

Development of skills in writing and evaluating short fiction, with emphasis on traditional uses of plot, characterization, etc. as well as contemporary trends; critical analysis of student works in a workshop setting.

**Prerequisite: ENGL 110 Composition I and ENGL 111 Composition**

**ENGL 345 WRITING CREATIVE NON-FICTION - 3 semester hours**

Development of skills in writing and evaluating creative non-fiction prose, with emphasis on forms such as memoir, autobiography, nature and science writing, history, and interviewing writing; critical analysis of student works in a workshop setting.

**Prerequisite: ENGL 110 Composition I and ENGL 111 Composition**

**ENGL 346 PRACTICUM IN WRITING - 1-3 semester hours**

Allows students the opportunity to do hands-on work in the field of professional writing through internships or work opportunities both on-campus and within the community. The number of credit hours earned will be determined by the instructor and based on the number of hours worked. Approval by the department required.

**ENGL 351 INTRODUCTION TO LANGUAGE STUDY - 3 semester hours**

Study of the fundamental characteristics of language and its functions; an overview of phonology, morphology, syntax, and semantics; an introduction to language change and varieties; and an examination of language acquisition and language processing.

**ENGL 352 ENGLISH STRUCTURE - 3 semester hours**

Systematic analysis of language, overview of traditional and modern grammarians' conceptions of English structure, and study of English from the perspectives of structural and generative grammars.

**ENGL 353 FORENSIC LINGUISTICS – 3 semester hours**

An exploration of the interface of Language and the law. Aims at using the scientific analysis of language to advance the cause of justice in the application of the law. Exposes students to the process of applying linguistic theory to the analysis of language data in legal settings.

**Prerequisites: ENGL 110 Composition I; ENGL 111 Composition II, or their equivalents**

**ENGL 361/COMM 361 FILM GENRES – 3 semester hours**

The study of a variety of film styles/genres such as westerns, musicals, melodramas, action, mystery, comedy, and horror. Focuses on themes, conventions, and narrative trends associated with particular genres, placing a strong emphasis on analyzing their influence on other film genres and on other forms of creative expression. Since the specific genres to be explored will vary, the course may be repeated for up to six credit hours as allowed by the department.

**Prerequisite: ENGL 260**

**ENGL 362 LITERATURE AND FILM – 3 semester hours**

The study of film adaptations of significant literary works. Students will read selected literary works and analyze the social, historical, and cultural implications of both the literary works and their film interpretations. A series of screenings throughout the course will help students to evaluate, analyze, and appreciate pieces of literature and their related film adaptations as independent yet equally important creative texts.

**Prerequisite: ENGL 260**

**ENGL 363 IDENTITY IN FILM – 3 semester hours**

The study of identity, race, gender, differences, and representation in film. This course focuses on how people of a variety of races, cultures, genders, and ethnicities are represented in Hollywood films and selected other types of films, with a focus on exploring and analyzing the sociopolitical and cultural factors that influence audiences, directors, and narrative trends.

**Prerequisite: ENGL 260**

**ENGL 364 BLACKS AND FILM – 3 semester hours**

The study of blacks in film from the silent era to the present. Weekly screenings of selected films, with a focus on examining and critically analyzing specific characterizations and narrative functions that have been associated with blacks throughout film history, as well as the impact of black film genres, performers, directors, and producers on the American film industry.

**Prerequisite: ENGL 260**

**ENGL 365 SPECIAL TOPICS IN FILM – 3 semester hours**

The study of special topics in film. Topics will vary, but may include an intensive study of the films of a specific director, a specific movement or trend in film, film as history, gender in film, alternative film forms such as documentaries, independent and foreign films, film and society, politics in film, or other pertinent film topics as established by the instructor. As the topics change, the course may be repeated for up to six credit hours as approved by the department.

**Prerequisite: ENGL 260**

**ENGL 401 CHAUCER - 3 semester hours**

Study of the Canterbury Tales, Troilus and Criseyde, and/or selected minor poems.

**ENGL 402 MILTON - 3 semester hours**

Study of the chief poems and prose works of Milton. Some emphasis on Milton's religious and political ideas.

**ENGL 403 SHAKESPEARE I - 3 semester hours**

Survey of Shakespeare's early work, with reading of selected plays and their study against the background of Elizabethan social, critical, and theatrical ideas. Emphasis on comedies and histories.

**ENGL 404 SHAKESPEARE II - 3 semester hours**

Survey of Shakespeare's later work, with reading of selected plays and their study against the background of Jacobean social, critical, and theatrical ideas. Emphasis on tragedies and romances.

**ENGL 405 THE ENGLISH NOVEL - 3 semester hours**

Study of the English novel from its earliest expressions to the present. Emphasis on social and cultural contexts as well as principal novelists.

**ENGL 406 THE AMERICAN NOVEL - 3 semester hours**

Study of the American novel from its earliest expressions to the present. Emphasis on social and cultural contexts as well as principal novelists.

**ENGL 407 REALISM AND NATURALISM - 3 semester hours**

Study of the ideas, literary methods, and influence of writers who furthered the development of the dominant mode of modern fiction.

**ENGL 408 LITERATURE OF THE AMERICAN SOUTH - 3 semester hours**

Survey of main trends from Colonial times to the present, treated under such topics as patrician tradition, the Civil War, folklore, regionalism, the New South.

**ENGL 409 READINGS IN ENGLISH STUDIES - 3 semester hours**

Variable content. Intensive study of a major issue, movement, form, theme, or figure in literature, film studies and/or language. May be repeated once for credit with different topic, with consent of department.

**ENGL 410 READINGS IN AFRICAN AMERICAN LITERATURE - 3 semester hours**

Variable content. Intensive study of a major issue, movement, form, theme, or writer in African American literature and culture. May be repeated once for credit with different topic, with consent of department.

**ENGL 411 READINGS IN AFRICAN LITERATURE AND CULTURES - 3 semester hours**

Variable content. Intensive study of a major issue, movement, form, theme, or writer in African literatures and cultures. May be repeated once for credit with different topic, with consent of department.

**ENGL 412 CARIBBEAN LITERATURE - 3 semester hours**

Survey of Caribbean literature, which explores fictional and non-fictional prose, poetry, and drama in order to gain an appreciation of the literature and the cultures from which it springs.

**ENGL 420 SURVEY OF LITERARY THEORY AND CRITICISM - 3 semester hours**

Examination of representative writings in literary criticism from ancient times to the present. Emphasis upon the effective application of critical principles to the analysis and evaluation of various literary forms.

**ENGL 421 RHETORICAL TRADITIONS - 3 semester hours**

Introduces major traditions of rhetorical inquiry, with a particular emphasis on their relevance to composition studies. Study of the works of various rhetoricians from the Classical period to Modern times.

**Prerequisites:** “C” or better in ENGL 110 and ENGL 111, or permission of the instructor

**ENGL 422 HISTORY OF THE ENGLISH LANGUAGE - 3 semester hours**

Survey of the historical development of modern English from its earliest Indo-European origins; a study of the sound, vocabulary, word-formation, and sentence structure of Old English, Middle English, and Modern English—including a brief discussion of American dialects.

**ENGL 447 ADVANCED CREATIVE WRITING - 3 semester hours**

A creative writing workshop in which students will complete an ambitious project: a group of short stories or poems, a play, or a novella. Editing, revising and critiquing with attention to the problems of longer literary forms.

**Prerequisite:** ENGL 343, 344, or 345 or permission of the instructor

**ENGL 495 SENIOR SEMINAR IN ENGLISH – 3 semester hours**

A capstone experience for the English major with two components: Intensive study of a selected topic, theme, or author; career preparation. Focus of intensive study with vary according to instructor. Reading and writing intensive study.

**Prerequisite:** Senior standing

## ARABIC

### **ARAB 110 ELEMENTARY ARABIC I - 3 semester hours**

Pronunciation, explanations, and drill in basic structures, easy readings, dictations and daily oral practice; open to those students presenting no admission credit in Arabic.

### **ARAB 111 ELEMENTARY ARABIC II - 3 semester hours**

Supplementary course to Arabic 110; continued pronunciation, explanations, and drill in basic structures, readings, dictations and oral practice.

**Prerequisite: ARAB 110 or its equivalent**

### **ARAB 212 INTERMEDIATE ARABIC I - 3 semester hours**

Review of grammar, reading of moderately difficult prose, practice in oral Arabic, and work in written composition.

**Prerequisite: ARAB 111 or its equivalent**

### **ARAB 213 INTERMEDIATE ARABIC II - 3 semester hours**

Review of grammar, continued practiced in pronunciation and conversation, and reading of moderately difficult prose.

**Prerequisite: ARAB 212 or its equivalent**

## FRENCH

### **FREN 110 ELEMENTARY FRENCH I - 3 semester hours**

Emphasis on the four skills of listening, speaking, reading, and writing in French: Pronunciation, understanding of grammatical construction, basic readings, dictations, and daily oral practice; open to students receiving no admission credit in French.

### **FREN 111 ELEMENTARY FRENCH II - 3 semester hours**

Continued emphasis on the four skills of listening, speaking, reading, and writing in French: Pronunciation, understanding of grammatical construction, readings, dictations, and daily oral practice.

**Prerequisites: FREN 110 Elementary French I or its equivalent**

### **FREN 212 INTERMEDIATE FRENCH I - 3 semester hours**

Inductive review of grammar, reading of moderately difficult prose, and extensive oral drill in basic structures.

**Prerequisite: FREN 111 Elementary French II or its equivalent**

### **FREN 213 INTERMEDIATE FRENCH II - 3 semester hours**

Careful study and reading of representative modern prose with continued practice in pronunciation and conversation and some extensive reading.

**Prerequisite: FREN 212 Intermediate French I or its equivalent**

### **FREN 214 SCIENTIFIC FRENCH - 3 semester hours**

Intensive reading designed to develop an adequate vocabulary in the basic sciences and mathematics.

**Prerequisite: FREN 212 Intermediate French I or its equivalent**

### **FREN 300 SURVEY OF FRENCH LITERATURE I - 3 semester hours**

General survey of French literature from the beginning to 1715, with illustrative readings and reports.

**Prerequisite: FREN 213 Intermediate French II or its equivalent**

### **FREN 301 SURVEY OF FRENCH LITERATURE II - 3 semester hours**

Survey of French literature from 1715 to 1900, with illustrative readings and reports.

**Prerequisite: FREN 213 Intermediate French II or its equivalent**

**FREN 310 FRENCH COMPOSITION - 3 semester hours**

A course including a careful review and application of principles of grammar and considerable practice in writing French; special stress on the acquisition of a stock of idiomatic expressions. Conducted in French as far as possible.

**Prerequisite:** FREN 213 Intermediate French II or its equivalent

**FREN 311 ADVANCED COMPOSITION - 3 semester hours**

Continued practice in writing French with some attention to elements of style, topics for composition work assigned from day to day, and translation into French or English prose. Conducted in French.

**FREN 313 FRENCH CONVERSATION - 3 semester hours**

Systematic study of modern spoken French aimed at the acquisition of a vocabulary based on material dealing with everyday life; the stress group, intonation and daily exercises in simple conversation.

**Prerequisite:** FREN 213 Intermediate French II or departmental permission

**FREN 314 ADVANCED CONVERSATION - 3 semester hours**

Continued practice in spoken French and daily drill in formal and informal speech.

**Prerequisite:** FREN 313 French Conversation or departmental permission

**FREN 410 FRENCH LITERATURE IN THE SEVENTEENTH CENTURY - 3 semester hours**

Study of French classicism as reflected in Malherbe, Corneille, Racine, La Rochefoucauld, Moliere, La Fontaine, La Bruyere, Mme de Sevigne, and others.

**Prerequisite:** FREN 310 French Composition

**FREN 411 FRENCH LITERATURE IN THE EIGHTEENTH CENTURY - 3 semester hours**

Emphasis on nonfictional literature of the period.

**Prerequisite:** FREN 301 Survey of French Literature

**FREN 412 FRENCH LITERATURE IN THE NINETEENTH CENTURY - 3 semester hours**

Romanticism as reflected in Chateaubriand, Mme de Stael, Lamartine, Hugo, Vigny, Musset, Gautier, Dumas pere, G. Sand and others.

**Prerequisite:** FREN 301 Survey of French Literature

**FREN 416 FRENCH CIVILIZATION - 3 semester hours**

Study and discussion of significant aspects of the social, political, and cultural life of France.

**Prerequisite:** FREN 213 Intermediate French II or its equivalent

**FREN 418 SENIOR SEMINAR IN FRENCH – 4 semester hours**

Independent readings in French planned in consultation with and pursued under the direction of the instructor; acquaints the student with methods of research and literary criticism and introduces bibliographical material.

**Prerequisite:** Eighteen semester hours of French

**GERMAN****GERM 110 ELEMENTARY GERMAN I - 3 semester hours**

Emphasis on the four skills of listening, speaking, reading, and writing in German: Pronunciation, understanding of grammatical construction, basic reading, dictations, and daily oral practice; open to students receiving no admission credit in German.

**GERM 111 ELEMENTARY GERMAN II - 3 semester hours**

Continued emphasis on the four skills of listening, speaking, reading, and writing in German: Pronunciation, understanding of grammatical construction, readings, dictations, and daily oral practice.

**Prerequisite:** GERM 110 Elementary German I or its equivalent

**GERM 212 INTERMEDIATE GERMAN I - 3 semester hours**

Review of grammar; reading of moderately difficult prose and poetry with provision for ample practice in oral and written composition.

**Prerequisite: GERM 111 Elementary German II or its equivalent**

**GERM 213 INTERMEDIATE GERMAN II - 3 semester hours**

Study of selected readings of more difficult nature from standard modern authors.

**Prerequisite: GERM 212 Intermediate German I or its equivalent**

**GERM 214 SCIENTIFIC GERMAN - 3 semester hours**

A course designed primarily for science majors and those students preparing to enter medical school.

**Prerequisite: GERM 212 Intermediate German I or its equivalent**

**GERM 300 SURVEY OF GERMAN LITERATURE I - 3 semester hours**

Historical study of German literature from the beginning through Goethe.

**Prerequisite: GERM 213 Intermediate German II**

**GERM 301 SURVEY OF GERMAN LITERATURE II - 3 semester hours**

Historical study of German literature from Goethe to the present.

**Prerequisite: GERM 213 Intermediate German II**

**GERM 310 GERMAN COMPOSITION - 3 semester hours**

Careful review and study of the fundamentals of grammar, including practice in written composition.

Systematic study of pronunciation including sound production, stress group, and intonation of the spoken phrase; exercises in dictation and memorization.

**Prerequisite: GERM 213 Intermediate German II**

**GERM 313 GERMAN CONVERSATION - 3 semester hours**

Systematic drill in speaking modern German; acquisition of vocabulary based on material dealing with everyday life; daily exercises in simple conversation.

**Prerequisite: GERM 213 Intermediate German II or permission of the instructor**

**GERM 415 GERMAN CIVILIZATION - 3 semester hours**

Comprehensive and systematic study of the life of the German people from early middle ages to modern times and their cultural role in the development of world civilization Conducted in German.

**Prerequisite: GERM 310 German Composition or GERM 313 German Conversation**

**GERM 417 GRAMMAR AND COMPOSITION FOR TEACHERS OF GERMAN - 3 semester hours**

Review of grammar and composition designed for prospective teachers and in-service teachers of German; emphasis on the more involved phases of syntax.

**Prerequisite: GERM 310 German Composition or permission of instructor**

**GERM 418 SENIOR SEMINAR IN GERMAN - 4 semester hours**

Independent readings in German planned in consultation with and pursued under the direction of the instructor; acquaints the student with methods of research and literary criticism and introduces bibliographical material.

**RUSSIAN**

**RUSS 110 ELEMENTARY RUSSIAN – 3 semester hours**

Emphasis on the four skills of listening, speaking, reading, and writing Russian. Pronunciation, understanding of grammatical construction, basic readings, dictations, and daily oral practice; open to students presenting no admission credit in Russian.

**RUSS 111 ELEMENTARY RUSSIAN II – 3 semester hours**

Continued emphasis on the four skills of listening, speaking, reading, and writing Russian. Pronunciation, understanding of grammatical construction, basic readings, dictations, and daily oral practice.

**Prerequisite: RUSS 110 Elementary Russian I or its equivalent**

**RUSS 212 INTERMEDIATE RUSSIAN I – 3 semester hours**

Review of grammar, reading of moderately difficult prose, practice in oral Russian, and extensive work in written composition.

**Prerequisite: RUSS 111 Elementary Russian II or its equivalent**

**RUSS 213 INTERMEDIATE RUSSIAN II – 3 semester hours**

Careful study and reading of representative modern prose with continued practice in pronunciation, conversation and composition.

**Prerequisite: RUSS 212 Intermediate Russian I or its equivalent**

**SPANISH**

**SPAN 110 ELEMENTARY SPANISH I - 3 semester hours**

Emphasis on the four skills of listening, speaking, reading, and writing in Spanish: Pronunciation, understanding of grammatical construction, basic readings, dictations, and daily oral practice; open to students receiving no admission credit in Spanish.

**SPAN 111 ELEMENTARY SPANISH II - 3 semester hours**

Continued emphasis on the four skills of listening, speaking, reading, and writing in Spanish: Pronunciation, understanding of grammatical construction, readings, dictations, and daily oral practice.

**Prerequisite: SPAN 110 Elementary Spanish I or its equivalent**

**SPAN 212 INTERMEDIATE SPANISH I - 3 semester hours**

Review of grammar, reading of moderately difficult prose, practice in oral Spanish, and extensive work in written composition.

**Prerequisite: SPAN 111 Elementary Spanish I or its equivalent**

**SPAN 213 INTERMEDIATE SPANISH II - 3 semester hours**

Careful study of representative modern prose; continued practice in pronunciation and conversation.

**Prerequisite: SPAN 212 Intermediate Spanish or its equivalent**

**SPAN 214 COMMERCIAL SPANISH - 3 semester hours**

Designed for business majors and other students preparing for government positions as clerks, stenographers, typists, and in other branches of civil service.

**Prerequisite: SPAN 212 Intermediate Spanish I; SPAN 213 Intermediate Spanish II**

**SPAN 300 SURVEY OF SPANISH LITERATURE I - 3 semester hours**

Survey of Spanish literature from the beginning to the Siglo de Oro.

**Prerequisite: SPAN 213 Intermediate Spanish II**

**SPAN 301 SURVEY OF SPANISH LITERATURE II - 3 semester hours**

Survey of Spanish literature from about 1700 to the present.

**Prerequisite: SPAN 213 Intermediate Spanish II or its equivalent**

**SPAN 310 SPANISH COMPOSITION - 3 semester hours**

Careful review and application of the principles of grammar and considerable practice in writing Spanish with special stress on the acquisition of a stock of idiomatic expressions.

**Prerequisite: SPAN 213 Intermediate Spanish II**

**SPAN 312 PRACTICAL SPANISH PHONETICS - 3 semester hours**

Systematic study of pronunciation including sound production, stress group, and intonation of the spoken phrase with exercises in dictation and memorization.

**Prerequisite:** SPAN 213 Intermediate Spanish II

**SPAN 313 SPANISH CONVERSATION - 3 semester hours**

Daily practice and drill in oral Spanish based principally on topics of current interest.

**Prerequisite:** SPAN 213 Intermediate Spanish II

**SPAN 314 ADVANCED SPANISH CONVERSATION - 3 semester hours**

Continued practice in spoken Spanish through class discussion and oral presentation of topics of current interest; designed for Spanish minors and others admitted by departmental permission.

**Prerequisite:** SPAN 313 Spanish Conversation

**SPAN 315 SURVEY OF LATIN AMERICAN LITERATURE I - 3 semester hours**

General survey of the literature of Latin American beginning with the letters of Cortez and continuing to Ricardo Palma of Peru with emphasis on historical and social background; conducted in Spanish.

**Prerequisite:** SPAN 313 Spanish Conversation

**SPAN 316 SURVEY OF LATIN AMERICAN LITERATURE II - 3 semester hours**

Continuation of SPAN 315 extending from Ricardo Palma to the present; conducted in Spanish.

**Prerequisite:** SPAN 213 Intermediate Spanish II

**SPAN 410 DRAMA OF THE GOLDEN AGE - 3 semester hours**

Review of the rise of the drama of Spain, and critical study of representative works of Lope de Vega, Calderon, Tirso de Molina, Alarcon, Moreto, and others.

**Prerequisite:** SPAN 213 Intermediate Spanish II

**SPAN 412 THE NOVEL IN SPANISH LITERATURE - 3 semester hours**

Examination and analysis of major Spanish novels with emphasis on the works of Cervantes, the picaresque novel, and the regional novel in Spain.

**Prerequisite:** SPAN 213 Intermediate Spanish II

**SPAN 413 THE GENERATION OF 1898 - 3 semester hours**

A study of the works of Valle-Inclan, Azorin, Unamuno, Maexu, and others.

**Prerequisite:** SPAN 213 Intermediate Spanish II

**SPAN 414 SPANISH CIVILIZATION - 3 semester hours**

Comprehensive and systematic study of Spain and its role in world history from its origins as a nation to the transition to democracy and beyond; conducted in Spanish.

**Prerequisite:** SPAN 310 Spanish Composition or SPAN 313 Spanish Conversation)

**SPAN 415 HISPANIC AMERICAN CIVILIZATION II - 3 semester hours**

Comprehensive and systematic study of the origin and development of the Spanish Americas and their role in world history from pre-Columbian civilizations to the present; conducted in Spanish.

**Prerequisite:** SPAN 310 Spanish Composition or SPAN 313 Spanish Conversation

**SPAN 416 SPECIAL TOPICS IN SPANISH - 3 semester hours**

This course is designed to permit an in-depth study in an area of language and/or literature not available in current course offerings. Course may be repeated once upon change of topic.

**Prerequisite:** SPAN 213 Intermediate Spanish II

**SPAN 418 SENIOR SEMINAR IN SPANISH - 4 semester hours**

Independent readings and studies in Spanish planned in consultation with and pursued under the direction of the instructor; acquaints the student with methods of research and literary criticism and introduces bibliographic material.

**Prerequisite:** Eighteen semester hours of Spanish

**SPEECH**

**SPEE 210 GENERAL AMERICAN PHONETICS - 3 semester hours**

Discussion of the International Phonetic Alphabet as applied to American Speech. Analysis of dialects of American English, with attention to Standard American accent.

**SPEE 214 INTRODUCTION TO PUBLIC SPEAKING - 3 semester hours**

Compositional and delivery techniques for speaking before various kinds of audiences; instruction and participation in argumentation, debate, discussions, and parliamentary procedure. Emphasis upon participation.

**Prerequisites:** ENGL 110 Composition I

**SPEE 215 VOICE AND DICTION - 3 semester hours**

An analysis of speech patterns and organs responsible for the production of voice and speech, with special emphasis on the study and practice of the techniques of good articulation.

**Prerequisites:** ENGL 110 Composition I; ENGL 111 Composition II

**SPEE 313 ORAL INTERPRETATION - 3 semester hours**

Experience in reading and in oral presentations to develop greater appreciation for literature and also skills in conveying meanings and moods. Individual opportunities for literary comparisons, analyses, and recordings.

**DEPARTMENT OF LANGUAGES AND LITERATURE**  
**ENGLISH**  
**Bachelor of Arts Degree: 120 Hours**

FRESHMAN YEAR			
Fall Semester		Spring Semester	
ENGL 110: Composition I	3	ENGL 111: Composition II	3
History (GE menu)	3	Humanities elective (GE menu)	3
Math(GEMA 112 or other from GE menu)	3	Math (GEMA 113 or other from GE menu)	3
Social Science (GE menu)	3	Elective	3
Language 212 (or elective—language 110)	3	Language 213 (or elective—language 111)	3
<b>Total Credit Hours</b>	<b>15</b>	<b>Total Credit Hours</b>	<b>15</b>
SOPHOMORE YEAR			
Fall Semester		Spring Semester	
Literature (ENGL 201)	3	ENGL Literature Survey <sup>1</sup>	3
Speech or Drama	3	ENGL Literature Survey <sup>1</sup>	3
Global Studies elective (GE menu)	3	Science (GE menu)	4
Minor	3	Health and Wellness (GE menu)	2
Elective (or language 212)	3	Elective (or language 213)	3
<b>Total Credit Hours</b>	<b>15</b>	<b>Total Credit Hours</b>	<b>15</b>

JUNIOR YEAR			
Fall Semester		Spring Semester	
ENGL Literature Survey <sup>1</sup>	3	ENGL 300/400 Period Coverage <sup>3</sup>	3
ENGL Literature Survey <sup>1</sup>	3	African American Literature <sup>4</sup>	3
Language/Linguistics <sup>2</sup>	3	ENGL 341: Expository Writing	3
Minor	3	ENGL 300/400 Elective	3
Elective	3	Minor	3
<b>Total Credit Hours</b>	<b>15</b>	<b>Total Credit Hours</b>	<b>15</b>

SENIOR YEAR			
Fall Semester		Spring Semester	
ENGL 300/400 Period Coverage <sup>3</sup>	3	ENGL 495 Senior Seminar	3
ENGL 403 or 404: Shakespeare I or II	3	African Diaspora Literature <sup>5</sup>	3
ENGL 300/400 Elective	3	Minor	3
Minor	3	Minor	3
Elective	3	Elective	3
<b>Total Credit Hours</b>	<b>15</b>	<b>Total Credit Hours</b>	<b>15</b>

<sup>1</sup>1 class from English Lit (ENGL 210, ENGL 211), 1 from American Lit (ENGL 212, ENGL 213), 1 from World Lit (ENGL 214, ENGL 215), and 1 other survey class (12 hours total)

<sup>2</sup>1 class from ENGL 351, ENGL 352, ENGL 422

<sup>3</sup>2 classes from areas not covered by surveys. See Period Coverage Menu

<sup>4</sup>1 class from ENGL 311, ENGL 320, ENGL 410

<sup>5</sup>1 class from ENGL 315, ENGL 411, ENGL 412

**DEPARTMENT OF LANGUAGES AND LITERATURE**  
**ENGLISH WITH A MINOR IN SECONDARY EDUCATION**  
**Bachelor of Arts Degree: 123 Hours**

<b>FRESHMAN YEAR</b>			
<i>Fall Semester</i>		<i>Spring Semester</i>	
IDST 100: Analytical R, W, & Reasoning I	(2)*	IDST 100: Analytical R, W, & Reasoning II	(2)*
FRST 101: Freshman Studies	2	ENGL 111: Composition II	3
ENGL 110: Composition I	3	History (GE menu)	3
History (GE menu)	3	Math (GE menu)	3
Math (GE menu)	3	Language: 213	3
Language: 212	3	Science (GE menu)	4
Health and Wellness (GE menu)	2		
<b>Total Credit Hours</b>	<b>16</b>	<b>Total Credit Hours</b>	<b>16</b>

\* As necessary

<b>SOPHOMORE YEAR</b>			
<i>Fall Semester</i>		<i>Spring Semester</i>	
ENGL 201: Introduction to Literature	3	Literature Surveys <sup>1</sup>	6
EDUC 201: Introduction to Teaching I	2	EDUC 202: Introduction to Teaching II	2
IDST 200: Digital Media in Teacher Ed	3	Science (GE menu)	4
PSYC 212: Human Growth & Development	3	Music or Art elective	3
Speech or Drama elective	3		
<b>Total Credit Hours</b>	<b>14</b>	<b>Total Credit Hours</b>	<b>15</b>

<b>JUNIOR YEAR</b>			
<i>Fall Semester</i>		<i>Spring Semester</i>	
Literature Survey <sup>1</sup>	3	Literature Survey <sup>1</sup>	3
ENGL 341: Expository Writing	3	Language / Linguistics <sup>2</sup>	3
Language / Linguistics <sup>2</sup>	3	ENGL 403 <b>or</b> 404: Shakespeare I <b>or</b> II	3
African American Literature <sup>3</sup>	3	Philosophy elective	3
EDUC 315: Data Driven Instructional Design	3	SPED 403: Classroom Mgmt. In Ed Settings (FE)	3
ENGL 300/400 course	3		
<b>Total Credit Hours</b>	<b>18</b>	<b>Total Credit Hours</b>	<b>15</b>

<b>SENIOR YEAR</b>			
<i>Fall Semester</i>		<i>Spring Semester</i>	
ENED 431: Composition Theory & Practices	3	EDUC 401: Student Teaching Seminar	3
ENED 432: Reading and Literature	3	ENED 402: Student Teaching English	3
African Diaspora Literature <sup>4</sup>	3	EDUC 402: Student Teaching	9

<sup>1</sup> 1 class from English Lit (ENGL 210, ENGL 211), 1 from American Lit (ENGL 212, ENGL 213), 1 from World Lit (ENGL 214, ENGL 215) and 1 other survey class (12 hours total)

<sup>2</sup> 1 class from ENGL 351, ENGL 352, ENGL 422

<sup>3</sup> 1 class from ENGL 311, ENGL 320, ENGL 410

<sup>4</sup> 1 class from ENGL 315, ENGL 411, ENGL 412

ENED 371: Teaching of Engl. in Sec. Schools	3		
EDUC 424: Critical Issues in Education	2		

<b>GENERAL EDUCATION COURSES</b>	<b>SEMESTER HOURS</b>
English (ENGL 110 & ENGL 111)	6
Math (GEMA 112 & GEMA 113)	6
History (GEHI 122, 123, 114, or 115)	3
Social Science	3
Science	3
Health & Wellness	2
Literature	3
Humanities	3
Global Studies	3
<b>TOTAL</b>	<b>33</b>

**Minors in the Department of Languages and Literature include:**

- Africana Studies
- Drama
- English
- Film Studies in Literature
- Writing
- Spanish
- French
- German

## Africana Studies Minor

**The Africana Studies Minor requires 18 semester hours.**

COURSE	TITLE	SEM HRS
<b>Required course:</b>		
IDUP 270	Introduction to Africana Studies	3
<b>One course from the following:</b>		3
ENGL 311	African-American Literature	
ENGL 320	Harlem Renaissance	
ENGL 410	Readings in African American Literature	
<b>One course from the following:</b>		3
ENGL 315	African Literature	
ENGL 411	Readings in African Literature	
ENGL 412	Caribbean Literature	
<b>One course from the following:</b>		3
IDUP 371	Study Abroad in Africa (3 to 6 hours)	
IDUP 470	Special Topics in African Studies	
<b>One course from EACH category below:</b>		
Unrestricted Elective	Humanities Course in Blacks in Africa or African Diaspora	3
Unrestricted Elective	Social Science Course in Blacks in Africa or African Diaspora	3

### Drama Minor

Students in any school at Virginia State University may declare the Minor in Drama. The Drama Minor requires 19 semester hours. A grade of “C” or better is required in all courses.

COURSE	TITLE	SEM HRS
<b>Required Courses:</b>		
DRAM 113	Acting I	3
DRAM 199	Drama Appreciation	3
DRAM 215	Stagecraft I	3
DRAM 301	Dramatic Production	1
SPEE 215	Voice and Diction	3
<b>Two (2) of the following courses:</b>		6
DANC 110	Freshman Repertory	
DRAM 217	Activities in Drama	
DRAM 313	Acting II	
DRAM 414	Directing and Producing	
SPEE 313	Oral Interpretation	
ENGL 331	History of Drama	
ENGL 332	Modern Drama	
ENGL 403	Shakespeare I	
ENGL 404	Shakespeare II	

### English Minor

Students in any school at Virginia State University may declare the Minor in English. The English Minor requires 18 semester hours.

COURSE	TITLE	SEM HRS
<b>Three (3) courses from the following:</b>		9
ENGL 210	English Literature I	
ENGL 211	English Literature II	
ENGL 212	American Literature I	
ENGL 213	American Literature II	
<b>One (1) course from the following:</b>		3
ENGL 401	Chaucer	
ENGL 402	Milton	
ENGL 403	Shakespeare I	
<b>One (1) literature course at the 300/400 level</b>		3
<b>One (1) ENGL course at the 300/400 level in any field offered by the department</b>		3

### Film Studies in Literature Minor

Students in any school at Virginia State University may declare the Minor in Film Studies in Literature. The Film Studies in Literature Minor requires 18 semester hours.

COURSE	TITLE	SEM HRS
<b>Required Course:</b>		
ENGL 260	Introduction to Film Studies	3
<b>Five (5) courses from the following:</b>		15
ENGL/COMM 361	Film Genres (may be repeated once under a different topic with department approval)	
ENGL 362	Film and Literature	
ENGL 363	Identity in Film	
ENGL 364	Blacks and Film	
ENGL 365	Special Topics in Film (may be repeated once under a different topic with department approval)	

### Writing Minor

#### 18 semester hours from the following list:

ENGL 240: Introduction to Creative Writing  
 ENGL 341: Expository Writing  
 ENGL 342: Technical Communication  
 ENGL 343: Writing Poetry  
 ENGL 344: Writing Short Fiction  
 ENGL 345: Writing Creative Nonfiction  
 ENGL 346: Writing Practicum  
 ENGL 421: Rhetorical Traditions  
 ENGL 447: Advanced Creative Writing  
 GEEN 310: Advanced Communication Skills

Students also may elect any one course that is a practical writing course (i.e., a course which focuses primarily on disciplinary-specific writing and which includes explicit writing instruction\*) from another department. Students should get pre-approval from their advisor for specific courses.

\*A course with the “writing intensive” label may not qualify if it simply includes several writing assignments.

### Spanish Minor

Students in any school at Virginia State University may declare the Minor in Spanish. The Spanish Minor requires 18 semester hours.

<b>COURSE</b>	<b>TITLE</b>	<b>SEM HRS</b>
SPAN 212	Intermediate Spanish I	3
SPAN 213	Intermediate Spanish II	3
SPAN 310	Spanish Composition	3
SPAN 313	Spanish Conversation	3
<b>Two (2) SPAN courses at the 200 level Or above, one of which must be at the 300/400 level</b>		6

### French Minor

Students in any school at Virginia State University may declare the Minor in French. The French Minor requires 18 semester hours.

<b>COURSE</b>	<b>TITLE</b>	<b>SEM HRS</b>
FREN 212	Intermediate French I	3
FREN 213	Intermediate French II	3
<b>One (1) course from the following:</b>		3
FREN 310	French Composition	
FREN 313	French Conversation	
FREN 314	Advanced Conversation	
<b>Two (2) courses from the following:</b>		6
FREN 410	French Literature of the 17 <sup>th</sup> Century	
FREN 411	French Literature of the 18 <sup>th</sup> Century	
FREN 412	French Literature of the 19 <sup>th</sup> Century	
FREN 416	French Civilization	
<b>Unrestricted Elective:</b> Any three-hour course from the French curriculum exclusive of FREN 110 and FREN 111		3

## German Minor

Students in any school at Virginia State University may declare the Minor in German. The German Minor requires 18 semester hours.

<b>COURSE</b>	<b>TITLE</b>	<b>SEM HRS</b>
GERM 212	Intermediate German I	3
GERM 213	Intermediate German II	3
GERM 310	German Composition	3
GERM 313	German Conversation	3
<b>One (1) course from the following:</b>		3
GERM 300	Survey of German Literature I	
GERM 301	Survey of German Literature II	
<b>One (1) course from the following:</b>		3
GERM 312	Practice in German Phonetics	
GERM 415	German Civilization	

## DEPARTMENT OF MASS COMMUNICATIONS

- Chairperson:** Carlton E. Edwards (Interim)  
Harris Hall, Room 216  
804-524-6900
- Associate Professors:** Curtis R. Holsopple, Cherlyn Johnson
- Assistant Professors:** Duane Byrge, Ishmail Conway, Carlton Edwards, Eric Jackson, Alicia Morris, Joseph Preston, Bridgett Robertson, Willis Smith
- Instructors:** Brandon Green, Jennifer Williamson, Naleli Murry, Gwendolyn Dandridge, Joyce Dial

### Description of the Department

The VSU Department of Mass Communication offers students the opportunity to earn a bachelor's degree in Mass Communication and/or a Master of Media Management. Students in our Department learn skills needed to work and thrive in the new multimedia environment. They are prepared to pursue careers in public relations, journalism, film, audio/video production, print media, and other communication industries. Our students are guided by departmental advisors and mentors who provide an immersive, supportive and scholarly learning environment.

Our students are taught by accomplished communication professionals. Many of our Mass Comm faculty have worked in the industry in which they teach, adding to the depth of their knowledge. In addition, the Department's faculty are active in industry related academic and professional research and creative activities relevant to the mass communication field. We strive to incorporate students in these activities, exposing them to professional environments, standards, and expectations. We have memoranda of understanding to provide media services to various non-profit and educational agencies in the surrounding community. We also actively collaborate with other academic units within Virginia State University and with other institutions for research and media services purposes. Students are given opportunities to learn within the classrooms, and then utilize that knowledge to gain work place experience by participating in our media service projects.

Many of our multimedia classrooms, media production facilities, studios, and labs are located in the University's new state of the art multipurpose center.

### Mission of the Department

The mission of the VSU Department of Mass Communication is to pursue excellence while preparing and inspiring student leaders to be transformative global media innovators who are adept at traditional and emerging communication technologies and prepared for evolving mass communication careers.

### Programs Offered

We offer a Bachelor of Arts in Mass Communication. Within that program, students may specialize in audio production, video production, broadcast journalism, film studies, public relations, and print and online media. Students interested in specific specialization(s) should contact their advisors or the department chairperson. All students are required to complete an internship in a professional setting. An additional internship is possible. Students may opt to take preparation in graduate school, prepare a significant media project, and write a scholarly senior thesis.

We offer a flexible undergraduate Minor in Mass Communications, giving students from other academic disciplines exposure and training in the fundamentals of mass media. We are collaborating with other departments across the university to design academic minor programs that blend mass communications skills with other disciplines.

The Department of Mass Communication offers an array of digital media classes that train students in the use of widely-used, high-end, industry production software and hardware including Avid Media Composer. Our Master of Arts in Media Management is designed to provide industry professionals with additional training necessary for them to move higher in their media corporate organization. It also accepts recent undergraduates seeking extended preparation as they enter the job market.

**MASS COMMUNICATIONS**  
**Course Descriptions**

**COMM 201 INTRODUCTION TO MASS COMMUNICATIONS - 3 semester hours**

Analysis of the communications professions through an understanding of their structure and functions, their development, their performance, and the controls exercised over them by various groups and institutions. A survey of newspapers, film, broadcasting, advertising, and public relations.

**Prerequisite: No prerequisites.**

**COMM 202 INTRODUCTION TO MEDIA TECHNOLOGY - 3 semester hours**

Orientation to computer skills essential for today's digital environment in mass communications. Training in file and folder management, electronic messaging, file transfer via Internet and e-mail, and digital editing software for audio, images and video and other emerging technologies.

**Prerequisites: ENGL-110, ENGL-111, and COMM-201 with a C or higher**

**COMM 205 INTRODUCTION TO JOURNALISM - 3 semester hours**

Working on deadline, students are exposed to the basics of news writing; emphasis on development of interviewing, news writing, and information gathering skills. Accuracy, fairness, and ethical issues in reporting are stressed.

**Prerequisites: ENGL-110, ENGL-111, and COMM-201 with C or higher.**

**COMM 210 PUBLIC PRESENTATION - 3 semester hours**

Emphasis on oral and written communications for public consumption. This course prepares students for effective oral delivery, multi-media presentations, and business communications. Students will be video recorded for feedback and improvement in quality of delivery.

**Prerequisites: COBU-101 Introduction to Business or  
COMM-201 Introduction to Mass Communications.**

**COMM 301 HISTORY OF AFRICAN AMERICANS IN THE MEDIA - 3 semester hours**

An overview of the history and contributions of African Americans in Mass Media. Examines legislation that aids or impacts negatively on the careers of African Americans, and particularly African American women.

**Prerequisite: ENGL-110, ENGL-111, and COMM 201 or permission of instructor.**

**COMM 302 HISTORY AND APPRECIATION OF FILM - 3 semester hours**

Introduction to film history and criticism. Examination of motion picture genres as handled by major directors and analysis of cinema as a narrative art from beginnings to the present day. Weekly screening and discussions of important motion pictures not only as art but as they reflect and affect our times.

**Prerequisite: ENGL-110, ENGL-111, and COMM 201 or permission of instructor.**

**COMM 303 HISTORY OF PRINT AND ONLINE TECHNOLOGY - 3 semester hours**

A historical review of the development of early print media into newspaper journalism and an analysis of the impact that on-line technology has had on the practice of journalism. Open to non-majors.

**Prerequisite: ENGL-110, ENGL-111, and COMM 201 or permission of instructor.**

**COMM 304 HISTORY OF BROADCASTING - 3 semester hours**

A detailed exploration of the historical development of radio, television, and film as mass media, with emphasis on their structure, economics, and programming. Open to non-majors.

**COMM 310 MEDIA WRITING LAB - 3 semester hours**

Students practice advanced news writing for newspapers, magazines and on-line publication. They further refine the skills learned in COMM-205.

**Prerequisites: ENGL-110, ENGL-111, COMM-201, COMM-202 and COMM-205.**

**COMM 311 WRITING FOR BROADCAST - 3 semester hours**

An introductory broadcast writing course designed to familiarize students with script formats and various types of broadcast writing. While students will learn proper techniques of copy-writing employed in both television and radio production which includes documentary and continuity writing, emphasis is placed on broadcast news writing. Students will be required to write broadcast news stories as well as various type of radio and television copy.

**Prerequisite:** COMM-202, COMM-205

**COMM 312 MEDIA RESEARCH - 3 semester hours**

Students will be introduced to research skills and techniques as they apply to the mass media industry. Students will perform basic field research, learning survey construction and data analysis techniques used in the industry.

**Prerequisite:** ENGL-110, ENGL-111 and COMM-201, COMM-202 with C or higher.

**COMM 314 PHOTOJOURNALISM - 3 semester hours**

Emphasizes the basic elements of photography for the mass media, including print and on-line journalism, advertising, public relations, and television. The emphasis is on the photojournalistic value of truth-telling rather than creating a fantasy or illusion. Student learns how to compose, shoot, and edit using digital still cameras and associated computer software. This course includes foundation skills for shooting video. Open to non-majors.

**Prerequisites:** COMM 201, COMM-202; open to non-majors with permission of the instructor.

**COMM 321 PUBLIC RELATIONS 1 - 3 semester hours**

An overview of the principles, policies and research methods, as well as the historical and contemporary practices of public relations in business, government, associations, and other organizations; analysis of public relations programs, ethics of public relations practice, and options of career opportunities.

**Prerequisite:** COMM-201, MCOM-205

**COMM 322 PUBLIC RELATIONS 2 - 3 semester hours**

Practice in media relations; the development of professional writing skills with emphasis on social media campaigns, external and internal communications: press releases, public service announcements, publication design, employee communications, speech writing, audio visual presentations, and news conferences.

**Prerequisite:** COMM-321

**COMM 324 PUBLIC RELATIONS PRACTICUM - 3 semester hours**

Workshops, guest speakers, and in-class exercises equip students to research, design, implement and complete public relations projects for community-based organizations. PR professionals from corporations and non-profits serve as guest lecturers, establishing a foundation from which students develop a Social Responsibility Report (hands on) and PR Case Study research paper.

**Prerequisite:** COMM 322

**COMM 326 ORGANIZATIONAL COMMUNICATION - 3 semester hours**

This course covers issues and processes used by public information officers and public relations officials in connecting a corporation or public figure with the public served.

**Prerequisites:** COMM-205, and either COMM-311 or COMM-351

**COMM 331 AUDIO PRODUCTION - 3 semester hours**

The study and practice of basic concepts, skills, and techniques involved in audio for broadcast and recording studios. Emphasis is on equipment skills, especially digital audio editing and audio console controls. The class also covers announcing techniques and writing for broadcast. This course lays the foundation for the audio component of video production and digital editing techniques.

**Prerequisites:** COMM-201, COMM-202, and

**COMM-205; open to non-majors, with permission of the instructor.**

**COMM 335 – PRO TOOLS 101 - 3 semester hours**

This course takes a comprehensive approach to learning the fundamentals of digital audio systems. The student will learn to build sessions that include multi-track recordings of live instruments, MIDI sequences, software synthesizers and samplers, and audio looping with REX or ACID files. Through hands-on tutorials, the student will develop essential techniques for recording, editing, and mixing.

**Prerequisites:** COMM-202 or basic computer knowledge including the ability to use a keyboard, mouse and an Apple or Windows based operating system.

**COMM 336 – PROTOOLS 110 - 3 semester hours**

This course covers the key concepts and skills needed to operate a digital audio system in a home studio environment. In addition to recording and editing, the student will learn the essentials of automation and will work with both audio and MIDI. Hands on experience will be gained through a series of class exercise project files.

**Prerequisites:** COMM-335

**COMM 337 – PRO TOOLS 201 - 3 semester hours**

This course covers the core concepts and skills needed to operate a digital audio system in a professional studio environment. Students will be introduced to professional audio systems as well as control surfaces. Students will go into greater depth into concepts such as automation, editing, mixing and session management. Experience will be gained through a series of class exercises and project files.

**Prerequisites:** COMM-336

**COMM 338 - PRO TOOLS 210M - 3 semester hours**

This course prepares students to competently operate a sophisticated Pro Tools system in a professional environment with a focus on audio production. Students are exposed to a number of music production techniques including interacting with external MIDI devices, loop editing, sampling in Pro Tools and using sound replacer.

**Prerequisites:** COMM-337

**COMM-341 TELEVISION PRODUCTION – 3 semester hours**

A production course designed to familiarize students with the basic fundamentals of operating audio and video equipment in a TV studio environment and to provide a basic understanding of television system operation, production techniques, television terminology, crew responsibilities, and visual aesthetics.

**Prerequisites:** COMM-371

**COMM 342 ADVANCED TELEVISION PRODUCTION - 3 semester hours**

A continuation of COMM 341. This course is designed to expose students to the fundamentals of electronic field production (EFP) and electronic news gathering (ENG). Emphasis is placed on treatment and script development, visual aesthetics, analog and digital technology, pictorial continuity, and non-linear video editing techniques. Students will develop treatments, scripts, and storyboards in addition to producing and editing several short video projects such as public-service announcements, video promotions, and news packages. The course includes study and practical experience in television production, including television programming. Planning and videotaping of students' projects.

**Prerequisite:** COMM-341

**COMM 351 – PRINT AND ON-LINE MEDIA JOURNALISM - 3 semester hours**

Students practice writing for on-line publications and assess the practicality of photos and graphics.

**Prerequisites:** COMM-201, COMM-202, and COMM-205

**COMM 352 – PRINT AND ON-LINE MEDIA PRODUCTION - 3 semester hours**

This course is a continuation of COMM-351. Students learn to build web pages typical of those used by on-line publications and media professionals, using both text and graphics.

**Prerequisite:** COMM-351

**COMM 354 COPY EDITING -3 semester hours**

Emphasis on journalistic desk work; editing stories, headline writing, typography, layout functions and relationships. **Prerequisites: COMM-201, COMM-205, and COMM-351**

**COMM 360 WRITING FOR FILMMAKING - 3 semester hours**

A screen writing course designed to familiarize students with the basic structure and dynamics of short-film and feature-film screenplays. The course will focus on the aesthetics of cinematic storytelling, presenting visual grammar in combination with dialogue and narrative. The course will also examine the structure of the feature-length screenplay, beginning with a treatment and culminating with generating the "first act" of a film script.

**Prerequisite: Open to non-majors, with permission of the instructor.**

**COMM 361 FILM GENRES - 3 semester hours**

The study of a variety of film styles/genres such as westerns, musicals, melodramas, action, mystery, comedy, and horror. Focuses on themes, conventions, and narrative trends associated with particular genres, placing a strong emphasis on analyzing their influence on other film genres and on other forms of creative expression. Since the specific genres to be explored will vary, the course may be repeated for up to six credit hours as allowed by the department. Cross-listed as ENGL- 361 Film Genres.

**Prerequisite: COMM-302 or permission of instructor.**

**COMM-371 MEDIA TECHNOLOGY WORKSHOP – 1 to 3 semester hours**

This is an opportunity for students to learn more about the equipment and technology in mass communications. Students will learn to properly shoot and edit video as well as become familiar with the television studio. Students may also be assigned to studio construction or maintenance tasks, or working on specific special events, for which they will receive training and academic credit. Course may be repeated for up to three semester hours.

**Prerequisite: COMM-202; open to non-majors, with permission of the instructor.**

**COMM 374 COMMUNICATION GRAPHICS - 3 semester hours**

This course uses photo editing tools and typography to effectively design layouts for print media and advertising. It covers the basic knowledge of computer graphics software Adobe Photoshop and Adobe InDesign as well as various printing processes .

**Prerequisites: COMM-201, COMM-202**

**COMM 375 THE CREATIVE PROCESS IN ADVERTISING - 3 semester hours**

An in-depth approach to developing creative advertising for various media, with an emphasis on print. Focus is on the importance of creativity in advertising. This practice is applied to the development of original, strategically-sound, advertising campaigns.

**Prerequisites: COMM-201, COMM-202, and COMM-374 Communications Graphics**

**COMM-376 THREE-DIMENSIONAL DESIGN FOR MASS MEDIA - 3 semester hours**

The course will introduce the student to the basic elements of three-dimensional design as they apply to video and other recorded media. These will be placed in context with such factors as emotional appeal, scale, unity and balance. Student will do projects involving the basic elements of form, exploring how these elements can be utilized to design and create objects that are both esthetically appealing and structurally sound, while meeting prescribed criteria. The course will consist of slide lectures, discussions, and studio projects.

**Prerequisites: COMM-201**

**COMM 377 IMPACT AND MEDIA – 3 semester hours**

This course involves the study of cross-platform on-camera and information gathering techniques and procedures used to craft news, entertainment, and sporting programs and stories and how their emotional impact upon TV and radio audiences. Additionally, students will learn to apply lighting techniques, color and shot angles to communicate emotions of what is being shown. Joy, Pain, Fear and empathy are but a few emotions that will be explored and produced for this course. Students will do projects involving emotional elements to understand their impact and utilize them successfully as a communication tool. The course will consist of slide lectures, discussions, and studio projects.

**Prerequisite: COMM 331, 341.**

**COMM 381 MEDIA CREATIVE PROJECT - 1 semester hours**

Students enrolled in this course must prepare a proposal for a significant creative work, and they must secure permission from a faculty sponsor. Typical projects might include an audio or video documentary, a book writing project, a series of magazine articles, a substantial Web page design, a sizable photo portfolio, etc. The student should seek a faculty sponsor for this course, such that a good match exists between the student's area of interest, the job site, and the faculty sponsor.

**Prerequisites: Junior or senior standing, and prior approval of faculty sponsor.**

**COMM 383 SERVICE LEARNING PROJECT - 1 semester hour**

Students enrolled in this course will participate in an on-campus or community-centered activity, relating some aspect of mass communications with community needs. A typical project might be to help school children develop multi-media presentations; serve as a resource person for school media projects, etc. The student should seek a faculty sponsor for this course, such that a good match exists between the students are of interest, the job site, and the faculty sponsor's areas of expertise.

**Prerequisites: Permission of faculty sponsor, and prior approval of job site supervisor.**

**COMM 389 SPECIAL TOPICS IN MASS MEDIA - 3 semester hours**

Working under direction of a professor, a student explores a specific area or field relating mass communications.

**Prerequisites: COMM-201, COMM-202, COMM-205, Junior standing, and prior approval of the instructor.**

**COMM 391 GRADUATE SCHOOL PREPARATION 1 - 3 semester hours**

Students who anticipate attending graduate school will receive orientation to the academic rigor expected for post-college studies. Students will investigate graduate programs appropriate to their interests and training, becoming familiar with entrance requirements and courses likely to be encountered. The course will culminate in preparing and defending a graduate-level research paper, including following the requisite writing style guide, such as MLA or APA.

**Prerequisites: COMM-201, COMM-202, COMM, 205, either COMM-311 or COMM-351, completion of a college-level research and statistics course such as SOCI-317, Junior or senior standing, and approval of the student's academic advisor.**

**COMM 411 FIELD OBSERVATION IN MASS MEDIA - 1 semester hour**

This course gives students the opportunity to observe media practitioners in the workplace. Students will keep journals of their observations. Students are expected to document at least 30 hours of on-site observation using journal entries, photography, audio or video recordings, as appropriate to their assignment, using these materials to prepare a comprehensive report of the experience. If circumstances permit, the student is allowed to perform work on the job site. The student should seek a faculty sponsor for this course, such that a good match exists between the student's area of interest, the job site, and the faculty sponsor's expertise.

**Prerequisites: Junior standing, permission of faculty sponsor, prior approval of job site supervisor.**

**COMM 413 MEDIA ARGUMENTATION AND DEBATE - 1 semester hour**

Students will learn the art and technique of argumentation and debate and participate in debates on controversial issues affecting media professionals.

**Prerequisites: Junior or senior standing. Open to non-majors, with permission of instructor.**

**COMM 415 MEDIA MANAGEMENT - 3 semester hours**

Students will be prepared for future management positions in the broadcast media, through the study of concepts and principles of media management. Students will examine how media companies function today, and how students can prepare themselves as future managers, producers or talent agents.

**Prerequisites:** COMM-201, COMM-202, COMM-205, and Senior standing

**COMM 417 MASS MEDIA LABORATORY - 1 semester hour**

Mass Media labs will supplement the content of mass communications lectures. The laboratory is designed to help students develop their specific communication skills and apply theories through various exposure and/or experiences. It will help mass communications students become more informed and be discerning media consumers. Laboratories are break-out sessions that will be hosted by different faculty members or guests who will provide an additional syllabus and a 1 credit grade. The sessions are based on the content of the associated class lecture (journalism lab, advertising lab, discovery lab, leadership development lab). The instructor will have a schedule of assignments, readings, field trips and discussions planned for students.

**Prerequisites:** For Mass Communications majors only.

**COMM 418 PERFORMANCE IN POPULAR CULTURE - 3 semester hours**

This course will study the development of popular music and its African American roots and heritage. The study begins with the remnants of African musical traits that survived slavery and traces them through blues, ragtime, jazz, blues and rhythm and blues, and on into rap and hi-hop and other movements. The discussion will focus on the musical traits of each, the relationship to African American popular music, and the societal effects on the music as well as the music's effect on society.

Open to non-majors.

**COMM 419 POPULAR CULTURE - 3 semester hours**

This course surveys the history of popular culture, media effects on society, theories surrounding media criticism, and current topics and trends. Students will be expected to study and critically analyze mass media artifacts and texts.

**Prerequisites:** COMM-205 and Junior standing. Open to non-majors with permission of the instructor.

**COMM 431 ADVANCED AUDIO PRODUCTION - 3 semester hours**

A continuation of COMM-331 Audio Production; further study and practical experience in advanced audio production techniques, including radio station programming, television studio audio control, recording studio and venue sound reinforcement requirements. Student projects will focus on various types of productions done at both commercial and noncommercial stations. Open to non-majors with permission of instructor.

**Prerequisite:** COMM-331 Audio Production or permission of instructor.

**COMM 445 NEWS PRODUCTION - 3 semester hours**

This is an advanced-level broadcast production course designed to provide students with practical experience in developing, producing, and directing a broadcast-quality 15-minute television newscast. Based upon previous experience, students will be assigned to perform a number of different functions such as researching topics, writing broadcast scripts, formatting and timing show segments, shooting and editing video, serving as talent, and producing video packages. Each student is required to write and produce segments of the newscast on a weekly basis and well as performing other assigned tasks such as operating production equipment. This course requires a large amount of work outside of class.

**Prerequisites:** COMM-311, COMM-331, COMM-341, COMM-342, or permission of the instructor.

**COMM 473 MULTI-MEDIA TECHNOLOGIES - 3 semester hours**

A practical application of new technology, including computer and digital technology, interactive media, telecommunications, and virtual reality. The course gives students familiarity with current media technologies used to produce, store and share sound, image and video files, and in the production of Web design and Web-based publishing. Open to non-majors with permission of the instructor.

**Prerequisites:** COMM-201, COMM-202, and Junior or Senior standing and permission of instructor.

**COMM 475 BROADCAST ENGINEERING CERTIFICATION - 3 semester hours**

This course is designed for both Mass Communications and Electrical Engineering students who are focused on the technical aspects of broadcast technology. Students will survey broadcast technology and the particular demands placed on combining audio and RF environments. Students are to work toward formal certification, such as an FCC General Radiotelephone Operator's License, the certification by the Society of Broadcast Engineers, or the Technician Class Amateur Radio License.

**Prerequisite: Permission of instructor.**

**COMM 465 CINEMATOGRAPHY - 3 semester hours**

This is a hands-on course designed to expose students to the fundamentals of single-camera production for film and television and to develop a basic understanding of filmmaking and videography. Emphasis is placed on drama script and storyboard development, shot selection, pictorial continuity, and basic video editing techniques and aesthetics. Students will develop treatments, scripts, and storyboards and produce a short dramatic film project.

**Prerequisites: COMM-314, COMM-371, COMM 373, and Junior or Senior standing.**

**COMM 490 MEDIA LAW AND ETHICS SURVEY- 3 semester hours**

A study of legal issues and constitutional freedoms affecting the mass media, with emphasis on libel, copyright labels, FCC rules and regulations, the principles of professional ethics, and the social responsibility of mass communications. **Prerequisites: COMM-201, and Senior standing**

**COMM 491 GRADUATE SCHOOL PREPARATION 2 - 3 semester hours**

Students who anticipate attending graduate school will receive orientation to the academic rigor expected for post-college studies. Students will apply to one or more graduate programs appropriate to their interests and training, and they will prepare for and may take the relevant entrance exam, such as the GRE. As a continuation of COMM-391, this course will include further training in preparing and defending a graduate-level research paper, including following the requisite writing style guide, such as MLA or APA.

**Prerequisites: COMM-391, Senior standing.**

**COMM-496 Internship in Mass Media – 3 semester hours, Fall, Spring, Summer**

Supervised work experience in mass media with emphasis on practical application of classroom concepts. Minimum of 120 hours of assigned work, typically spread across four weeks or more, to receive (3) units of academic credit under the direction of the Internship Supervisor on- site. Regular mandatory meetings with the Mass Communications Internship Coordinator; weekly written reports, site evaluations, mid-term report and a final report. Mandatory class schedule with Mass Communications Internship Coordinator as specified in the course syllabus. A second internship with a significantly different assignment may be conducted for an additional three semester hours, with approval of the internship coordinator and faculty advisor.

**Prerequisites: Senior standing and prior approval and permission of the Mass Communications Internship Coordinator.**

**COMM 497 INTERNSHIP IN MASS MEDIA - 3 semester hours**

Supervised work experience in mass media with emphasis on practical application of classroom concepts. Minimum of 120 hours of assigned work, typically spread across four weeks or more, to receive (3) units of academic credit under the direction of the Internship Supervisor on- site. Regular mandatory meetings with the Mass Communications Internship Coordinator; weekly written reports, site evaluations, mid-term report and a final report. Mandatory class schedule with Mass Communications Internship Coordinator as specified in the course syllabus. A second internship with a significantly different assignment may be conducted for an additional three semester hours, with approval of the internship coordinator and faculty advisor.

**Prerequisites: Senior standing and prior approval and permission of the Mass Communications Internship Coordinator.**

**COMM-499 SENIOR SEMINAR IN MASS COMMUNICATIONS - 3 semester hours**

A capstone course for Mass Communications majors focused on reading and researching selected topics in mass communications; designed to integrate knowledge in the various areas of mass communications and to prepare students to take exit examination, produce a portfolio, and gain experience in research and oral presentation.

**Prerequisite: To be taken in the last semester of a student's Mass Communications curriculum.**

**DEPARTMENT OF MASS COMMUNICATION and COMMUNICATION SERVICES**  
**Bachelor of Arts Degree (120 hours)**

**FRESHMAN YEAR**

**Semester Hours**

		<b>1st Sem</b>	<b>2nd Sem</b>	<b>Total Hours</b>
ENGL-110	Composition 1	3	-	3
MATH-112	Basic Math 1 (or higher)	3	-	3
Science – lecture and lab	(from GE Menu)	4	-	4
Global Studies	(from GE menu)	3	-	3
History	(from GE menu)	3	-	3
ENGL-111	Composition 2	-	3	3
MATH-113	Basic Math 2 (or higher)	-	3	3
HPER-170	Health and Wellness (or two 1 hr phys educ)	-	2	2
COMM-201	Intro to Mass Communications	-	3	3
COMM-202	Intro to Media Technology	-	3	3
COMM-205	Intro to Journalism	-	3	3
<b>Totals</b>		<b>16</b>	<b>17</b>	<b>33</b>

**SOPHOMORE YEAR**

Humanities	(from GE menu)	3	-	3
SPEE-215	Voice and Diction	3	-	3
ENGL-201	(or higher English literature course)	3	-	3
COMM-	history (301, 302, 303 or 304)	3	-	3
COMM-	Tier 2 foundations (311, 351, 360)	3	-	3
Social Science	(from GE menu)	-	3	3
Minor or	Liberal Arts & Sciences elective	-	3	3
Minor or	Liberal Arts & Sciences elective	-	3	3
COMM	Tier 3 course	-	3	3
COMM	Tier 3 course	-	3	3
<b>Totals</b>		<b>15</b>	<b>15</b>	<b>30</b>

**JUNIOR YEAR**

Restricted Elective	(arrange with department advisor)	3	-	3
Minor or	Liberal Arts & Sciences elective	3	-	3
Minor or	Liberal Arts & Sciences elective	3	-	3
Free Elective		3	-	3
COMM	Tier 3 course	3	-	3
Minor or	Liberal Arts & Sciences elective	-	3	3
Minor or	Liberal Arts & Sciences elective	-	3	3
Free Elective		-	3	3
Free Elective		-	3	3
COMM-	Tier 3 course	-	3	3
<b>Totals</b>		<b>15</b>	<b>15</b>	<b>30</b>

**SENIOR YEAR**

<u>Free Elective</u>		3	-	3
<u>Free Elective</u>		3	-	3
COMM	Tier 3 course	3	-	3
COMM-490	Media Law	3	-	3
_____	Free Elective	-	3	3
_____	Free Elective	-	2	3
COMM	Tier 3 (1 hour elective)	-	1	1
COMM-497	Internship	-	3	3
COMM-499	Senior Seminar	-	3	3
<b>Totals</b>		<b>12</b>	<b>12</b>	<b>30</b>

**Total Program Semester Hours     120**

**NOTE: Courses with COMM prefixes require a passing grade of C or better.**

**Minor in Mass Communications**  
**(18 semester hours)**

**Description:**

- The minor in Mass Communication totals 18 semester hours.
- Nine hours are prescribed, with some freedom of choice
- The other nine hours are electives, to be determined in collaboration between the student and a mass communications faculty advisor

1. Required: COMM-201 Introduction to Mass Communications – 3 semester hours
2. Required: COMM-205 Introduction to Journalism
3. Choose one from this list of Professional Foundations classes – 3 semester hours:
  - COMM-311 Writing for Broadcast
  - COMM-321 Public Relations I
  - COMM-351 Print and On-Line Media Journalism
  - COMM-360 Writing for Filmmaking
4. Choose one from this list of media history classes – 3 semester hours:
  - COMM-301 History of African Americans in the Media
  - COMM-302 History and Appreciation of Film
  - COMM-303 History of Print and Online Technology
  - COMM-304 History of Broadcasting
5. Required: COMM-490 Media Law and Ethics Survey (senior standing required) – 3 semester hrs.
6. COMM elective – 3 semester hours – see note below about COMM electives

**Note: COMM electives for minors:**

Students pursuing a minor in Mass Communications should exercise care in selecting the elective. Many of our classes have prerequisites, and these requirements should be followed to avoid thrusting the student into unfamiliar ground.

It is possible to take three one-hour COMM electives to satisfy the three-hour elective requirement.

## DEPARTMENT OF MILITARY SCIENCE

The Reserved Officers' Training Corps (ROTC) Program consists of two parts: the basic course and the advanced course. The student normally pursues the basic course during the freshman and sophomore years, and the advanced course is normally pursued during the junior and senior years. Each advanced-course student is entitled to an allowance of \$400.00 per month up to 10 months per year. Advanced-course students are required to attend a six-week ROTC summer camp at the completion of their junior year. For this summer training, the student receives over \$700.00 plus travel pay to and from camp. Successful completion of the ROTC program qualifies the student for appointment as a second lieutenant in the Regular Army, Army Reserve, or Army National Guard.

### **Mission of the Department**

To commission the future officer leadership of the U.S. Army and motivate young people to be better Americans.

### **Objectives of the Department**

- to motivate selected students,
- to provide an understanding of the nature and operation of the United States Army,
- to develop the leadership and managerial potential of students,
- to encourage the development of mental and moral standards essential to military service, and
- to train students for commissioning in the United States Army, Army Reserves, or Army National Guard.

### **Programs (Minor) in the Department**

A Minor in Military Science is offered with a minimum of 15 hours of study.

## MILITARY SCIENCE Course Descriptions

### **MILS 101 INTRODUCTION TO LEADERSHIP - 2 semester hours**

A study of the organization of the Army and ROTC, with emphasis on the local program and career opportunities for the ROTC graduates. Significance of military courtesy, discipline, customs and traditions of the service.

### **MILS 102 INTRODUCTION TO LEADERSHIP - 2 semester hours**

A study of the military as a profession, the historical growth and development of the Army, stressing the magnitude of management implications. Development of leadership through practical exercises.

### **MILS 201 FOUNDATIONS OF LEADERSHIP - 2 semester hours**

A study of the functions, duties, and responsibilities of junior leaders, with continuing development of leadership through practical exercises.

### **MILS 202 FOUNDATIONS OF LEADERSHIP - 2 semester hours**

A study of basic military skills and operations of the basic military team, to include military geography, and the use of maps and aerial photographs.

### **MILS 301 TACTICAL LEADERSHIP - 3 semester hours**

A course stressing the development of the small unit leader skills, basic military skills, physical fitness and squad and platoon tactics.

**Prerequisites:** MILS 101 Army Customs and Traditions I;

MILS 102 Army Customs and Traditions II;

MILS 201 Basic Officers Skills I; MILS 202 Basic Officers Skills I

**MILS 302 APPLIED LEADERSHIP - 3 semester hours**

A course stressing the development of military skills with emphasis placed upon physical fitness, map reading and communications. Includes down-proofing exercises, field training exercises, and drill and ceremonies.

**Prerequisite: MILS 301 Advanced Leadership Development I**

**MILS 401 DEVELOPMENTAL LEADERSHIP - 3 semester hours**

A study of officer-enlisted relationship, staffs procedures, military writing and correspondence and military justice.

**Prerequisites: MILS 301 ADVANCED LEADERSHIP DEVELOPMENT I;  
MILS 302 ADVANCED LEADERSHIP DEVELOPMENT II**

**MILS 402 ADAPTIVE LEADERSHIP - 3 semester hours**

Pre-commissioning seminars, study of Officer Evaluation Reports (OER's), Non-Commissioned Officer Evaluation Reports (NCOER's) division organizational structure, personal affairs, and unit administration are part of this course.

**Prerequisites: MILS 301 Advanced Leadership Development I;  
MILS 302 Advanced Leadership Development II (1)  
Students with previous military experience may be given semester hour  
for these prerequisites.**

**MILS 403 LEADERSHIP LABORATORY – 3 semester hours**

Serves as learning laboratories for hands-on practical experiences. Training is supplementary and includes operations and tactics, land navigation, first aid, and general military subjects. The Army Physical Fitness Test (APFT) is administered to assess the state of physical development. (All cadets must participate in the 2- hour leadership lab.)

**MILS 404 MILITARY SCIENCE INDEPENDENT STUDY - 3 to 6 semester hours**

This internship is offered primarily to ROTC cadets to allow them to obtain practical work experience in their major under supervised conditions. The internship provides real-world application in Marketing, Political Science, Social Science, History, Physical Education, etc. majors with emphasis on Army or ROTC aspects.

**MILS 30011 BASIC TRAINING COURSE - 4 semester hours**

This 42-day leadership skills course at Fort Knox, KY, equates to Military Science 101, 102, 201, and 202. Student will be given the challenges of leadership, physical fitness, rappelling, down-proofing, basic tactical maneuvering, use of basic Army weapons, map reading, compass course and basic military drill and ceremonies.

**MILS 30311 LEADERSHIP DEVELOPMENT AND ASSESSMENT COURSE - 6 semester hours**

**\*\*Internship semester hours can be used during any semester for 3 to 6 semester hours.**

**SUMMARY  
DEPARTMENT OF MILITARY SCIENCE**

		<b>Semester Hours</b>			
		<b>1st</b>	<b>2nd</b>	<b>Summer</b>	<b>Total</b>
		<b>Sem.</b>	<b>Sem.</b>	<b>Sem.</b>	<b>Hours</b>
<b>FRESHMAN YEAR</b>					
MILS 101, 102	Basic Leadership	2	2	0	4
MILS 403, 404	Leadership Lab	0	0	0	0
<b>SOPHOMORE YEAR</b>					
MILS 201, 202	Basic Leadership*	2	2	0	4
MILS 403, 404	Leadership Lab	0	0	0	0
MILS 300	Basic Leadership Training*	0	0	0	0
*Basic Leadership Training can be substituted for the 100 and 200 level in certain situations.					
<b>JUNIOR YEAR</b>					
MILS 301, 302	Adv Leadership Dev	3	3	0	6
MILS 403, 404	Leadership Lab	0	0	0	0
MILS 403, 404	Advanced Leadership Training	0	0	6	6
<b>SENIOR YEAR</b>					
MILS 401, 402	Transition to Officership	3	3	0	6
MILS 403, 404	Leadership Lab	0	0	0	0
<b>Total Semester Hours</b>					<b>26</b>

**Requirements for Commissioning:**

26 hours Military Science

- 3 hours American Military History - HIST 304
- 3 hours Written/Oral Communication Skills - GEEN 310
- 3 hours Computer Literacy
- 3 hours Human Behavior

Contact the Professor of Military Science for additional information.

NOTE: ROTC students have an option of regular schedule class time for HIST 164-15 and HPER 165-11 or selecting ROTC class time (0600-0650). See catalog for course schedule

**Requirements for Commissioning:**

26 hours Military Science

- 3 hours American Military History - HIST 304
- 3 hours Written/Oral Communication Skills - GEEN 310
- 3 hours Computer Literacy
- 3 hours Human Behavior

Contact the Professor of Military Science for additional information.

NOTE: ROTC students have an option of regular schedule class time for HIST 164-15 and HPER 165-11 or selecting ROTC class time (0600-0650). See catalog for course schedule

## DEPARTMENT OF MUSIC

<b>Chairperson:</b>	George L. Tuckwiller, III (Interim) Davis Hall, Room 202 Phone: 524-5311
<b>Associate Professors:</b>	Ethel N. Haughton, Karen Savage, W. Weldon Hill
<b>Assistant Professors:</b>	Johnnella L. Edmonds, James Holden, Jr., Agnes Patterson-Wan George L. Tuckwiller III, Ho Yan
<b>Instructors:</b>	Kristen Allegood, James Gates, Jr.

The Music Unit is accredited by the National Association of Schools of Music and offers courses leading to the Bachelor of Music degrees in music education and music performance. In addition, we offer the Bachelor of Arts in Music and a Minor in Music. All curricula prepare students for advanced studies at the graduate level. The unit also offers a variety of courses for non-majors.

### **Mission of the Department**

The mission of the Music unit is to maintain both a level of academic excellence established by the university and a level of artistic achievement competitive with national standards. The Unit will promote diverse musical experiences that cross cultural boundaries, the use of technology, interaction with the community served by the university, and contact with the larger musical community. Through these experiences, the student will gain an awareness of his/her role in the university, local, national and global community, and use that awareness to develop personal goals for future efforts and achievements.

### **Objectives of the Department**

- To provide students with solo performance opportunities in order to develop their performance skills to a high level and to provide the necessary performance opportunities so that they can perform effectively as ensemble players as well as soloists.
- To offer curricula at various levels appropriate to the needs of the students according to national accreditation standards.
- To provide a variety of courses to meet the needs of non-music majors so that they may broaden their professional backgrounds and become more well-rounded individuals.
- To provide the University and community with professional services and expertise, thereby increasing their awareness and knowledge of the musical arts.
- To provide a strong background for majors interested in graduate work in the performance areas of music, music education or related fields.

### **Bachelor of Music and Bachelor of Arts Degree Programs: General Admission Requirements**

1. A student must successfully pass an audition in the selected performing medium to be admitted to any music degree program. (See audition requirements below.)
2. A placement examination in music theory will be given to all entering students in order to determine their level of ability. In the event that a student lacks sufficient background in the area of music theory, the student may be admitted on a probationary basis; however, it is expected that the student will make sufficient progress within a year's time, which will allow him/her to become a regular student and be admitted to the program, in good standing.
3. Each major course required in the degree program must be passed with a minimum grade of C. No major course may be repeated more than once. If a student repeats a course and is still unable to pass

with a minimum grade of C, he/she will be reassessed by the music faculty with regard to his/her potential to complete the program in a timely manner.

4. All students will be assessed at the end of the sophomore year.
5. All students are required to take a jury examination each semester of applied study.

### **Music Audition Requirements**

#### **Piano:**

1. Major scales, parallel motion, hands together Minor scales (at least one form), parallel motion, hands together Arpeggios Major and minor triads for 4 octaves
2. A Bach Invention or work of comparable difficulty.
3. A contrasting work from the Classic, Romantic, or 20th Century repertoire.

#### **Voice:**

1. A voice of attractive quality: agile and resonant with a range of two octaves.
2. The ability to reproduce tones when played or sung.
3. A repertoire that includes art songs and/or folk songs
4. A background that includes participation in secondary choral programs and community-based organizations.

#### **Instrumental:**

##### Woodwind, Brass and String

1. All major scales. Each scale is to be played through the most accepted and practical range of your instrument.
2. Chromatic scale. This scale is to be played throughout the practical range of your instrument. It should be slurred ascending and tongued descending or vice-versa.
3. One piece selected from the following:
  - a. Standard etude on your chosen instrument. (Rose for the clarinet, etc.)
  - b. Composition chosen from the Band and Orchestra Directors Manual of your home state or a piece with comparable music content.
  - c. A piece of band or orchestral literature that best demonstrates your technique, musicianship and interpretation.

#### **Percussion:**

1. Play the following rudiments:  
Long Roll Seven Stroke Roll Double Drag  
Flam Flam Accent # 1 Double Paradiddle  
Ruff Flam Paradiddle Single Ratamacue  
Five Stroke Roll Flamacue Triple Ratamacue  
Single Drag Lesson 25 Nine Stroke Roll  
(Must be played open and closed)
2. Mallet players are expected to play all scales which include two octaves.
3. Perform one piece from the following list:
  - a. Standard etude on your chosen instrument.
  - b. Composition chosen from the Band and Orchestra Directors Manual of your home state or a piece with comparable music content.
  - c. A piece of band or orchestral literature that best demonstrates your technique, musicianship and interpretation.

## **Areas of Specialization**

### **Bachelor of Music Degrees in Music with a Minor in Secondary Education PreK-12:**

1. Vocal/Choral
2. Instrumental (Brass, Woodwind, String, Percussion)

Twelve semester hours of applied music are required of all Music Education Majors in their major applied area and one additional hour for the senior recital. Beginning with the second semester of matriculation each student is required to perform at least once each semester on Student Seminar Recitals. All students are required to give a full senior recital. A jury examination is required six weeks prior to the recital.

### **Bachelor of Music Degrees in Performance**

The Bachelor of Music Degree in performance prepares a student for a career in performance. Instruction is available in the following applied areas: Voice, Piano, String, Woodwind, Brass and Percussion.

Twenty-one semester hours of applied music are required of all Performance Majors in their major applied area and three additional hours for the senior recital. Beginning with the second semester of matriculation each student is required to perform at least twice each semester on Student Seminar Recitals.

Proficiency requirements for graduation include, along with the core curriculum, the development of advanced performance skills which meet professional musical standards (e.g. the ability to execute music from memory, an outstanding sense of musicianship, and a substantial knowledge of the repertoire of his/ her instrument.)

All performance majors are required to give a full recital at the end of their junior and senior years as partial fulfillment for the performance degree. A jury examination is required and must be passed six weeks prior to each recital.

### **Bachelor of Music Degree with Emphasis in Sound Recording Technology**

The Bachelor of Music with Emphasis in Sound Recording Technology prepares students to work in the recording industry. Students take 12 hours of applied music in their major performing area. Students must take MATH 120 and MATH 121 in preparation for course work in sound recording technology. Starting with the second semester, sophomore year, students take courses in MUSI 292 Introduction to the Music Industry and MUSI 294 Introduction to the Recording Studio. Studies continue in the Junior year with MUSI 377 - History of Music Technology and MUSI 384 - Jazz History, MUSI 378 - Music Multimedia Applications and MUSI - 390 Audio Technology I. In the Senior year, students take MUSI 425 - Audio Technology II, MUSI 497 - Physics of Music, MUSI 426 - Music Industry Internship and MUSI 428 - Studio Seminar.

### **Bachelor of Arts Degree in Music**

The Bachelor of Arts Degree in Music allows students to elect a solid liberal arts baccalaureate degree with music as the chosen major. This would be recommended for students whose background in music prior to entering VSU has not prepared them for the rigors of a Bachelor of Music in Performance and who have no desire to teach public school music. Instruction is available in the following applied areas: Voice, Piano, Organ, String, Woodwind, Brass and Percussion. Twelve hours of applied music instruction are required, plus one hour for senior recital or thesis.

## **Minor in Music**

Students at VSU may obtain a Minor in Music by completing a total of 18 credit hours following the approved minor in music curriculum, which includes a balance of academic and applied music courses. A music minor must also be accepted by audition and demonstrate music reading ability to begin the minor curriculum. All students are required to take a jury examination each semester of applied study.

### **Performance Ensembles**

University Marching Band  
University Concert Choir  
University Gospel Chorale  
University Concert Band  
University Pep Band  
Chamber Ensembles

### **Student Organizations**

Kappa Kappa Psi National Honorary Band Fraternity  
Tau Beta Sigma National Honorary Band Sorority  
Sigma Alpha Iota International Music Fraternity for Women, Inc.  
Phi Mu Alpha Sinfonia Fraternity of America, Inc.  
National Association for Music Education

**MUSIC  
MUSIC (APPLIED)  
APPLIED PIANO  
Course Descriptions**

**MUSI 101, 102 APPLIED MAJOR PIANO – 2 semester hours**

Major Scales- 4 octaves, hands together in parallel motion

Minor Scales- 4 octaves, hands together in parallel motion, 3 forms

Arpeggios- Major and Minor for 4 octaves, hands together

Bach- Two Part Inventions

Selected late intermediate to early advanced compositions from Classic, Romantic and 20th Century periods.

**MUSI 103, 104 APPLIED MAJOR PIANO - 3 semester hours**

Major Scales- 4 octaves, hands together in parallel motion

Minor Scales- 4 octaves, hands together in parallel motion, 3 forms

Arpeggios- Major and Minor for 4 octaves, hands together

Bach- Two Part Inventions

Selected early Haydyn sonatas, Mozart sonatas, C.P.E. Bach, or Beethoven op. 49, 79.

Selected compositions from the Romantic and/or 20th Century periods.

**MUSI 201 & 202 APPLIED PIANO MAJOR - 2 semester hours**

Major Scales- 4 octaves, hands together in parallel motion

Minor Scales- 4 octaves, hands together in parallel motion, 3 forms

Arpeggios- Major and Minor for 4 octaves, hands together

Chromatic scale- 4 octaves, hands together in parallel motion

Selected compositions from the Baroque, Classical, Romantic and 20th Century periods.

**MUSI 203 & 204 APPLIED PIANO MAJOR - 3 semester hours**

Major Scales- 4 octaves, hands together in parallel motion

Minor Scales- 4 octaves, hands together in parallel motion, 3 forms

Arpeggios- Major, Minor, and Diminished 7ths for 4 octaves, hands together

Chromatic scale- 4 octaves, hands together in parallel motion

Selected compositions from the Baroque, Classical, Romantic and 20th Century periods.

Select repertoire and begin preparation of Junior Recital.

**MUSI 301 & 302 APPLIED PIANO MAJOR - 2 semester hours**

Major Scales- 4 octaves, hands together in parallel motion

Minor Scales- 4 octaves, hands together in parallel motion, 3 forms

Arpeggios- Major, Minor, and Diminished 7ths for 4 octaves, hands together

Chromatic scale- 4 octaves, hands together in parallel motion

Selected compositions from the Baroque, Classical, Romantic and 20th Century periods.

Select repertoire and begin preparation of Senior Recital.

**MUSI 303 & 304 APPLIED PIANO MAJOR - 3 semester hours**

Major Scales- 4 octaves, hands together in parallel motion

Minor Scales- 4 octaves, hands together in parallel motion, 3 for

Arpeggios- Major, Minor, and Diminished and Dominant 7ths for 4 octaves, hands together

Chromatic scale- 4 octaves, hands together in parallel motion

Selected compositions from the Baroque, Classical, Romantic and 20th Century periods.

Preparation and presentation of Junior Recital (required to pass MUSI 304).

**MUSI 401 & 402 APPLIED PIANO MAJOR - 2 semester hours**

Major Scales- 4 octaves, hands together in parallel motion  
Minor Scales- 4 octaves, hands together in parallel motion, 3 forms  
Arpeggios- Major, Minor, and Diminished 7ths for 4 octaves, hands together  
Chromatic scale- 4 octaves, hands together in parallel motion  
Selected compositions from the Baroque, Classical, Romantic and 20th Century periods.  
Preparation of Senior Recital.

**MUSI 403 & 404 APPLIED PIANO MAJOR - 3 semester hours**

Major Scales- 4 octaves, hands together in parallel motion  
Minor Scales- 4 octaves, hands together in parallel motion, 3 forms  
Arpeggios- Major, Minor, and Diminished 7ths for 4 octaves, hands together  
Chromatic scale- 4 octaves, hands together in parallel motion  
Selected compositions from the Baroque, Classical, Romantic and 20th Century periods, including work with a piano concerto.  
Preparation of Senior Recital.

**MUSI 424 SENIOR RECITAL - 3 semester hours**

Senior recital Jury heard by piano faculty 6 weeks before public performance date for approval.

**MUSI 499 SENIOR RECITAL - 1 semester hour**

Preparation and presentation of senior recital. Senior recital Jury will be heard by keyboard faculty six weeks before public performance date for approval.

**APPLIED BRASS**

**MUSI 121 & 122 APPLIED BRASS MAJOR - 2 semester hours**

Methods pertinent to development of good tone production, proper breath usage, embouchure information, articulation and musical interpretation in correlation with basic elements of musicianship. Selected technical and solo materials.

**MUSI 123 & 124 APPLIED BRASS MAJOR - 3 semester hours**

Methods pertinent to development of good tone production, proper breath usage, embouchure information, articulation and musical interpretation in correlation with basic elements of musicianship. Selected technical and solo materials.

**MUSI 221 & 222 APPLIED BRASS MAJOR - 2 semester hours**

Continuation of the study of basic musicianship, embouchure development, intervals, scales and study of arpeggios. Articulations, transposition and selected technical studies. Standard orchestral, solo and ensemble literature.

**MUSI 223 & 224 - 3 semester hours**

Continuation of the study of basic musicianship, embouchure development, intervals, scales and study of arpeggios. Articulations, transposition and selected technical studies. Standard orchestral, solo and ensemble literature.

**MUSI 321 & 322 APPLIED BRASS MAJOR - 2 semester hours**

Continuation of previous studies. More intensive study of stylistic interpretative, technique, transposition and standard solo, ensemble and orchestral literature for brasses from principal historical periods. Preparation for senior recital.

**MUSI 323 & 324 APPLIED BRASS MAJOR - 3 semester hours**

Continuation of previous studies. More intensive study of stylistic interpretative, technique, transposition and standard solo, ensemble and orchestral literature for brasses from principal historical periods. Junior recital is required in MUSI 324. A Jury will be heard six weeks before public performance date for approval.

**MUSI 421 & 422 APPLIED BRASS MAJOR - 2 semester hours**

Advanced technical study and repertoire development. Representative literature from principal historical periods.

**MUSI 423 APPLIED BRASS MAJOR - 3 semester hours**

Advanced technical study and repertoire development. Representative literature from principal historical periods. Preparation for senior recital.

**MUSI 424 SENIOR RECITAL - 3 semester hours**

Preparation and presentation of senior recital. Senior recital Jury will be heard by instrumental faculty six weeks before public performance date for approval.

**MUSI 499 SENIOR RECITAL - 1 semester hour**

Preparation and presentation of senior recital. Senior recital Jury will be heard by instrumental faculty six weeks before public performance date for approval.

**APPLIED PERCUSSION**

**MUSI 121 & 122 APPLIED PERCUSSION MAJOR - 2 semester hours**

Snare drum and timpani technique. Basic elements of musicianship applied to tonal production, rhythm, dynamics, sight-reading, tuning, pedaling, intonation, sticking, rudiments and control. Standard technical studies and solos.

**MUSI 123 & 124 APPLIED PERCUSSION MAJOR - 3 semester hours**

Snare drum and timpani technique. Basic elements of musicianship applied to tonal production, rhythm, dynamics, sight-reading, tuning, pedaling, intonation, sticking, rudiments and control. Standard technical studies and solos.

**MUSI 221 & 222 APPLIED PERCUSSION MAJOR - 2 semester hours**

Continuation of snare drum, timpani and basic musicianship studies. Study xylophone, marimba, bass drum, cymbals, traps and other mallet instruments. Selected technical, solo and ensemble literature.

**MUSI 223 & 224 APPLIED PERCUSSION MAJOR - 3 semester hours**

Continuation of snare drum, timpani and basic musicianship studies. Study xylophone, marimba, bass drum, cymbals, traps and other mallet instruments. Selected technical, solo and ensemble literature.

**MUSI 321 & 322 APPLIED PERCUSSION MAJOR - 2 semester hours**

Continuation and expansion of prior technical studies, solos and ensemble literature to include more advanced studies, multi-percussion techniques and new notational system. Preparation for senior recital.

**MUSI 323 & 324 APPLIED PERCUSSION MAJOR - 3 semester hours**

Continuation and expansion of prior technical studies, solos and ensemble literature to include more advanced studies, multi-percussion techniques and new notational system. Junior recital required in MUSI 324. A Jury will be heard six weeks prior to public performance date for approval.

**MUSI 421 & 422 APPLIED PERCUSSION MAJOR - 2 semester hours**

Continued development of technique and musicianship with application to expand repertoire, stylistic interpretation.

**MUSI 423 APPLIED PERCUSSION MAJOR - 3 semester hours**

Continued development of technique and musicianship with application to expand repertoire, stylistic interpretation. Preparation for senior recital.

**MUSI 424 SENIOR RECITAL - 3 semester hours**

Preparation and presentation of senior recital. Senior recital Jury will be heard six weeks prior to public performance date for approval.

**MUSI 499 SENIOR RECITAL - 1 semester hour**

Preparation and presentation of senior recital. Senior recital Jury will be heard six weeks prior to public performance date for approval.

**APPLIED STRINGS**

**MUSI 121 & 122 APPLIED STRINGS MAJOR - 2 semester hours**

Private instruction on developing fundamental technique of string instrument playing: Scales, arpeggios, sight-reading, technical studies, solo and ensemble literature.

**MUSI 123 & 124 APPLIED STRINGS MAJOR - 3 semester hours**

Private instruction on developing fundamental technique of string instrument playing: Scales, arpeggios, sight-reading, technical studies, solo and ensemble literature.

**MUSI 221 & 222 APPLIED STRINGS MAJOR - 2 semester hours**

Application of technique to performance; tone production, bow management, finger placement covering entire tonal range in all positions, technical studies, solo and ensemble literature.

**MUSI 223 & 224 APPLIED STRINGS MAJOR - 3 semester hours**

Application of technique to performance, tone production, bow management, finger placement covering entire tonal range in all positions, technical studies, solo and ensemble literature.

**MUSI 321 & 322 APPLIED STRINGS MAJOR - 2 semester hours**

Continuation of technical studies, expansion of repertoire and development of performance skills. Preparation for senior recital.

**MUSI 323 & 324 APPLIED STRINGS MAJOR - 3 semester hours**

Continuation of technical studies, expansion of repertoire and development of performance skills. Junior recital is required in MUSI 324. A Jury will be heard six weeks before public performance date for approval.

**MUSI 421 & 422 APPLIED STRINGS MAJOR - 2 semester hours**

Advanced Technical Study, continued development of repertoire, stylistic interpretation and performance skills.

**MUSI 423 APPLIED STRINGS MAJOR - 3 semester hours**

Advanced Technical Study, continued development of repertoire, stylistic interpretation and performance skills

**MUSI 424 SENIOR RECITAL - 3 semester hours**

Preparation and presentation of senior recital. Senior recital Jury will be heard by instrumental faculty six weeks before public performance date for approval.

**MUSI 499 SENIOR RECITAL - 1 semester hour**

Preparation and presentation of senior recital. Senior recital Jury will be heard by instrumental faculty six weeks before public performance date for approval.

## APPLIED WOODWINDS

### **MUSI 121 & 122 APPLIED WOODWINDS MAJOR - 2 semester hours**

Basic musicianship and technical studies including studies which include major, minor, and chromatic scales and arpeggios. Embouchure development, tone production. Selected technical and solo material.

### **MUSI 123 & 124 APPLIED WOODWINDS MAJOR - 3 semester hours**

Basic musicianship and technical studies including studies which include major, minor, and chromatic scales and arpeggios. Embouchure development, tone production. Selected technical and solo material.

### **MUSI 221 & 222 APPLIED WOODWINDS MAJOR - 2 semester hours**

Continuation of principles and techniques studied previous year including all scales, intervals, arpeggios, characteristic tone production, articulations, rhythms, sight-reading, standard technical, solo and ensemble material.

### **MUSI 223 & 224 APPLIED WOODWINDS MAJOR - 3 semester hours**

Continuation of principles and techniques studied previous year including all scales, intervals, arpeggios, characteristic tone production, articulations, rhythms, sight-reading, standard technical, solo and ensemble material.

### **MUSI 321 & 322 APPLIED WOODWINDS MAJOR - 2 semester hours**

More advanced technical study and repertoire development. Scales in thirds, fourths, and fifths, extended arpeggios, articulatory studies, range and dynamic development. Representative solo, ensemble and orchestral literature. Preparation for senior recital.

### **MUSI 323 & 324 APPLIED WOODWINDS MAJOR - 3 semester hours**

More advanced technical study and repertoire development. Scales in thirds, fourth, and fifths, extended arpeggios, articulatory studies, range and dynamic development. Representative solo ensemble and orchestral literature. Junior recital is required for MUSI 324. A Jury will be heard six weeks before public performance date for approval.

### **MUSI 421 & 422 APPLIED WOODWINDS MAJOR - 2 semester hours**

Intensive study of woodwind literature, advanced technique, stylistic interpretation and application of musical concepts to performance skills.

### **MUSI 423 APPLIED WOODWINDS MAJOR - 3 semester hours**

Intensive study of woodwind literature, advanced technique, stylistic interpretation and application of musical concepts to performance skills. Preparation for senior recital.

### **MUSI 424 SENIOR RECITAL - 3 semester hours**

Preparation and presentation of senior recital. Senior recital Jury will be heard by instrumental faculty six weeks before public performance date for approval.

### **MUSI 499 SENIOR RECITAL - 1 semester hour**

Preparation and presentation of senior recital. Senior recital Jury will be heard by instrumental faculty six weeks before public performance date for approval.

## **APPLIED VOICE**

### **MUSI 111 & 112 APPLIED VOICE MAJOR - 2 semester hours**

Basic fundamentals of singing: breathing, placement, agility. Several studies in Concone 50 lessons for the middle of the voice. Early Italian songs of the 16th and 17th centuries. Early English songs of John Dowland, Henry Purcell, etc.

### **MUSI 113 & 114 APPLIED VOICE MAJOR - 3 semester hours**

Basic fundamentals of singing: breathing, placement, agility. Several studies in Concone 50 lessons for the middle of the voice. Early Italian songs of the 16th and 17th centuries. Early English songs of John Dowland, Henry Purcell, etc.

### **MUSI 211 & 212 APPLIED VOICE MAJOR - 2 semester hours**

Continuation of basic fundamentals: breathing, placement, agility, diction. Scales (major and minor) Concone and Panofka. Addition of German Lieder of Schubert and Schumann. Early operatic arias in Italian.

### **MUSI 213 & 214 APPLIED VOICE MAJOR - 3 semester hours**

Continuation of basic fundamentals: breathing, placement, agility, diction. Scales (major and minor) Concone and Panofka. Addition of German lieder of Schubert and Schumann. Early operatic arias in Italian.

### **MUSI 311 & 312 APPLIED VOICE MAJOR - 2 semester hours**

American art songs of John Duke, Richard Hageman, Ernest Charles and others. Continuation of Schumann and Schubert songs. Study of Mozart arias. Preparation for senior recital.

### **MUSI 313 & 314 APPLIED VOICE MAJOR - 3 semester hours**

American art songs of John Duke, Richard Hageman, Ernest Charles and others. Continuation of Schumann and Schubert songs. Study of Mozart arias. In MUSI 314 a junior recital is required. A Jury will be heard six weeks before public performance date for approval.

### **MUSI 411 & 412 APPLIED VOICE MAJOR - 2 semester hours**

Continuation of basic voice study. Arias from both opera and oratorio.

### **MUSI 413 APPLIED VOICE MAJOR - 3 semester hours**

Continuation of basic voice study. Arias from both opera and oratorio. Preparation for senior recital.

### **MUSI 424 SENIOR RECITAL - 3 semester hours**

Preparation and presentation of senior recital. Senior recital Jury will be heard by voice faculty six weeks before public performance date for approval.

### **MUSI 499 SENIOR RECITAL - 1 semester hour**

Preparation and presentation of senior recital. Senior recital Jury will be heard by voice faculty six weeks before public performance date for approval.

## **APPLIED MINOR**

Music majors who wish to study a secondary applied area or non-music majors who wish to study an applied area may enroll in APPLIED MINOR courses with the permission of the instructor.

### **MUSI 141, 142 APPLIED MINOR - 1 semester hour**

These courses are for applied minor instruction in the instrumental or vocal area.

Prerequisite: Permission from the applied instructor

### **MUSI 241, 242 –APPLIED MINOR - 1 semester hour**

These courses continue applied minor instruction in the instrumental or vocal area.

## **PERFORMANCE ENSEMBLES**

The Department of Music offers varied performance organizations to all University students for one hour credit each semester. Placement in each organization is dependent upon the results of auditions given and criteria established by the direction of the respective performance ensembles.

Participation in at least one performance ensemble is required for music majors each semester of matriculation at the University. Non-Music majors may select performance ensembles in accordance with audition results.

### **Instrumental Ensembles**

MUSI 161,162,261,262,361,362,461,462- BAND (MARCHING (F), CONCERT(S)

MUSI 163,164,263,264,363,364,463,464- ORCHESTRA (F,S)

MUSI 165,166,265,266,365,366,465,466- STAGE BAND (F,S)

MUSI 167,168,267,268,367,368,467,468- CHAMBER ENSEMBLE (F,S)

### **Vocal Ensembles**

MUSI 171,172,271,272,371,372,471,472 CONCERT CHOIR (F,S)

MUSI 173,174,273,274 MADRIGAL SINGERS (F,S)

MUSI 175,176,275,276,375,376,475,476 GOSPEL CHORALE (F,S)

MUSI 177,178,277,278,377,378,477,478 CHAMBER ENSEMBLE (F,S)

## MUSIC COURSE DESCRIPTIONS

### **MUSI 105 CLASS PIANO - 1 semester hour [for Music Majors/Minors only]**

Provides music majors (non-keyboard majors) with necessary keyboard skills to function adequately as music professionals. MUSI 105 covers: keyboard basics, major and minor five-note scales, major and minor triads, bass note harmonization and transposition of five-finger melodies, pieces learned from score, and sight reading.

### **MUSI 106 CLASS PIANO - 1 semester hour**

Provides music majors (non-keyboard majors) with necessary keyboard skills to function adequately as music professionals. MUSI 106 covers: major and minor scales, hands separately; primary chord progressions; chordal harmonization and transposition of five-finger melodies; pieces learned from score; and sight reading.

**Prerequisite: MUSI105**

### **MUSI 115 VOICE CLASS - 1 semester hour**

This course is designed for the non-voice major, i.e., keyboard, band and orchestral instrumental majors. Problems in voice production, breathing, placement, diction, etc., will be discussed. Repertoire for both the college and the projected public school student will be expected.

### **MUSI 116 VOICE CLASS - 1 semester hour**

This course is designed for the non-voice major, i.e., keyboard, band and orchestral instrumental majors, and is a continuation of MUSI 115 VOICE CLASS.

**Prerequisite: MUSI 115**

### **MUSI 154 MUSIC FUNDAMENTALS - 3 semester hours**

A study of the basic elements of music needed by Elementary and Special Education teachers. Specifically taught will be key signatures, circle of fifths, all major and minor scales, clefs, keys, modes, enharmonics, intervals, triads and an introduction to four-part harmony.

### **MUSI 155 –TECHNOLOGY FOR MUSICIANS – 2 semester hours**

A course designed to provide music majors with the necessary skills in technology to function adequately as music professionals. Aspects covered will include, but not be limited to, music writing computer programs and electronic resources for music theory and research. This course is for Music Majors only.

### **MUSI 181 BASIC THEORY - 3 semester hours [for Music Majors/Minors only]**

Specifically taught will be triad inversions, dominant seventh chords, diminished seventh chords, non-harmonic tones, cadences, diatonic modulations, and four-part writing.

### **MUSI 182 CHROMATIC HARMONY [for Music Majors/Minors only] - 3 semester hours**

Specifically taught will be four-part writing, secondary seventh chords and their inversions, augmented 6th, neapolitan and borrowed chords. Also taught are dominant ninths, elevenths, thirteenth, altered dominants, chromatic mediant, and chromatic modulations.

**Prerequisite: MUSI 181**

### **MUSI 183 SIGHT SINGING AND EAR TRAINING - 1 semester hour**

**[for Music Majors/Minors only]**

Development of basic skills in music reading and aural perception. Laboratory experience required.

### **MUSI 184 SIGHT SINGING AND EAR TRAINING [for Music Majors/Minors only]**

**1 semester hour**

Continued development in music reading and aural skills. Laboratory experience required.

**Prerequisite: MUSI 183**

**MUSI 191 STRING CLASS - 1 semester hour**

Special study of violin, viola, cello, double bass with an emphasis on developing the skills necessary for teaching the instruments on the elementary and intermediate levels.

**MUSI 192 PERCUSSION CLASS - 1 semester hour**

Course designed to develop, through practical experiences, the skills necessary to teach instruments of the percussion family on the elementary and intermediate levels.

**MUSI 199 MUSIC APPRECIATION - 3 semester hours**

A study of music designed to provide the general student with knowledge and understanding of the history, structure and style of various types of music literature.

**MUSI 200 BLACKS IN AMERICAN MUSIC - 3 semester hours**

A humanities course concerned with the full range of Black contributions to music from African heritage to the present day. Course content will be presented through lectures, recordings, and class discussions.

**Prerequisite: ENGL 211**

**MUSI 205 CLASS PIANO - 1 semester hour**

Provides music majors (non-keyboard majors) with necessary keyboard skills to function adequately as music professionals. MUSI 205 covers: major and minor scales, hands together; primary and secondary score, and sight reading. The course culminates with the Class Piano Proficiency Examination, passage of which is required prior to advancing to MUSI 206.

**Prerequisite: MUSI 106**

**MUSI 206 CLASS PIANO - 1 semester hour**

The course expands on the skills required for the Class Piano Proficiency Examination, especially in the area of harmonization, transposition, and reading. Also included are independent repertoire preparation and public performance experience.

**Prerequisite: MUSI 205**

**MUSI 215 VOICE CLASS – 1 semester hour**

This course is designed for the non-voice major, i.e., keyboard, band and orchestral instrumental majors. The vocal mechanism and performance practices, including expression and interpretation through vocal literature (to include French and German songs) will be discussed.

**Prerequisite: MUSI 116**

**MUSI 216 VOICE CLASS – 1 semester hour**

This course is designed for the non-voice major, i.e., keyboard, band and orchestral instrumental majors and is a continuation of MUSI 215 VOICE CLASS.

**Prerequisite: MUSI 215**

**MUSI 253 INSTRUMENTAL SURVEY - 1 semester hour**

A course designed to acquaint majors with the historical development, nomenclature, methods of tone production, transpositions, and basic instructional methods of the brass, percussion, string, and woodwind instruments.

**MUSI 258 VOCAL DICTION - 1 semester hour**

A study of the International Phonetic Alphabet (IPA) and its application to singing in English and Italian. (Education majors only).

**MUSI 259 VOCAL DICTION - 1 semester hour**

A study of the International Phonetic Alphabet (IPA) and its application to singing in French and German. (Education majors only).

**Prerequisite: MUSI 258**

**MUSI 281 FORM AND ANALYSIS - 3 semester hours**

The basic skills involved in structural analysis of tonal music, with emphasis placed on the analysis of phrase structure and the ability to locate and identify the important structural principles and divisions within binary, ternary, sonata, rondo, variation, and imitative forms.

**Prerequisite: MUSI 182**

**MUSI 282 TWENTIETH CENTURY THEORY - 3 semester hours**

Designed to expose students to the basic concepts and analytical tools necessary for an understanding of twentieth-century art music, including units introducing motives and set theory, non-diatonic scales, triadic extensions, modality and pitch class centers, serialism, and new approaches to rhythm, meter, orchestration, tone color and texture.

**Prerequisite: MUSI 182**

**MUSI 283 SIGHT SINGING AND EAR TRAINING - 1 semester hour**

Continued development in music reading and aural skills. Laboratory experience required.

**Prerequisite: MUSI 184**

**MUSI 285 MUSIC HISTORY - 3 semester hours**

A survey of the development of Western Music from Antiquity through the Baroque Period.

**Prerequisite: MUSI 181**

**MUSI 286 MUSIC HISTORY - 3 semester hours**

A survey of Western Music from the Pre-Classical era through the Romantic era

**Prerequisites: MUSI 182 and MUSI 285**

**MUSI 287 ELEMENTARY CONDUCTING - 2 semester hours**

The basic principles of conducting vocal/instrumental groups. Laboratory experience with vocal and instrumental groups is required.

**Prerequisite: MUSI 281 and MUSI 282**

**MUSI 288 VOCAL DICTION - 2 semester hours**

A study of the International Phonetic Alphabet (IPA) and its application to singing in English and Italian. (Performance majors only.)

**MUSI 289 VOCAL DICTION - 2 semester hours**

A study of the International Phonetic Alphabet (IPA) and its application to singing in French and German. (Performance majors only.)

**Prerequisite: MUSI 288**

**MUSI 290 – MUSIC HISTORY – 3 semester hours**

A survey of Western Music beginning with the 20th Century and continuing to contemporary times

**Prerequisite: MUSI 286**

**MUSI 292: INTRODUCTION TO THE MUSIC INDUSTRY – 2 semester hours**

An overview of the Music Industry. Areas of study will include basics of music publishing, copyright, unions, guilds, performance rights, music licensing, recording production and distribution, concert promotion, and artist management. For **Music Majors Only**.

**MUSI 294: INTRODUCTION TO THE RECORDING STUDIO – 2 semester hours**

An overview of Modern Recording Production. Topics will include an introduction to digital audio technology, sequencing, the use of MIDI, the application of computers and MIDI technology, using Music Writing Software, and the basics of Sampling and Synthesis. Hands-on experience required. For Music Majors Only.

**MUSI 295 WOODWIND CLASS - 1 semester hour**

Designed to develop, through practical experience, the skills necessary to play instruments of the woodwind family on the elementary and intermediate levels.

**MUSI 296 BRASSWIND CLASS - 1 semester hour**

Designed to develop, through practical experience, the skills necessary to play the instruments of the brass family on the elementary and intermediate levels.

**MUSI 354 MARCHING BAND TECHNIQUES - 2 semester hours**

A comprehensive study of marching band show design, drill, writing, charting techniques, marching band teaching techniques, rehearsal organization, selecting and purchase of equipment and materials, proper administrative organization, band travel planning and public relations.

**MUSI 373, 374 OPERA WORKSHOP - 1 semester hour**

Designed to provide experiences in the performance of opera and opera scenes.

**MUSI 377: HISTORY OF MUSIC TECHNOLOGY - 2 semester hours**

An overview of history of electronic music and music technology. Topics will include synthesizers, oscillators, envelope generators, basics of electronic sound production, waveform theory, modulation theory, basics of acoustics, and more advanced topics in electronic music synthesis. Hands-on experience required. Prerequisites: MUSI 181, MUSI 182, MUSI 183, MUSI 184, MUSI 292, and MUSI 294.

**MUSI 378: MUSIC MULTIMEDIA APPLICATIONS – 2 semester hours**

An overview of multimedia projects for various digital media, including the Web, video presentations, application of MP3 technology, and the integration of other audio technology into various other digital media. Hands-on experience required. **Prerequisite: MUSI 377**

**MUSI 381 COUNTERPOINT - 3 semester hours**

A course in counterpoint organized around the invention and fugue. A thorough analysis of the WELL TEMPERED CLAVIER, by J. S. Bach, is included.

**Prerequisite: MUSI 281**

**MUSI 385 ART SONG - 2 semester hours**

A survey of the art song in historical perspective. A detailed analysis and study of selected songs are included in order to develop a sense of style and application for the art of singing.

**MUSI 386 MUSIC COMPOSITION - 2 semester hours**

This course is designed to develop the compositional skills of the student through practical experience, class discussion, research, composition projects, and private assistance. At the end of the course, the student will be able to write a composition for a medium selected by the instructor and complete all of the individual composition projects required for the course.

**Prerequisites: MUSI 184, 281, and 282**

**MUSI 388 ADVANCED INSTRUMENTAL CONDUCTING - 2 semester hours**

Conducting techniques with particular attention to interpretation, techniques of instrumental conducting, tempo, articulation, nuance, seating of instrumental groups, and the testing and auditioning of instrumentalists.

**Prerequisite: MUSI 287**

**MUSI 389 ADVANCED CHORAL CONDUCTING - 2 semester hours**

Conducting techniques with particular attention to interpretation, techniques of choral conducting, tempo, diction, nuance, seating of choral groups, and the testing and auditioning of vocalists.

**Prerequisite: MUSI 287**

**MUSI 390: AUDIO TECHNOLOGY I – 3 semester hours**

An overview of recording fundamentals. Topics will include Dolby and signal levels, signal flow, microphone design and technique, tape recorder operation, and the basics of processors, speaker design, and internal electronic circuitry. Hands-on experience required.

**Prerequisite:** MUSI 377.

**MUSI 393 MUSIC FOR THE ELEMENTARY SPECIALIST - 3 semester hours**

A functional laboratory for learning how to prepare and present meaningful musical experiences in elementary classroom settings. The present content of the course is based upon what elementary music teachers/specialists are expected to accomplish in both student teaching and subsequent professional teaching in the schools.

**MUSI 396 TWENTIETH CENTURY MUSIC - 2 semester hours**

An overview of art music in the 20th Century, concentrating on the ways in which the different styles have developed and interacted throughout the century, the knowledge of major composers and their most prominent style characteristics.

**MUSI 397 MUSIC IN THE ROMANTIC PERIOD - 2 semester hours**

A study of the music literature of the Romantic Period in historical perspective. Emphasis will be placed on major composers, genres, forms, styles, and performance mediums.

**Prerequisite:** MUSI 290

**MUSI 398 MUSIC IN THE CLASSICAL PERIOD - 2 semester hours**

A study of the music literature of the Classical Period in historical perspective. Emphasis will be placed on major composers, genres, forms, styles, and performance mediums.

**Prerequisite:** MUSI 290

**MUSI 399 MUSIC IN THE BAROQUE PERIOD - 2 semester hours**

A study of the music literature of the Baroque Period in historical perspective. Emphasis will be placed on major composers, genres, forms, styles, and performance mediums.

**Prerequisite:** MUSI 290

**MUSI 425: AUDIO TECHNOLOGY II – 3 semester hours**

An advanced examination of the digital audio production and its application in today's recording industry. Topics will include recording and reproduction systems, CD and DVD applications, film and video scoring, magnetic tape, optical disk, etc. Hands-on experience required.

**Prerequisite:** MUSI 390

**MUSI 426: MUSIC INDUSTRY INTERNSHIP – 6 semester hours**

An internship in the music industry field.

**Prerequisite:** MUSI 425.

**MUSI 428: STUDIO SEMINAR – 3 semester hours**

An advanced studio practicum in which students will successfully complete recording projects and understand aspects of the professional recording studio, including management and administration, studio design and installation, audio production for visual media, and other advanced audio production techniques.

**Prerequisite:** MUSI 425.

**MUSI 473, 474 OPERA WORKSHOP - 1 semester hour**

Designed to provide experiences in the performance of opera and opera scenes.

**MUSI 481 DRAMATIC MUSIC - 2 semester hours**

A study of opera and oratorio in historical perspective.

**MUSI 482 INSTRUMENTAL PEDAGOGY - 2 semester hours**

Designed to explore current and historical pedagogical approaches to the teaching of band and orchestral instruments.

**MUSI 483 VOCAL PEDAGOGY - 2 semester hours**

Designed to explore the current and historical pedagogical approaches to the teaching of vocal music.

**MUSI 484 PIANO PEDAGOGY - 2 semester hours**

An introduction to the art of teaching the piano, including surveys of individual and group beginning methods, introduction to intermediate repertoire, history of piano technique, and piano teaching as a business. Required for Piano Performance Majors. Recommended for non-majors who wish to teach piano.

**MUSI 485 ORCHESTRATION - 2 semester hours**

Arranging for small ensembles, full orchestra, and band.

**MUSI 486 PIANO LITERATURE - 2 semester hours**

A survey of the solo and concerto literature for the piano beginning with its antecedents in the harpsichord repertoire and extending to the major trends and works of the twentieth century.

**MUSI 487 ART OF ACCOMPANIMENT - 2 semester hours**

An introduction to the art of the collaborative pianist through reading, listening, and playing.

**MUSI 489 SENIOR THESIS - 1 semester hour**

The concentration of this non-performance senior research project may be in Composition, Music Theory/Analysis, or Music History/Musicology. The thesis topic selection approval and its evaluation will be by a committee of three music faculty. The student and the committee will determine the scope and manner of presentation for the research project.

**MUSI 491 MUSIC FOR THE INSTRUMENTAL SPECIALIST - 3 semester hours**

Techniques of organizing and developing instrumental groups; pedagogical practices, procedures, methods and materials for developing bands, orchestras, ensembles, and solo performances.

**MUSI 493 MUSIC FOR THE SECONDARY SCHOOL SPECIALIST - 3 semester hours**

Philosophy, basic concepts and principles of music teaching and learning in middle and high school. Emphasis on content, techniques and materials for effective program building and implementation.

**MUSI 495 VOCAL LITERATURE - 2 semester hours**

The introduction of representative solo and ensemble literature for voice.

**MUSI 496 INSTRUMENTAL LITERATURE - 2 semester hours**

A course designed for the instrumental music major which introduces representative literature for the instruments of the orchestra and band.

**MUSI 497 PHYSICS OF MUSIC – 2 semester hours**

Primarily for music majors: the relation of the sounds of music to basic physical laws and concepts. The nature and transmission of sound, hearing, temperament, acoustics of rooms and musical instruments.

## Minor in Music

### Keyboard Performers

MUSI 115	Voice Class	1
MUSI 116	Voice Class	1
MUSI 181	Basic Theory	3
MUSI 182	Chromatic Harmony	3
MUSI 183	Sight singing/Ear-training	1
MUSI 184	Sight singing/Ear-training	1
MUSI 199	Music Appreciation	3
MUSI 141	Applied Minor	1
MUSI 142	Applied Minor	1
MUSI 241	Applied Minor	1
MUSI 242	Applied Minor	1
MUSI_	Ensemble	1
	Total Credit Hours	<b>18</b>

### For Voice, Band/Orchestral performers

MUSI105	Class Piano	1
MUSI106	Class Piano	1
MUSI181	Basic Theory	3
MUSI182	Chromatic Harmony	3
MUSI183	Sight singing/Ear-training	1
MUSI184	Sight singing/Ear-training	1
MUSI199	Music Appreciation	3
MUSI141	Applied Minor	1
MUSI142	Applied Minor	1
MUSI241	Applied Minor	1
MUSI242	Applied Minor	1
MUSI_	Ensemble	1
	Total Credit Hours	<b>18</b>

Students may choose the ensemble from a variety of vocal or instrumental ensembles in the department.

**DEPARTMENT OF MUSIC**

**MUSIC MAJOR  
Bachelor of Arts Degree in Music**

		Semester Hours		
		1st Sem	2nd Sem	Total Hours
<b>FRESHMAN YEAR</b>				
ENGL 110, 111	Composition I, II	3	3	6
MATH 112, 113	Basic Mathematics	3	3	6
MUSI 105, 106	Class Piano	1	1	2
MUSI_	Applied Major	2	2	4
MUSI 181	Basic Theory	3	-	3
MUSI 183, 184	Sight singing/Ear Training	1	1	2
MUSI_	Ensemble	1	1	2
MUSI 182	Chromatic Harmony	-	3	3
MUSI 155	Technology for Musicians	-	2	2
MUSI 117, 118	Seminar	0	0	0
	<b>Totals</b>	<b>14</b>	<b>16</b>	<b>30</b>
<b>SOPHOMORE YEAR</b>				
HIST 114 or HIST 115	World Civilization	3	-	3
MUSI 205	Class Piano	1	-	1
MUSI 281, 282	Form & Analysis/20th Century Theory	3	3	6
MUSI_	Applied Major	2	2	4
MUSI_	Ensemble	1	1	2
	Foreign Language Electives	3	3	6
GE_	Global Studies	3	-	3
	Science & Lab-Menu	-	4	4
ART 199	Art Appreciation	-	3	3
MUSI 217, 218	Seminar	0	0	0
	<b>Totals</b>	<b>16</b>	<b>16</b>	<b>32</b>
<b>JUNIOR YEAR</b>				
ENGL_	Literature-Menu	3	-	3
MUSI 285, 286	Music History	3	3	6
HPER	Wellness/Health- Menu	2	-	2
	Social Science- Menu	3	-	3
MUSI_	Applied Major	2	2	4
PHIL 140	Philosophy	3	-	3
SPEE 214	Introduction to Public Speaking	-	3	3
	Humanities- Menu	-	3	3
MUSI_	Ensemble or Music elect.	1	1	2
MUSI 287	Elementary Conducting	-	2	2
MUSI 317, 318	Seminar	0	0	0
	<b>Totals</b>	<b>17</b>	<b>14</b>	<b>31</b>

<b>SENIOR YEAR</b>				
MUSI 290	Music History	3	-	3
	Non Music Elective	6	6	12
MUSI_	Applied Major	2	-	2
MUSI_	Ensemble or Music elect	1	-	1
MUSI_	Senior Recital or Senior Thesis	-	1	1
GEMU 310	Advanced Communicative Skills	3	-	3
MUSI 200	Blacks in American Music	-	3	6
MUSI_	Music Elective	-	2	2
MUSI417, 418	Seminar	0	0	0
	<b>Totals</b>	<b>15</b>	<b>12</b>	<b>27</b>

**Total Program Semester Hours    120**

**DEPARTMENT OF MUSIC**

**MUSIC MAJOR**

**Bachelor of Music Degree in Keyboard Performance**

		Semester Hours		
		1st Sem	2nd Sem	Total Hours
<b>FRESHMAN YEAR</b>				
ENGL 110, 111	Composition I, II	3	3	6
MATH 112, 113	Basic Mathematics	3	3	6
MUSI 103, 104	Applied Major Piano	3	3	6
MUSI 115, 116	Voice Class	1	1	2
MUSI 181	Basic Theory	3	-	3
MUSI 183, 184	Sight/Single/Ear Training	1	1	2
MUSI_	Ensemble	1	1	2
MUSI 182	Chromatic Harmony	-	3	3
MUSI 155	Technology for Musicians	-	2	2
MUSI 117, 118	Seminar	0	0	0
	<b>Totals</b>	<b>15</b>	<b>17</b>	<b>32</b>
<b>SOPHOMORE YEAR</b>				
___	Science & Lab- Menu	4	-	4
MUSI 203,204	Applied Piano Major	3	3	6
MUSI 258, 259	Vocal Diction	1	1	2
MUSI 281	Form & Analysis	3	-	3
MUSI 283	Sight singing/Ear Training	1	-	1
MUSI 285, 286	Music History	3	3	6
MUSI_	Ensemble	1	1	2
HPER	Wellness/Health- Menu	-	2	2
MUSI 282	20th Century Theory	-	3	3
HIST 114 or 115	World Civilization	-	3	3
MUSI217, 218	Seminar	0	0	0
	<b>Totals</b>	<b>16</b>	<b>16</b>	<b>32</b>
<b>JUNIOR YEAR</b>				
MUSI 290	Music History	3	-	3
MUSI 303, 304	Applied Piano Major	3	3	6
MUSI 381	Counterpoint	3	-	3
MUSI 486	Piano Literature	2	-	2
	Global Studies- Menu	3	-	3
MUSI_	Ensemble	1	1	2
	Social Science-Menu	-	3	3
MUSI 487	Art of Accompaniment	-	2	2
MUSI 287	Elementary Conducting	-	2	2
MUSI_	Music History Elective	-	2	2
MUSI_	Music Elective(s)	-	2	2
MUSI 317, 318	Seminar	0	0	0
	<b>Totals</b>	<b>15</b>	<b>15</b>	<b>30</b>

<b>SENIOR YEAR</b>				
	Humanities-Menu	3	-	3
MUSI_	Music Elective(s)	2	-	2
MUSI 403	Applied Piano Major	3	-	2
MUSI 484	Piano Pedagogy	2	-	2
MUSI_	Ensemble	1	1	2
	Elective(s)	3	-	3
ENGL_	Literature-Menu	-	3	3
MUSI_	Music Elective(s)	-	3	3
MUSI 424	Senior Recital	-	3	3
MUSI_	Ensemble Elective(s) or Minor Applied	-	2	2
MUSI 417, 418	Seminar	0	0	0
	<b>Totals</b>	<b>14</b>	<b>12</b>	<b>26</b>

**Total Program Semester Hours    120**

**DEPARTMENT OF MUSIC**

**MUSIC MAJOR**

**Bachelor of Music Degree in Instrumental Performance**

		<b>Semester Hours</b>		
		<b>1st Sem</b>	<b>2nd Sem</b>	<b>Total Hours</b>
<b>FRESHMAN YEAR</b>				
ENGL 110, 111	Composition I & II	3	3	6
MATH 112, 113	Basic Mathematics	3	3	6
MUSI 105, 106	Class Piano	1	1	2
MUSI 123,124	Applied Major Instrument	3	3	6
MUSI 181	Basic Theory	3	-	3
MUSI 183, 184	Sight singing/Ear Training	1	1	2
MUSI_	Ensemble	1	1	2
MUSI 182	Chromatic Harmony	-	3	3
MUSI 155	Technology for Musicians	-	2	2
MUSI 117, 118	Seminar	0	0	0
	<b>Totals</b>	<b>15</b>	<b>17</b>	<b>32</b>
<b>SOPHOMORE YEAR</b>				
	Science & Lab- Menu	4	-	4
MUSI 205, 206	Class Piano	1	2	2
MUSI 223, 224	Applied Major Instrument	3	3	6
MUSI 281, 282	Form & Analysis/20th Century Theory	3	3	6
MUSI 283	Sight singing/Ear Training	1	-	1
MUSI 285, 286	Music History	3	3	3
MUSI_	Ensemble	1	1	2
HIST 114 or 115	World Civilization	-	3	3
HPER	Wellness/Health	-	2	2
MUSI 217, 218	Seminar	0	0	0
	<b>Totals</b>	<b>16</b>	<b>16</b>	<b>32</b>

<b>JUNIOR YEAR</b>				
MUSI 290	Music History	3	-	3
MUSI 323, 324	Applied Major Instrument	3	3	6
MUSI 381	Counterpoint	3	-	3
ENGL _	Literature- Menu	3	-	3
MUSI_	Ensemble	1	1	1
MUSI_	Ensemble Electives (s) or Minor Applied	2	1	3
MUSI 287	Elementary Conducting	-	2	2
	Humanities- Menu	-	3	3
MUSI_	Global Studies- Menu	-	3	3
MUSI 317, 318	Seminar	0	0	0
	<b>Totals</b>	<b>15</b>	<b>13</b>	<b>28</b>
<b>SENIOR YEAR</b>				
MUSI_	Music History Elective	2	-	2
MUSI_	Music Elective(s)	2	-	2
MUSI 423	Applied Major Instrument	3	-	3
MUSI 496	Instrumental Literature	2	-	2
MUSI_	Ensemble	1	1	2
	Elective(s)	3	3	6
MUSI_	Ensemble Elective or Minor Applied	1	-	1
_____	Social Science-Menu	-	3	3
MUSI 424	Senior Recital	-	3	3
MUSI 482	Instrumental Pedagogy	-	2	2
MUSI_	Music Elective(s)	-	2	2
MUSI 417, 418	Seminar	0	0	0
	<b>Totals</b>	<b>14</b>	<b>14</b>	<b>28</b>

**Total Program Semester Hours    120**

**DEPARTMENT OF MUSIC**

**MUSIC MAJOR**

**Bachelor of Music Degree in Vocal/Choral Music  
With a Minor in Secondary Education preK-12**

		Semester Hours		
		1st sem	2nd Sem	Total Hours
<b>FRESHMAN YEAR</b>				
ENGL 110, 111	Composition I, II	3	3	6
MATH 112, 113	Basic Mathematics	3	3	6
MUSI 155	Technology for Musicians	2	-	2
MUSI 105, 106	Class Piano	1	1	2
MUSI_	Applied Major	2	2	4
MUSI 181	Basic Theory	3	-	3
MUSI 183, 184	Sight singing/Ear Training	1	1	2
MUSI 171	Ensemble Choir	1	1	2
MUSI 182	Chromatic Harmony	-	3	3
IDST 200	Digital Media	-	3	3
MUSI 117, 118	Seminar	0	0	0
		<b>16</b>	<b>17</b>	<b>33</b>
<b>SOPHOMORE YEAR</b>				
MUSI_	Applied Major	2	2	4
MUSI 205, 206	Class Piano	1	1	2
MUSI 191	Strings	1	-	1
MUSI 258, 259	Vocal Diction	1	1	2
MUSI 281	Form and Analysis	3	-	3
MUSI 285, 286	Music History	3	3	6
MUSI 271, 272	Ensemble Choir	1	1	2
EDUC 201, 202	Introduction to Teaching	2	2	4
MUSI 192	Percussion	-	1	1
MUSI 282	20th Century Theory	-	3	3
PSYC 212	Human Growth	-	3	3
MUSI 217, 218	Seminar	0	0	0
		<b>14</b>	<b>17</b>	<b>31</b>

<b>JUNIOR YEAR</b>				
MUSI 290	Music History	3	-	3
MUSI_	Applied Major	2	2	4
MUSI 371, 372	Ensemble Choir	1	1	2
MUSI 295	Woodwinds	1	-	1
EDUC 315	Data Driven Instr.	3	-	3
HPER	Wellness/Health- Menu	2	-	2
HIST 114 or HIST 115	World Civilization	3	-	3
---	Science & Lab- Menu	-	4	4
MUSI 393	Mus. For the Elem. Spec.	-	3	3
MUSI 287	Elementary Conducting	-	2	2
MUSI 296	Brass winds	-	1	1
SPED 403	Clrm. Mgt. in ED sets.	-	3	3
MUSI 317, 318	Seminar	0	0	0
		<b>15</b>	<b>16</b>	<b>31</b>
<b>SENIOR YEAR</b>				
ENGL_	Literature- Menu	3	-	3
MUSI 499	Senior Recital	1	-	1
MUSI 471	Ensemble Choir	1	-	1
MUSI 493	Mus. for Sec. School Spec.	3	-	3
MUSI 389	Adv. Choral Conducting	2	-	2
EDUC 427	Reading in Sub. Area	3	-	3
EDUC 424	Cr. Issues in Ed	2	-	2
EDUC 401	Student Teach. Seminar	-	3	3
EDUC 402	Student Teaching	-	9	9
MUSI 478	Student Teaching in Music	-	3	3
MUSI 417	Seminar	0	-	0
		<b>15</b>	<b>15</b>	<b>30</b>

**Total Program Semester Hours 125**

**DEPARTMENT OF MUSIC**

**MUSIC MAJOR**

**Bachelor of Music Degree in Vocal Performance**

		<b>Semester Hours</b>		
		<b>1st Sem</b>	<b>2nd Sem</b>	<b>Total Hours</b>
<b>FRESHMAN YEAR</b>				
ENGL 110, 111	Composition I, II	3	3	6
MATH 112, 113	Basic Mathematics	3	3	6
MUSI 155	Technology for Musicians	-	2	2
MUSI 105, 106	Class Piano	1	1	2
MUSI 113, 114	Applied Voice Major	3	3	6
MUSI 181	Basic Theory	3	-	3
MUSI 183, 184	Sight singing/Ear Training	1	1	2
MUSI 171, 172	Ensemble Choir	1	1	2
MUSI 182	Chromatic Harmony	-	3	3
HPER_	Wellness/Health/Menu	2	-	2
MUSI 117, 118	Seminar	0	0	0
<b>Totals</b>		<b>17</b>	<b>17</b>	<b>34</b>
<b>SOPHOMORE YEAR</b>				
MUSI 213,214	Applied Voice Major	3	3	6
MUSI 205, 206	Class Piano	1	1	2
MUSI 281,282	Form & Analysis/20th Century Theory	3	3	6
MUSI 285, 286	Music History	3	3	6
MUSI 283	Sight singing/Ear Training	1	-	1
MUSI 271, 272	Ensemble Choir	1	1	2
MUSI 288, 289	Vocal Diction	2	2	4
	French/German Language Elective	3	3	6
MUSI 217, 218	Seminar	0	0	0
<b>Totals</b>		<b>17</b>	<b>16</b>	<b>33</b>

<b>JUNIOR YEAR</b>				
MUSI 290	Music History	3	-	3
MUSI 313, 314	Applied Voice Major	3	3	6
MUSI 381	Counterpoint	3	-	3
MUSI 371, 372	Ensemble Choir	1	1	2
	Global Studies- Menu	3	-	3
MUSI 373, 374	Opera Workshop	1	1	2
	Science- and Lab	-	4	4
MUSI 385	Art Song	2	-	2
MUSI 287	Elementary Conducting	-	2	2
MUSI_	Music Elective(s)	-	2	2
MUSI 317, 318	Seminar	0	0	0
	<b>Totals</b>	<b>16</b>	<b>13</b>	<b>29</b>
<b>SENIOR YEAR</b>				
HIST 114 OR 115	World Civilization	3	-	3
MUSI 413	Applied Voice Major	3		3
SOCI_	Social Science Menu	-	3	3
MUSI 471,472	Ensemble Choir	1	1	2
MUSI 483	Voice Pedagogy	2	-	2
MUSI 473, 474	Opera Workshop	1	1	2
	Elective(s)	-	3	3
ENGL_	Literature-Menu	3	-	3
MUSI_	Music Elective(s)	2	-	2
MUSI 424	Senior Recital	-	3	3
MUSI_	Dramatic Music	-	2	2
MUSI 417, 418	Seminar	0	0	0
	<b>Totals</b>	<b>15</b>	<b>13</b>	<b>28</b>

**Total Program Semester Hours    124**

**DEPARTMENT OF MUSIC**

**MUSIC MAJOR**

**Bachelor of Music Degree in Instrumental Music  
With a Minor in Secondary Education PreK 12**

		Semester Hours		
		1st Sem	2nd Sem	Total Hours
<b>FRESHMAN YEAR</b>				
ENGL 110, 111	Composition I, II	3	3	6
MATH 112, 113	Basic Mathematics	3	3	6
MUSI 155	Technology for Musicians	2	-	2
MUSI 105, 106	Class Piano	1	1	2
MUSI 121, 122	Applied Major Instrument	2	2	4
MUSI 181	Basic Theory	3	-	3
MUSI 183, 184	Sight singing/Ear Training	1	1	2
MUSI 161, 162	Ensemble Band	1	1	2
MUSI 182	Chromatic Harmony	-	3	3
IDST 200	Digital Media	-	3	3
MUSI 117, 118	Seminar	0	0	0
	<b>Totals</b>	<b>16</b>	<b>17</b>	<b>33</b>
<b>SOPHOMORE YEAR</b>				
MUSI 191	Strings	1	-	1
MUSI 205, 206	Class Piano	1	1	2
MUSI 221, 222	Applied Major Instrument	2	2	4
MUSI 281	Form & Analysis	3	-	3
MUSI 285, 286	Music History	3	3	6
EDUC 201, 202	Introduction to Teaching	2	2	4
	Science & Lab- Menu	4	-	4
MUSI 261.262	Ensemble Band	1	1	2
MUSI 192	Percussion	-	1	1
MUSI 282	20th Century Theory	-	3	3
HIST 114 or 115	World Civilization	-	3	3
MUSI 217, 218	Seminar	0	0	0
	<b>Totals</b>	<b>17</b>	<b>16</b>	<b>33</b>

<b>JUNIOR YEAR</b>				
MUSI 290	Music History	3	-	3
MUSI 321, 322	Applied Major Instrument	2	2	4
MUSI 361, 362	Ensemble Band	1	1	2
MUSI 295	Woodwinds	1	-	1
EDUC 315	Data Driven Instr.	3	-	3
HPER	Wellness/Health-Menu	2	-	2
PSYC 212	Human Growth	3	-	3
EDUC 427	Reading in Sub. Area	-	3	3
MUSI 393	Mus. For the Elem. Spec.	-	3	3
MUSI 287	Elementary Conducting	-	2	2
MUSI 296	Brass winds	-	1	1
SPED 403	Clrm. Mgt. in ED sets	-	3	3
MUS 317, 318	Seminar	0	0	0
	<b>Totals</b>	<b>15</b>	<b>15</b>	<b>30</b>
<b>SENIOR YEAR</b>				
ENGL_	Literature- Menu	3	-	3
MUSI 499	Senior Recital	1	-	1
MUSI 461	Ensemble Band	1	-	1
MUSI 491	Mus. for Inst. Spec.	3	-	3
MUSI 388	Adv. Instrum. Conducting	2	-	2
EDUC 424	Cr. Issues in Ed	2	-	2
MUSI 485	Orchestration	2	-	2
EDUC 401	Student Teach. Seminar	-	3	3
EDUC 402	Student Teaching	-	9	9
MUSI 478	Student Teaching in Music	-	3	3
MUSI 417	Seminar	0	-	0
	<b>Totals</b>	<b>14</b>	<b>15</b>	<b>29</b>

**Total Program Semester Hours 125**

**DEPARTMENT OF MUSIC**

**MUSIC MAJOR**

**Bachelor of Music Degree with a concentration in Sound Recording Technology**

		Semester Hours		
		1st Sem	2nd Sem	Total Hours
<b>FRESHMAN YEAR</b>				
ENGL 110, 111	Composition I, II	3	3	6
MATH 120, 121	College Algebra & Trig.	3	3	6
MUSI 155	Technology for Musicians	2	-	2
MUSI 105, 106	Class Piano	1	1	2
MUSI_	Applied Major (Inst./Voice) <sup>1</sup>	2	2	4
MUSI 181	Basic Theory	3	-	3
MUSI 183, 184	Sight singing/Ear Training	1	1	2
MUSI_	Ensemble	1	1	2
MUSI 182	Chromatic Harmony	-	3	3
MUSI 253	Instrumental Survey	-	1	1
MUSI 117, 118	Seminar	0	0	0
	<b>Totals</b>	<b>16</b>	<b>15</b>	<b>31</b>
<b>SOPHOMORE YEAR</b>				
MUSI_	Applied Major (Inst./Voice) <sup>2</sup>	2	2	4
MUSI_	Music Electives	1	-	1
MUSI_	Ensemble	1	1	2
MUSI 281	Form and Analysis	3	-	3
MUSI 282	20th Century Theory	-	3	3
MUSI 283	Sight singing/Ear Training	1	0	1
MUSI 285, 286	Music History	3	3	6
MUSI 292	Intro. to Music Industry	0	2	2
MUSI 294	Intro. to Recording Studio	0	2	2
GE_	Science and Lab	4	4	8
MUSI 217, 218	Seminar	0	0	0
	<b>Totals</b>	<b>15</b>	<b>17</b>	<b>32</b>

<b>JUNIOR YEAR</b>				
GEHI 114 or 115	World Civilization	3	-	3
MUSI_	Applied Major (Inst./Voice)	2	2	4
MUSI_	Ensemble	1	1	2
MUSI 115, 116	Voice Class	1	1	2
MUSI 287	Elementary Conducting	-	2	2
MUSI 377	History of Music Tech.	2	-	2
MUSI 378	Music Multi-Media Applic.	-	2	2
MUSI 384	Jazz History	2	-	2
MUSI 390	Audio Technology 1	-	3	3
MUSI 396	20th Century Music History	-	2	2
MUSI 485	Orchestration	-	2	2
GE_	Wellness	2	-	2
GE	Social Science	3	-	3
MUSI 317	Seminar	0	-	0
	<b>Totals</b>	<b>16</b>	<b>15</b>	<b>31</b>

<b>SENIOR YEAR</b>				
MUSI_	Ensemble	1	-	1
MUSI 425	Audio Technology II	3	-	3
MUSI 426	Music Industry Internship	-	6	6
MUSI 428	Studio Seminar	-	3	3
MUSI 497	Physics of Music	2	-	2
MUSI_	Music History 397, 398 or 399	2	-	2
MUSI_	Music Electives	-	3	3
GE_	Literature	3	-	3
MUSI 200	Blacks in American Music	3	-	3
	Seminar	-	-	-
	<b>Totals</b>	<b>14</b>	<b>12</b>	<b>26</b>

<sup>1</sup>Applied Music numbers vary depending upon the choice of performing medium and semester of study. All of the appropriate numbers are listed in the current University catalogue and will be assigned to the student's faculty advisor. <sup>2</sup>Choice of Ensemble throughout curriculum: The choice here can be made from the many instrumental or vocal ensembles offered in the department.

**Total Program Semester Hours    120**

## **THE DEPARTMENT OF POLITICAL SCIENCE AND PUBLIC ADMINISTRATION**

**Chairperson:** Gary Baker  
Colson Hall, Room 100  
:  
(804) 524-5037

**Professors:** Chaya Jain

**Associate Professor:** W. Neal Holmes

**Assistant Professors:** Gary Baker, Theodore Brown, Wayne Jones

### **Description of the Department**

The Department of Political Science and Public Administration was established in 1966, and continues to exist as an integral component of the College of Humanities and Social Sciences. The Department offers a political science education that emphasizes scholarship, the pursuit of knowledge through research and instruction, and the development of a critical understanding of government - locally, nationally and internationally. The Department of Political Science offers a program of study leading to the Bachelor of Arts (B.A.) in political science.

### **Mission of the Department**

The mission of the Department is to offer a political science education with a solid foundation of knowledge, skills, and abilities, and to produce graduates who have the intellectual, critical and analytical skills that are necessary to understand how political systems function, how to affect politics through participation, and how to make rational choices about government policies and those who govern.

### **Objectives of the Department**

- To help develop the critical and analytical skills to understand how political systems function, and how to make rational decisions about government policies and those who govern.
- To provide a foundation of theory and knowledge, values and skills for students who are interested in pursuing advanced study in graduate or professional school.
- To prepare students for careers in the public and private sectors by incorporating marketable skills into the general curriculum.
- To develop the critical and analytical skills which enable students to understand policy and program formulation, implementation and evaluation, decision-making, and problem solving.
- To provide opportunities for students to develop and test empirical hypotheses. Make assumptions, and draw inferences, using analytics, and various statistical research methods.

### **The Minor Program in Political Science**

The Minor Program in political science is specifically designed to give the non-political science major an opportunity to complement his or her course work with a focused and structured program of study. The program will broaden your understanding of national and international issues, and increase the range of your career and professional options. The Minor Program is especially recommended for majors in Management, Economics, History, International Studies, Sociology, and Education. The program consists of 18 credit hours; twelve credit hours in core courses, and six credit hours in political science electives at the 300 level or above.

### CORE COURSES – Minor Program in Political Science

CORE COURSES	Credit Hours
POLI 150 United State Government	3
POLI 102 State and Local Government	3
POLI 210 Comparative Government	3
POLI 202 Contemporay Political Thought	3
Political Science Electives (300 or Above)	6
<b>Total Hours Required for the Minor in Political Science</b>	<b>18</b>

### The Minor Program in Public Administration

The Minor Program in Public Administration is designed to give the non-political science major the opportunity to complement his or her major course of study. Students who decide to minor in public administration will be able to broaden their knowledge and understanding of the day-to-day workings of government at all levels. The PA minor program is especially recommended for, but not limited to, majors in the sciences, social sciences, technology, business administration, and psychology.

### CORE COURSES – Minor Program in Public Administration

CORE COURSES	Credit Hours
PADM 101 Foundations of Intergovernmental Relations	3
PADM 211 Government Management	3
PADM 301 Public Policy Analysis	3
PADM 305 Introduction to Public Sector Budgeting	3
PADM 307 Administrative Law	3
PADM 410 Grants Management	3
<b>Total Hours Required for the Minor in Political Science</b>	<b>18</b>

### The Pre-Law Advisement

The Department of Political Science also offers to students across the University the opportunity to participate in Pre-Law Advisement. The program is designed to help the student develop the cognitive, analytical, and logical reasoning skills necessary to cope with the challenges of a law school environment. The advisement program offers assistance in helping the student understand the law school application process, including applying for the Law School Admissions Test, contacting law school admissions Deans, developing a personal statements, and arranging for law schools visits.

### Assessment in the Major

The Comprehensive Assessment Examination is a major component of the Department's continuing commitment to academic excellence and intellectual development in the discipline. All political science majors, in their junior year of study, are required to take the Comprehensive Assessment Examination. The examination assesses a students' basic knowledge of political science concepts, principles, and facts in the areas of United States Government, State and Local Government, and Comparative Government.

## **Department Student Organizations**

The Department has two undergraduate student organizations:

**Pi Sigma Alpha, Kappa Psi Chapter** – The national political science Honor Society is open to undergraduate students in political science who have achieved the required level of academic excellence.

**The Association of Political Science (TAPS)** – The premier student organization in the Department. TAPS is open to all political sciences majors and students from other majors who are enrolled in the political science minor program.

**Department of Political Science and Public Administration  
Bachelor of Arts Degree in Political Science**

<b>FRESHMAN YEAR</b>				
		<b>Semester Hours</b>		
		<b>1<sup>st</sup> Sem</b>	<b>2<sup>nd</sup> Sem</b>	<b>Total Hours</b>
<b>ENGL 110, 111</b>	<b>Composition I, II</b>	<b>3</b>	<b>3</b>	<b>6</b>
<b>HIST 122, 123</b>	<b>United States History I, and II</b>	<b>3</b>	<b>3</b>	<b>6</b>
<b>MATH 112, 113</b>	<b>Basic Math I, and II</b>	<b>3</b>	<b>3</b>	<b>6</b>
<b>POLI 150</b>	<b>United States Government</b>	<b>3</b>		<b>3</b>
<b>POLI 102</b>	<b>State and Local Government</b>		<b>3</b>	<b>3</b>
<b>GE Natural Science</b>	<b>Natural Science Elective &amp; Lab</b>		<b>4</b>	<b>4</b>
<b>HPER</b>	<b>Wellness</b>	<b>2</b>		<b>2</b>
<b>TOTAL</b>		<b>14</b>	<b>16</b>	<b>30</b>

<b>SOPHOMORE YEAR</b>				
		<b>Semester Hours</b>		
		<b>1<sup>st</sup> Sem</b>	<b>2<sup>nd</sup> Sem</b>	<b>Total Hours</b>
<b>PHIL 140</b>	<b>Introduction to Philosophy</b>	<b>3</b>		<b>3</b>
<b>PSYC 101</b>	<b>Introduction to Psychology</b>	<b>3</b>		<b>3</b>
<b>ENGL 202</b>	<b>African American Literature</b>	<b>3</b>		<b>3</b>
<b>POLI 202</b>	<b>Contemporary Political Thought</b>	<b>3</b>		<b>3</b>
<b>POLI 210</b>	<b>Comparative Government</b>		<b>3</b>	<b>3</b>
<b>STAT 210</b>	<b>Elementary Statistics</b>		<b>3</b>	<b>3</b>
<b>Humanities Elective</b>	<b>Humanities Elective</b>		<b>3</b>	<b>3</b>
<b>POLI</b>	<b>Political Science Restrictive Elective</b>		<b>3</b>	<b>3</b>
<b>Technology Elective</b>	<b>Technology Elective</b>		<b>3</b>	<b>3</b>
<b>Unrestrictive Elective</b>	<b>Unrestrictive Elective</b>	<b>3</b>		<b>3</b>
<b>TOTAL</b>		<b>15</b>	<b>15</b>	<b>30</b>

<b>JUNIOR YEAR</b>				
		<b>Semester Hours</b>		
		<b>1<sup>st</sup> Sem</b>	<b>2<sup>nd</sup> Sem</b>	<b>Total Hours</b>
<b>ECON 210, 211</b>	<b>Principles of Microeconomics, Macroeconomics</b>	<b>3</b>	<b>3</b>	<b>6</b>
<b>POLI 301</b>	<b>The Scope and Methods of Political Science</b>	<b>3</b>		<b>3</b>
<b>POLI 302</b>	<b>The Techniques of Political Analysis</b>		<b>3</b>	<b>3</b>
<b>POLI 306</b>	<b>Seminar in Urban Problems</b>	<b>3</b>		<b>3</b>
<b>POLI 308, 309</b>	<b>Polimetrics I and Polimetrics II</b>	<b>3</b>	<b>3</b>	<b>6</b>
<b>Unrestrictive Electives</b>	<b>Unrestrictive Electives</b>	<b>3</b>	<b>6</b>	<b>9</b>
<b>TOTAL</b>		<b>15</b>	<b>15</b>	<b>30</b>

<b>SENIOR YEAR</b>				
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		<b>Semester Hours</b>		
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		<b>1<sup>st</sup> Sem</b>	<b>2<sup>nd</sup> Sem</b>	<b>Total Hours</b>
<b>POLI 403, 404</b>	<b>Senior Thesis, Senior Seminar</b>	<b>3</b>	<b>3</b>	<b>6</b>
<b>POLI</b>	<b>Political Science Restrictive Electives</b>	<b>3</b>	<b>3</b>	<b>6</b>
<b>Unrestrictive Electives</b>	<b>Unrestrictive Electives</b>	<b>9</b>	<b>9</b>	<b>18</b>
<b>TOTAL</b>		<b>15</b>	<b>15</b>	<b>30</b>
			<b>Total Hours</b>	<b>120</b>

**VSU GENERAL EDUCATION ASSESSMENT**  
**Course Descriptions**

**ASMT 100 General Education Assessment (freshmen) – 0 semester hours**

This course is designed to assess and document new freshman and designated new transfer students' entering level of achievement of the University's general education student learning outcomes as reflected in the undergraduate catalog. All first time freshmen and new transfer students who are transferring fewer than 45 semester hours to VSU will be registered automatically for this course. During Freshman and Transfer Week, students will be required to complete three computer based general education (GE) pretests: the Global Studies, Humanities, and Social Sciences Assessment, the Mathematics and Science Assessment, and the Information Literacy pre-test. By the end of their first full semester of enrollment, students must complete the assigned set modules within the Credo Information Literacy learning management system. After fulfilling all of the requirements, students will earn a grade of Satisfactory (S) for the course, receive their scores on the assessments, and a University certificate of accomplishment.

**ASMT 300 General Education Assessment (juniors) – 0 semester hours**

This course is designed to assess and document junior students' gains and level of achievement on the University's general education student learning outcomes as reflected in the undergraduate catalog. All juniors will be registered automatically for this course. Students will be required to complete their assigned computer based general education (GE) post-test—the Global Studies, Humanities, and Social Sciences Assessment or the Mathematics and Science Assessment—that is aligned with their major, and all students must complete the Credo Information Literacy post-test. After fulfilling all of the requirements, students will earn a grade of Satisfactory (S) for the course, receive their scores on the assessments, and a University certificate of accomplishment.

**POLITICAL SCIENCE**  
**Course Descriptions**

**POLI 150 UNITED STATES GOVERNMENT - 3 semester hours**

An introductory course in the study of the American political system.

**POLI 102 STATE AND LOCAL GOVERNMENT -3 semester hours**

A study of the structure, operations, and functions of the state and local institutions of government.

**POLI 201 POLITICAL PHILOSOPHY - 3 semester hours**

A study of the development of political thought from the Greek period through the Middle Ages.

**POLI 202 CONTEMPORARY POLITICAL THOUGHT - 3 semester hours**

A study of political thought from the end of the Middle Ages to the present.

**POLI 203 GOVERNMENT AND POLITICS IN RUSSIA -3 semester hours**

A study of the theory, organization, and administrative processes in the Russian political system.

**POLI 204 MODERN AFRICA - 3 semester hours**

A political and historical analysis of the problems of nation-states on the African continent, from 1945 to the present.

**POLI 205 GOVERNMENT AND POLITICS OF DEVELOPING COUNTRIES -  
3 semester hours**

A study of the political and economic problems of underdeveloped countries in the Third World.

**POLI 206 GOVERNMENT AND POLITICS OF CHINA - 3 semester hours**

A study of the political ideologies, institutions, and decision-making processes in the People's Republic of China.

**POLI 207 INTERNATIONAL RELATIONS - 3 semester hours**

A study of the political, social, and economic dynamics of the present international system.

**POLI 208 INTERNATIONAL LAW AND ORGANIZATIONS - 3 semester hours**

A study of the origin, character, and principles of law that determine the duties and rights of nations in their relations.

**POLI 209 PUBLIC ADMINISTRATION -3 semester hours**

A study of the principles of public administration; structure, organization, and management in modern government with emphasis on the bureaucratic role in public policy formation.

**POLI 210 COMPARATIVE GOVERNMENT -3 semester hours**

A comparative analysis of nation-states within the contemporary international system.

**POLI 301 THE SCOPE AND METHODS OF POLITICAL SCIENCE - 3 semester hours**

Inquiry into the methodology, epistemology, and techniques of the discipline of political science.

**POLI 302 THE TECHNIQUES OF POLITICAL ANALYSIS - 3 semester hours**

A study of the research methodologies and techniques used in the study of political problems.

**Prerequisite: POLI 301**

**POLI 303 POLITICAL PARTIES AND PRESSURE GROUPS - 3 semester hours**

A study of political parties and interest groups and their impact on public policy.

**POLI 304 AMERICAN CONSTITUTIONAL LAW - 3 semester hours**

A study of judicial interpretation, the nature of judicial review, selected leading decisions of the United States Supreme Court and their impact on the basic principles of government.

**POLI 305 SEMINAR IN BLACK POLITICS - 3 semester hours**

A study of the political impact of African-Americans in local, state, and national policy issues.

**POLI 306 SEMINAR IN URBAN PROBLEMS - 3 semester hours**

A study of the political, social, and economic problems affecting metropolitan communities.

**POLI 307 AMERICAN FOREIGN POLICY - 3 semester hours**

A study of the formation, implementation, and implications of American foreign policy.

**POLI 308 POLIMETRICS I - 3 semester hours**

A study of statistical approaches in political science research, with emphasis on survey research and data analysis using the SPSS statistical analysis program.

**Prerequisites: GEMA 112 Basic Mathematics; GEMA 113 Basic Mathematics; STAT 210 Elementary Statistics I**

**POLI 309 POLIMETRICS II - 3 semester hours**

A study of statistical approaches in political science research. Advance data analysis techniques, including univariate, bivariate, and multivariate analysis, and the testing of hypotheses.

**Prerequisites: POLI 308 Polimetrics I**

**POLI 310 POLITICAL SCIENCE INTERNSHIP - 6 semester hours**

Students provided with the opportunity to experience the workings of government, through placement in internships with various legislators, and public and private agencies.

**Prerequisite: Minimum sophomore status, or approval of Department Chairperson**

**POLI 315 THE CIVIL RIGHTS MOVEMENT - 3 semester hours**

A study of the political, social, and economic dimensions of the civil rights movement from 1954 to the present.

**POLI 400 SEMINAR IN LOCAL POLITICS - 3 semester hours**

A study of the dynamics of local politics. Seminar format that would include assigned readings, field research, lecture, and discussion.

**POLI 403 SENIOR THESIS - 3 semester hours**

Execution of senior thesis research design, computer-based data analysis, and production of first draft of the senior thesis.

**Prerequisites:** POLI 301 The Scope and Methods of Political Science; POLI 302 The Techniques of Political Analysis

**POLI 404 SENIOR SEMINAR - 3 semester hours**

Production of final draft of senior thesis complete with faculty suggested revisions. Presentation and defense of thesis must be concluded by deadline date for submission of senior grades.

**Prerequisite:** POLI 403 Senior Thesis

**POLI 408 INDEPENDENT RESEARCH/STUDY - 3 semester hours**

Opportunity to work on community issues, policy issues, or independent research. Work is supervised by assigned faculty member.

**Prerequisite:** Approval of Department Chairperson

**POLI 409 CONSTITUTIONAL AND CIVIL LIBERTIES - 3 semester hours**

A study of the role of the Constitution and the function of the courts in defining and safeguarding civil rights and civil liberties.

**POLI 410 PRESIDENTIAL POLICY-MAKING - 3 semester hours**

A study of the President's role in formulating public policy through interaction with domestic and foreign political actors.

**POLI 412 THE POLITICAL ECONOMY OF SOUTHERN AFRICA - 3 semester hours**

A study of the political and economic forces which shape the politics of nation-states in southern Africa.

**POLI 413 POLITICS OF MULTINATIONAL CORPORATIONS IN THE THIRD WORLD - 3 semester hours**

A study of the impact of multinational corporations on the politics of nation-states in the Third World.

**POLI 414 MARXIST POLITICAL PHILOSOPHY - 3 semester hours**

A study of the nature of the state, politics, social development, and class struggle from the writings of Karl Marx and Frederick Engels.

**GLST 202/302/402: [Specify Topic or Discipline], Variable Credit: 1 to 6 semester hours**

Through participation in an immersion experience abroad, students will explore global issues in the context

of a particular country or region. This study abroad course may involve language and cultural studies of an area as well as an exploration of theme-based topics such as food and population, health, education, business, sustainable development, women's issues, indigenous peoples, socio-economic issues, science and technology, environmental issues, and other topics. Counts as an elective.

**PUBLIC ADMINISTRATION**  
**Course Descriptions**

**PADM 101 FOUNDATIONS OF INTERGOVERNMENTAL RELATIONS - 3 semester hours**

An introductory study of the basic structure of American federalism and the intergovernmental context of the work of public managers in national, state and local governments.

**PADM 207 LEGISLATIVE PROCESSES - 3 semester hours**

A detailed analysis of the structure and organization of the federal Congress. A review of the ways in which public issues become legislation and the interrelationships between federal, state and local legislative processes.

**PADM 211 GOVERNMENTAL MANAGEMENT & DECISION-MAKING - 3 semester hours**

A detailed study of the management and operations of modern public agencies with emphasis on the organization of service delivery structures, decision-making theory, history, and practice.

**PADM 301 PUBLIC POLICY ANALYSIS - 3 semester hours**

A summary of policy development models with emphasis on understanding the complex interrelationships of public and private systems. A detailed analysis of specific issues is a regular part of class work, including developing critical thinking skills.

**PADM 305 INTRODUCTION TO PUBLIC SECTOR BUDGETING - 3 semester hours**

Identification, analysis and discussion of the various approaches to public sector budgeting and budget processes are covered. Emphasis on developing a theoretical and practical knowledge of budgeting techniques applied at the national, state and local levels of government.

**PADM 307 ADMINISTRATIVE LAW - 3 semester hours**

Overview of the American public law systems and lawmaking processes at each level of government. Students undertake intensive case study in the areas of due process, administrative law, regulatory law, sovereignty and judicial review.

**PADM 309 PUBLIC INSTITUTIONS & ORGANIZATIONAL ENVIRONMENT -  
3 semester hours**

Students will explore and analyze basic concepts of developing institutional responses to public sector programs and problems. Emphasis on various bureaucratic models and personal behavior within organizations.

**PADM 401 ENERGY AND ENVIRONMENTAL LAW AND ADMINISTRATION  
3 semester hours**

A study of the management of energy and environmental issues in an intergovernmental context; an analysis of the political, social and economic impact of energy and environmental policy with special emphasis given to legislative, executive, judicial, and administrative actions to establish and implement policies on natural resources and waste disposal.

**PADM 403 LAND USE LAW AND POLICY - 3 semester hours**

A summary of the law and practice relative to State planning, zoning and regulatory practices. A review of federal law and national agency administration of federal lands, internal navigable waters, solid and liquid waste disposal, hazardous materials disposal and the impact upon state and local government; students must have taken PADM 307.

**Prerequisite: Permission of the instructor required**

**PADM 404 PROJECT MANAGEMENT - 3 semester hours**

Detailed consideration of various work scheduling and resource management techniques with emphasis on Program Evaluation and Review Techniques (PERT). A study of various functional area models for program planning, evaluation, design, development and integration. Use of computer software programs in project management is required.

**PADM 405 ADVANCED PUBLIC PERSONNEL ADMINISTRATION - 3 semester hours**

A Comprehensive review of wage and salary administration techniques, position classification, merit systems, EEO programs, training and evaluation, and labor relations in the public sector. Emphasis on understanding the role of the employee and employer in accomplishing public program goals.

**PADM 406 ADVANCED PUBLIC SECTOR BUDGETING - 3 semester hours**

A detailed examination of governmental revenue and expenditure systems. Emphasis will be placed on governmental accounting, reporting, productivity analysis, auditing, and the “how to” of budget preparation at the local, state, and national levels.

**PADM 410 GRANTS MANAGEMENT - 3 semester hours**

Comprehensive and thorough study of the techniques used in managing federal and state grant-in-aid programs. Emphasis will be placed upon the contracts and grants management, procurement practices under federal and state law, accounting requirements, reporting requirements, program control, and fiscal performance.

**THE DEPARTMENT OF POLITICAL SCIENCE,  
PUBLIC ADMINISTRATION  
Political Science  
Bachelor of Arts Degree**

**FRESHMAN YEAR**

			<b>Semester Hours</b>		
			<b>Sem</b>	<b>Sem</b>	<b>Hours</b>
			<b>1st</b>	<b>2nd</b>	<b>Total</b>
ENGL	110	Composition I	3	-	3
ENGL	111	Composition II	-	3	3
HIST	122	United States History	3	-	3
HIST	123	United States History	-	3	3
MATH	112	Basic Math	3	-	3
MATH	113	Basic Math	-	3	3
POLI	150	United States Government	3	-	3
POLI	102	State & Local Government	-	3	3
HPER	170	Wellness Course (GE MENU)	2	-	2
GE		Natural Science And Lab	-	4	4
<b>TOTAL</b>			<b>14</b>	<b>16</b>	<b>30</b>

**SOPHOMORE YEAR**

PHIL	140	Introduction to Philosophy	3	-	3
PSYC	124	Introduction to Psychology	3	-	3
ENGL	202	African-American Literature (GE MENU)	3	-	3
POLI	202	Contemporary Political Thought	3	-	3
POLI	210	Comparative Government	-	3	3
STAT	210	Elementary Statistics	-	3	3
GE		Humanities Elective	-	3	3
Political Science		Restrictive Elective	-	3	3
Technology		Elective	-	3	3
Unrestrictive		Elective	3	-	3
<b>TOTAL</b>			<b>15</b>	<b>15</b>	<b>30</b>

**JUNIOR YEAR**

ECON	210	Principles of Microeconomics	3	-	3
ECON	211	Principles of Macroeconomics	-	3	3
POLI	301	Scope & Methods of Political Science	3	-	3
POLI	302	Techniques of Political Analysis	-	3	3
POLI	306	Seminar in Urban Problems	3	-	3
POLI	308	Polimetrics I	3	-	3
POLI	309	Polimetrics II	-	3	3
Unrestrictive		Elective	3	6	9
<b>TOTAL</b>			<b>15</b>	<b>15</b>	<b>30</b>

**SENIOR YEAR**

POLI	403	Senior Thesis	3	-	3
POLI	404	Senior Seminar	-	3	3
Political Science		Restrictive Electives	3	3	6
Unrestrictive		Electives	9	9	18
<b>TOTAL</b>			<b>15</b>	<b>15</b>	<b>30</b>

**Total Hours Required For Graduation    120**

## SUMMARY OF GRADUATION REQUIREMENTS

Bachelor of Arts – Political Science

### GENERAL EDUCATION REQUIREMENTS

ENGL 110	Composition I	3 credit hours
ENGL 111	Composition II	3 credit hours
HIST 122	United States History to 1865	3 credit hours
HIST 123	United States History After 1865	3 credit hours
MATH 112	Basic Math I	3 credit hours
MATH 113	Basic Math II	3 credit hours
PHIL 140	Introduction to Philosophy	3 credit hours
PSYC 101	Introduction to Psychology	3 credit hours
ENGL 202	African American Literature	3 credit hours
STAT 210	Elementary Statistics	3 credit hours
ECON 210	Principles of Microeconomics	3 credit hours
ECON 211	Principles of Macroeconomics	3 credit hours
HPER 170	Health and Wellness	2 credit hours

**Total** **38 credit hours**

Natural Science Elective	4 credit hours
Humanities Elective	3 credit hours
Technology Elective	3 credit hours
Unrestrictive Electives	30 credit hours

**Total** **40 credit hours**

### REQUIRED COURSES IN THE MAJOR

POLI 150	United States Government	3 credit hours
POLI 102	State and Local Government	3 credit hours
POLI 202	Contemporary Political Thought	3 credit hours
POLI 210	Comparative Government	3 credit hours
POLI 301	Scope and Methods of Political Science	3 credit hours
POLI 302	Techniques of Political Analysis	3 credit hours
POLI 306	Seminar in Urban Problems	3 credit hours
POLI 308	Polimetrics I	3 credit hours
POLI 309	Polimetrics II	3 credit hours
POLI 403	Senior Thesis	3 credit hours
POLI 404	Senior Seminar	3 credit hours
POLI	Political Science Electives	9 credit hours

**Total** **42 credit hours**

## THE DEPARTMENT OF SOCIAL WORK

<b>Chairperson:</b>	Gwendolyn B. Thornton Trinkle Hall, Room 101 (804) 524-1435/6276
<b>Associate Professor:</b>	Gwendolyn B. Thornton
<b>Assistant Professors:</b>	Angela Henderson, Jane Parker
<b>Instructor:</b>	Franklin Fox
<b>Adjunct Instructors:</b>	Keneshia Thornton, Latroyal Smith, Shannon Updike, Tammy Walton, Melissa Foublasse, Carla Jones, Mary Ware, Anne Hardin

### Description of the Department

The VSU Bachelor of Social Work (BSW) Program is fully accredited through the Council on Social Work Education (CSWE), and it is consistent with the university's mission and institutional goals, and the Educational Policy and Accreditation Standards of the Council on Social Work Education (CSWE).

Building on a generalist model of social work practice and the firm liberal arts foundation, baccalaureate social work students are specifically prepared for beginning generalist professional social work practice with individuals, groups, families, organizations and communities.

Upon graduation, BSW graduates may be immediately considered for employment in social service agencies, health and governmental agencies, schools, hospitals, corrections, private community service agencies and other organizations. They work with individuals of all ages from infancy through the end of life in areas such as child welfare, developmental disabilities, health, mental health, policy and planning, domestic violence, and gerontology. No other degree provides greater diversity in jobs than a Bachelor of Social Work (BSW).

The Department of Social Work is committed to collaborating and partnering with the community to assist in implementing the following requests made by the community residents and stakeholders in the Central and Southern Virginia regions:

#### Community Needs

- Help with the analysis of community issues
- Develop a service for the assessment of community needs
- Provide organizational training and assistance
- Assist community groups and others with grant writing, especially the evaluation component
- Implement research on community issues
- Actively assist with the revitalization/advancement of communities in crisis
- Promote interaction, communication and faculty involvement with the local community

#### Community Development

- Convene various agencies (local, state and federal) and community groups for the dissemination and collection of information and coordination of activities.
- Implementation of a community development project through coursework or an academic program.

## **Mission of the Department**

The mission of the Department is to prepare traditional and non-traditional students for professional entry-level generalist social work practice who are committed to social, economic and environmental justice throughout the surrounding urban, suburban, rural and military base communities in Central and Southern Virginia.

As entry-level practitioners, students are capable of delivering social services in a manner that is consistent with the values (social justice, the dignity and worth of the person, the importance of human relationships, integrity, competence, human rights, and scientific inquiry) and ethics of the social work profession. Ultimately, students recognize their responsibility to continue their professional growth and development in research and the incorporation of the latest technologies in their practice.

Building on a strong liberal arts base, the program provides quality professional educational experiences in partnerships with a wide variety of community agencies and organizations. The Department is committed to serving culturally and economically diverse students, including first-generation as well as those coming to the university from their first two years in the community colleges in the region, and from four-year institutions as well.

The mission, purpose and philosophy of the Social Work Department at Virginia State University are consistent with the overall institutional mission. The institutional mission is “to graduate lifelong learners who are well equipped to serve their communities as informed citizens, globally competitive leaders, and highly effective, ethical professionals”.

## **Social Work Program Goals**

Based on our mission statement, the goals of the Social Work Program are to produce:

1. Excellent practitioners prepared as liberal arts based baccalaureate level generalist social workers;
2. Culturally aware and knowledgeable generalist social work professionals with a demonstrated commitment to social, economic and environmental justice in an ever-changing global society, especially in the central and southern Virginia region;
3. Professionals who are imbued to facilitate and provide community advocacy and service to diverse populations-at-risk in urban, suburban and rural settings, including surrounding military base communities;
4. Critical thinkers who are able to integrate social work knowledge, values, practice skills, social policy and the research process to ethical social work practice with an emphasis on addressing the needs of central and southern Virginia residents;
5. Leaders dedicated to a commitment of life-long learning by pursuing graduate education, training opportunities and leadership roles.

## **Program Core Competencies**

Competency – based education is an outcome performance approach to curriculum design. Each competency describes the knowledge, values, skills, and cognitive and affective processes that comprise the competency at the generalist level of practice. The goal of the outcome approach is to demonstrate the integration and application of the competencies in practice with individuals, families, groups, organizations and communities. VSU BSW Social Work Program competencies (CSWE 2015) are consistent with our Program Mission and Goals.

Upon completion of the social work major, students will be able to:

1. Demonstrate ethical and professional behavior
2. Engage diversity and difference in practice
3. Advance human rights and social, economic, and environmental justice
4. Engage in practice-informed research and research-informed practice
5. Engage in policy practice
6. Engage with individuals, families, groups, organizations, and communities
7. Assess individuals, families, groups, organizations, and communities
8. Intervene with individuals, families, groups, organizations, and communities
9. Evaluate practice with individuals, families, groups, organizations, and communities

### **Admissions to the Social Work Major**

In addition to admission as a classified student to VSU, and formal declaration of social work as your major you must still apply for “accepted status” as a VSU baccalaureate social work major. This process is intended to provide a first screening mechanism as you proceed towards a career in the helping profession of social work.

Social work majors must be formally admitted to the BSW program before enrolling into social work (300 level and above) courses. Application to the BSW program is **separate** from the application to the University. Criteria and procedures for admission to the BSW program are outlined in the BSW Student Handbook.

In order to be formally admitted into the BSW program, students are required to make formal application during their sophomore year. To be accepted into the social work major, the student must have satisfied the following requirements:

1. Accepted by or in good academic standing with the University.
2. Completed Application for Admission to the BSW program, including recommendations, an essay and discussion of their commitment to social, economic and environmental justice.
  - a. Recommendations should include two from professors and one from the volunteer supervisor.
  - b. The essay should be a three to five page essay (typed and double spaced) detailing the following; interest in social work, leadership, strengths, and experience working with individuals, groups or communities, personal and professional short and long term goals, and the student’s commitment to the completion of the VSU BSW Program.
3. A copy of official transcript(s) – if applicable
4. Successful completion with documentation of 25 pre-approved clock hours of volunteer or paid work experience in an appropriate social service agency within the past two years.
5. Completed the general education curriculum, unrestricted electives, and the pre-social work required coursework, SOWK 210, SOWK 260 and STAT 210 (9 credits) with a minimum 2.5 cumulative GPA (transfer students 2.5 GPA).
6. Transfer students holding an Associate degree will need to complete the prerequisite (SOWK 210, SOWK 260, STAT 210) social work courses (with a grade of C or higher) for admission into the social work major. Transfer students who have taken social work courses from an accredited program elsewhere must consult with the BSW Department Chair.
7. Grade C or better in the pre-social work courses required for admission into the social work major.

## **Articulation Agreement with John Tyler Community College**

VSU and John Tyler Community College have partnered together to facilitate the transfer of credits earned by students with an Associate of Applied Science (A.A.S) degree in Human Services - Pre-Social Work at JTCC into the BSW program at VSU. This partnership is intended to provide students enrolled in the Human Services – Pre-Social Work A.A.S program at JTCC admission in the BSW program.

### **Continuation in the Social Work Major**

A student must demonstrate readiness to enter and continue in the professional or upper level courses in the baccalaureate social work program of study. This requires:

1. Academic achievement (maintain a cumulative GPA of 2.5 and a 2.5 GPA in the required courses for social work);
2. Student must successfully and satisfactorily complete 600 hours of field practicum and seminar;
3. Personal and professional behavior consistent with the NASW Code of Ethics;
4. Effective work with client systems as demonstrated through practice laboratory and field courses;
5. Capacity to master the necessary non-academic areas for continuance in the major. The following further defines the non-academic conditions for continuance in the major:
  - a. Ethics – in addition to academic expectations, social work students are expected to demonstrate professional behavior which reflects a commitment to the ethics of the social work profession. Compliance with the National Association of Social Workers (NASW) Code of Ethics is expected. Behavior contrary to these ethics will be cause for review of the student’s continuance in accepted status as a social work major. Examples of behavior which will warrant review of accepted standing in the major include but are not limited to: derogatory oral and written statements towards other students, faculty, and/or persons from populations reflecting racial, ethnic, disabled status, religious, soci-economic, gender, and sexual orientation differences; disregard of the principles of confidentiality, etc.
  - b. Behavior – Since the roll of a social worker involves helping people from a variety of backgrounds and with a range of problems, it is important that the social work student not permit personal issues to interfere with this role and that he/she has the emotional and psychological resources to render effective assistance to those in need. In instances where students demonstrate behaviors which suggest that their own difficulties are not sufficiently resolved to be able to help and support others, students may be asked to withdraw from the program.

## **Field Education**

Field education assists students in synthesizing and practicing learned foundational material as generalist social work practitioners. The primary goal of the field sequence is to prepare students for generalist social work practice with individuals, families, groups, and communities. To achieve this end, the field education curriculum is designed to facilitate integration of knowledge, values and skills of the BSW program through practice in an agency setting and a concurrent weekly field instruction seminar at the university.

Field education is a distinguishing feature of the BSW program and is the ‘signature pedagogy’ of the department. This is an essential component of social work education and is anchored in our program’s mission, goals and core competencies.

A student is eligible to apply for admission to the field practicum after having completed all prerequisite courses in addition to the following:

- Junior/Senior status
- Accepted as a Social Work Major
- Received a “C (2.0)” or higher in the pre-social work courses
- Overall GPA of 2.5 in 300 level courses and an overall 2.5 in the required junior level social work courses.
- A positive endorsement for practice from the Generalist Practice course instructor.
- Completed Application Form with personal statement and references.
- The student must possess the basic skills and emotional maturity necessary for working with clients and staff in an internship site.

## **Department of Social Work**

### **Course Descriptions**

#### **SOWK 210 – INTRODUCTION TO GENERALIST SOCIAL WORK PRACTICE**

##### **3 semester hours**

This course introduces students to the profession of social work and the settings in which it is practiced. Emphasis is focused on describing the social work profession and its history, including the educational requirements, values, the National Association of Social Work Code of Ethics, multi-sized systems of practice, career opportunities, licensure requirements, the generalist social work perspective, human diversity, the generalist planned change model and many other major concepts used throughout the curriculum. This course includes 25 hours of volunteer experience that occurs independently of class hours.

**Prerequisites: None**

#### **SOWK 211 – HONORABLE FITNESS: MILITARY CODE OF CONDUCT VS SELF-MORALITY**

##### **3 semester hours**

Students learn how a service member or veteran may struggle to maintain a positive religious or spiritual mindset, after negative active duty service experiences. Students explore how challenging beliefs can hinder the emotional and behavioral stability of a person. Students learn skills for intervening in a variety of practice settings to assist service members and veterans with spiritual fitness.

**Prerequisites: None, permission of the Department Chair**

#### **SOWK 212 – FROM BOOTCAMP TO HOME: EXPLORING VETERAN BENEFITS**

##### **3 semester hours**

Students are introduced to an assortment of veteran education, medical and employment benefits. A transitioning veteran may not know the benefits that they are capable of receiving. Students learn how to inform and guide a veteran to assist with the veteran's new future life planning.

**Prerequisites: SOWK 211 or with permission of the Department Chair**

#### **SOWK 260 – HISTORY OF SOCIAL WELFARE POLICY-1600 to PRESENT**

##### **3 semester hours**

The development of social welfare systems in Western society and diverse cultures is analyzed, with emphasis on issues of economic oppression, social oppression, human rights, and restorative justice.

**Prerequisites: None**

#### **SOWK 313 – HONORING GRIEF LOSS, MOURNING AND RESPECT FOR LIFE VARIETY**

##### **3 semester hours**

Students are introduced to a variety of exposures of grief. The significant daily and life altering impact of a veteran's grief from traumatic experiences are examined. Students learn beginning skills for interceding in diverse practice settings with the veteran grieving population.

**Prerequisites: SOWK 211, SOWK 212 or with permission of the Department Chair**

#### **SOWK 314 – FAMILY VOW: ACKNOWLEDGING FAMILY STRESSORS**

##### **3 semester hours**

Students are introduced to the marital and family stressors of a service member or veteran. The diminished family structure expanding from poor stress management to physical violence are examined. Students learn the initial skills for intervening in an array of direct practice settings with service members and veterans.

**Prerequisites: SOWK 211, SOWK 212, SOWK 313 or with permission of the Department Chair**

### **SOWK 315 - SOCIAL WORK RESEARCH I**

#### **3 semester hours**

This course is designed to provide social work students with a basic understanding of social work research and the connection between research, theory, and practice. Students are introduced to the basic research concepts and research process; including research design, sampling, instrument construction, data collection and qualitative/quantitative analysis, and report writing.

**Prerequisites:** SOWK 210, SOWK 260 and STAT 210 with a minimum grade of C or better; majors only and junior standing; *acceptance as social work major*

**Co-requisites:** SOWK 318, SOWK 320, SOWK 330 and SOWK 370

### **SOWK 318 - WRITING FOR THE SOCIAL WORK PROFESSION**

#### **3 semester hours**

This course students to the study of various forms of written and verbal communication pertinent to social work practice. It is designed as a discipline-specific junior writing course. This course offers students opportunities to practice and master skills in various types of writing, to peer critique the writing of colleagues and to revise their own writing after peer and faculty review.

**Prerequisites:** Junior or senior standing. (Sophomore standing with permission of Department Chair)

**Co-requisites:** SOWK 315, SOWK 320, SOWK 330 and SOWK 370

### **SOWK 320 - HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I**

#### **3 semester hours**

This course takes a social systems approach to presenting, unifying, and integrating concepts and knowledge from a bio-psychosocial-spiritual perspective about human behavior. This course explores development from pregnancy and infancy through early childhood with attention on how individuals, families, organizations, and communities are shaped by life events. This course includes applications to professional practice from the social work literature and to service-learning experiences in a social service setting.

**Prerequisites:** SOWK 210, SOWK 260 and STAT 210 with a minimum grade of C or better; majors only and junior standing; or permission of the Department Chair; *acceptance as social work major*

**Co-requisites:** SOWK 315, SOWK 318, SOWK 330 and SOWK 370.

### **SOWK 321 - HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT II**

#### **3 semester hours**

This course takes a social systems approach to presenting, unifying, and integrating concepts and knowledge from a bio-psychosocial-spiritual perspective about human behavior. This course explores development from middle childhood through late adulthood with attention on how individuals, families, organizations, and communities are shaped by life events. This course includes applications to professional practice from the social work literature and to service-learning experiences in a social service setting.

**Prerequisites:** SOWK 320 with a minimum grade of C or better; majors only and junior standing; *acceptance as social work major*

**Co-requisites:** SOWK 340, SOWK 375 and SOWK 399

### **SOWK 330 - DIVERSITY AND CULTURAL COMPETENCE IN SOCIAL WORK PRACTICE**

#### **3 semester hours**

This course is designed to present concepts and theories for generalist practitioners to assess clients from cultural-general and cultural-specific perspectives, and it provides students with a positive perception of cultural diversity. The most important elements of cultural diversity, understanding and awareness is addressed and examined. The overall goal is to examine the challenges and benefits of diversity and strengthen the possibilities of living and working together in a multicultural society.

**Prerequisites:** SOWK 210 & STAT 210 with a minimum grade of C or better; majors only and junior standing; *acceptance as social work major*

**Co-requisites:** SOWK 315, SOWK 318, SOWK 320 and SOWK 370

**SOWK 340 - (WI) SOCIAL WELFARE POLICY AND SERVICES 3 semester hours**

This course introduces students to a framework for the analysis of social problems and services, and focuses upon the variables that shape human service delivery systems. Application of analytical skills to a social policy is a required component of the course. This course is writing intensive.

**Prerequisites:** SOWK 210 & STAT 210 with a minimum grade of C or better; majors only and junior standing; *acceptance as social work major*

**Co-requisites:** SOWK 321, SOWK 375 and SOWK 399

**SOWK 370 - GENERALIST PRACTICE (MICRO) I: INDIVIDUALS 3 semester hours**

This course is designed to develop beginning professional social work skills, knowledge, and values. Provides an introduction to the generalist approach, systems theory, and planned change process as utilized in work with individuals, families, groups, organizations, and communities. Students acquire skills in: use of self in the helping role; interviewing techniques; client assessments, intervention strategies, evaluation of outcomes; and integration of these skills with knowledge of diverse lifestyles and racial, ethnic, and cultural patterns. This course stresses work with individuals and includes a minimum of two (2) hours a week practicing fundamental interpersonal skills required for effective social work practice, which includes use of video equipment, role-playing exercises, various methods of practicing culturally sensitive generalist social work.

**Prerequisites:** SOWK 210 & STAT 210 with a minimum grade of C or better; majors only and junior standing; *acceptance as social work major*

**Co-requisites:** SOWK 315, SOWK 318, SOWK 320 and SOWK 330

**SOWK 375 - GENERALIST PRACTICE (MEZZO) II: FAMILIES & GROUPS**

**3 semester hours**

This course continues the development of knowledge, skills, and values for beginning generalist social work practice. Work with groups and families are stressed as well as integration of experiences from concurrent junior field placement.

**Prerequisites:** SOWK 370 with a minimum grade of C or better; majors only and juniors standing; *acceptance as social work major*

**Co-requisites:** SOWK 321, SOWK 340, and SOWK 399

**SOWK 395 – SOCIAL WORK SPECIAL TOPICS 3 semester hours**

Selected special topics in social work, which may include controversial issues; domestic violence, spirituality and social work; child welfare, health and mental health issues; substance abuse; social work and the law; gerontology. The topics will reflect current trends in the field of social work. The content may be repeated for credit with different topics with the consent of the department.

**Prerequisites:** Majors only and juniors standing; *acceptance as social work major*

**Co-requisites:** None

**SOWK 399 - FIELD INSTRUCTION I AND SEMINAR 3 semester hours**

In the junior field experience the student is introduced to the realm of social work practice by allowing him/her to shadow a social worker in a variety of practice roles and by participating in various activities that are planned to meet the learning objectives. Through this experience, students learn how to integrate practice behavior with social work knowledge, values and skills. Upon successful completion of the junior year, the student will have attained a beginning understanding of, and integration with the Council of Social Work Education (Educational Policy Accreditation Standards – EPAS) core competencies. Junior year students are in field work two days a week (160 clock hours) during their second semester. This course also includes a weekly seminar to integrate theory to generalist social work practice.

**Prerequisites:** SOWK 315, SOWK 318, SOWK 320, SOWK 330 & SOWK 370 with a minimum of grade of C or better, majors only and junior standing; *acceptance as social work major*

**Co-requisites:** SOWK 321, SOWK 340 and SOWK 375

## **SOWK 415 – BOOTS ON THE GROUND MENTAL HEALTH; LEARNING, DISCUSSING AND RECLAIMING MENTAL STABILITY**

### **3 semester hours**

Students are introduced to an assortment of mental health traumas of service members and veterans. The mental health stability of a service member or veteran can be compromised due to exposure of singular or multiple traumatic events. Students learn strategies and resources to assist service members and veterans to strengthen their mental health firmness.

**Prerequisites:** SOWK 211, SOWK 212, SOWK 313, SOWK 314 or with permission of the Department Chair

## **SOWK 416 – RIGHT HAND RESILIENCE: TRAUMA AND COPING SKILLS**

### **3 semester hours**

Students are introduced to a variety of traumas within the service member and veteran community. Students analyzes how the traumatic experiences are impactful with the service members, veterans and their families. Students commence to assist with learned resources and techniques of this population.

**Prerequisites:** SOWK 211, SOWK 212, SOWK 313, SOWK 314, SOWK 415 or with permission of the Department Chair

## **SOWK 475 - GENERALIST PRACTICE (MACRO) III: COMMUNITIES AND ORGANIZATIONS**

### **3 semester hours**

This course focuses on social work methods for practice with diverse communities and organizations, with an emphasis on the advancement of social justice. The dominant theme of the course addresses how professional social workers practice within these systems and the strategies, tactics, and methods they employ to advance social justice. Students explore basic content pertaining to the values and ethics of macro social work practice, the roles and methods practitioners use in various situations in which organizational practice and community practice and where social action occurs. Students will complete the course with an expanded awareness of organizational practice and community practice and social action and they will establish an initial framework for themselves that will ground their work in generalist practice. This course integrates concurrent field experience, all areas of the social work curriculum, and continued professional growth.

**Prerequisites:** SOWK 375 with a minimum grade of C or better, majors only and senior standing. Social Work Major, completion of all required courses (general education and the professional foundation curriculum) and a cumulative 2.5 grade point average

**Co-requisites:** SOWK 490

## **SOWK 490 - PROFESSIONAL FIELD PRACTICUM I AND SEMINAR - 3 semester hours**

This course provides a 240 clock-hour (minimum) advanced supervised field practicum in selected social work and human service agencies. In addition to the hours spent in the agency, a weekly seminar is held for the purpose of integrating theoretical and experiential information, processing personal experiences, providing assignments relevant to agency work, discussing the nature of agency services, and reviewing student's goals and competencies/practice behaviors. Social Work majors must earn a grade of C or higher.

**Prerequisites:** Social Work Major, completion of all required courses (general education and the professional foundation curriculum) and a cumulative 2.5 grade point average

**Co-requisite:** SOWK 475

## **SOWK 495 - ADVANCED SOCIAL WORK ELECTIVE (Selected Topic in Social Work)**

### **3 semester hours**

This course focuses on selected topics in controversial issues and social work practices that reflect current trends in the field of social work. This course may also provide an interdisciplinary study abroad experience for students to better understand social service planning and delivery in other countries. Students will learn about the cultural, historical and political aspects of the host country through lectures, field trips and student centered activities. The course may be repeated for credit with different topics with the consent of the department.

**Prerequisites:** Majors only and senior standing

**Co-requisites:** SOWK 498, SOWK 499

**SOWK 498 - (WI) SOCIAL WORK SENIOR SEMINAR - 3 semester hours**

This capstone course is the final required course in the social work program curriculum, which emphasizes professional writing skills, ethics, and legal dilemmas for professional generalist social work practice. It is designed as an opportunity for integration of previous learning and assimilation of this learning in a way which is meaningful for each student. This course utilizes a discussion format, with inclusion of minimal lecture, student-facilitated groups, and experiential activities. As a means of individualizing the contents of this course, student will assist in the transaction of this syllabus. This course is writing intensive.

**Prerequisites: Majors only and senior standing**

**Co-requisites: SOWK 499**

**SOWK 499 - PROFESSIONAL FIELD PRACTICUM II AND SEMINAR - 3 semester hours**

This course is the final professional level field education course in the field education sequence, and it provides a 240 clock-hour advanced educational practicum for the students through supervised experience at an approved social service agency. In addition to the hours spent in the agency, a weekly seminar is held for the purpose of integrating theoretical and experiential information, processing personal experiences, providing assignments relevant to agency work, discussing the nature of agency services, and reviewing student's goals and competencies/practice behaviors. The goal of field placement experiences is designed to facilitate student's achieving the social work program competencies. Social Work major must earn a grade of C or higher.

**Prerequisites: SOWK 490, Majors only and senior standing**

**Co-requisites: SOWK 498**

**Department of Social Work  
Social Work Major  
Bachelor of Social Work (BSW)**

		<b>Semester Hours</b>		
		<b>1<sup>st</sup> Sem</b>	<b>2<sup>nd</sup> Sem</b>	<b>Total Hours</b>
<b>FRESHMAN YEAR</b>				
ENGL 110	Composition I	3		3
MATH 112	Basic Mathematics I	3	-	3
HIST xxx	History Menu	3	-	3
ELECTIVE	100/200 Level Elective	3		3
HPER xxx	HPER Menu	2	-	2
ENGL 111	Composition II	-	3	3
MATH 113	Basic Mathematics II	-	3	3
PSYC 101 or PSYC 212	Introduction to Psychology or Human Growth and Development		3	3
BIOL 116	Biological Science w/Lab	-	4	4
ELECTIVE	100/200 Level Elective		3	3
		<b>14</b>	<b>16</b>	<b>30</b>
<b>SOPHOMORE YEAR</b>				
SOWK 210	Introduction to Generalist Social Work Practice	3		3
SOWK 260	History of Social Welfare Policy -1600 to Present	3	-	3
ENGL XXX	English Literature Menu	3	-	3
Global Studies	GE Global Studies Menu	3	-	3
STAT 210	Elementary Statistics (Required for SOWK Major)	3		3
PHIL xxx	Philosophy Elective			
SPEE 214	Introduction to Public Speaking (Required for SOWK Major)	-	3	3
Elective	Unrestricted Elective	-	3	3
Elective	Unrestricted Elective	-	3	3
Elective	Unrestricted Elective	-	3	3
		<b>15</b>	<b>15</b>	<b>30</b>
<b>JUNIOR YEAR</b>				
SOWK 315	Social Work Research I	3	-	3
SOWK 318	Writing for Social Work Profession	3	-	3
SOWK 320	Human Behavior and Social Environment I	3		3
SOWK 330	Diversity and Cultural Competency in SOWK Practice	3	-	3
SOWK 370	Generalist Practice (Micro)I: Individuals	3		3
SOWK 321	Human Behavior and the Social Environment II	-	3	3
SOWK 340	Social Welfare Policy and Services		3	3
SOWK 375	Generalist Practice (Mezzo)II: Families & Groups	-	3	3
SOWK 399	Field Instruction I and Seminar	-	3	3
Elective	Unrestricted Elective	-	3	3
		<b>15</b>	<b>15</b>	<b>30</b>
<b>SENIOR YEAR</b>				
SOWK 475	Generalist Practice (Macro)III: Communities & Organizations	3	-	3
SOWK 490	Professional Field Practicum I and Seminar	3		3
Elective	Unrestricted Elective - 300/400 level recommended	3		3
Elective	Unrestricted Elective - 300/400 level recommended	3		3
Elective	Unrestricted Elective - 300/400 level recommended	3		3
SOWK 495	Advanced Social Work Elective	-	3	3
SOWK 498	Social Work Senior Seminar		3	3
SOWK 499	Prof. Field Practicum II and Seminar	-	3	3
Elective	Unrestricted Elective - 300/400 level recommended		3	3
Elective	Unrestricted Elective - 300/400 level recommended		3	3
<b>Total</b>	<b>120</b>	<b>15</b>	<b>15</b>	<b>30</b>

**DEPARTMENT OF SOCIAL WORK**  
**Social Work Minor**

The Social Work Minor is an interdisciplinary program for undergraduate students who are interested in the field of social work or social services and want more in-depth study in this area. Students must complete all general education core requirements prior to enrollment in the required upper level social work minor courses. Faculty advisors in the Social Work Department or the Academic Center for Excellence are available to help students interested in adding a social work minor to their program of study.

A minimum of 18 semester hours of course work from the following courses are required for the minor.

**Required Courses (9 Credit Hours Total)**

SOWK 210: Introduction to Generalist Social Work Practice	3 credits
SOWK 320: Human Behavior and the Social Environment I	3 credits
SOWK 340: Social Welfare Policy and Services	3 credits

**Social Work Advanced Courses and/or Electives from the following list (9 Credit Hours Total):**

SOWK 211: Honorable Fitness: Military Code of Conduct vs Self Morality	3 credits
SOWK 212: From Bootcamp to Home: Exploring Veteran Benefits	3 credits
SOWK 260: History of Social Welfare Policy – 1600 to Present	3 credits
SOWK 313: Honoring Grief Loss, Mourning and Respect for Life Variety	3 credits
SOWK 314: Family Vow: Acknowledging Family Stressors	3 credits
SOWK 315: Social Work Research I	3 credits
SOWK 318: Writing for Social Work Profession	3 credits
SOWK 321: Human Behavior and the Social Environment II	3 credits
SOWK 330: Diversity and Cultural Competence in Social Work Practice	3 credits
SOWK 375: Generalist Practice (Mezzo)II: Families & Groups	3 credits
SOWK 415: Boots on the Ground Mental Health	3 credits
SOWK 416: Right Hand Resilience: Trauma and Coping Skills	3 credits
SOWK 475: Generalist Practice (Macro)III: Communities & Organizations	3 credits
SOWK 495: Advanced Social Work Elective	3 credits

**DEPARTMENT OF SOCIAL WORK**  
**Homefront Readjustment for the Armed Forces Minor/Certificate**

This minor/certificate is designed for undergraduate students and professionals in interdisciplinary fields who wish to develop specific knowledge of military culture and communities, and acquire the skills to interact in community settings where the needs of veterans and their families are met. All students in this minor/certificate program are considered undergraduate.

Current matriculating students and non-matriculating students may enroll in the minor/certificate program:

- Matriculating students can complete the certificate in a minimum of 9 to 18 months.
- Non-matriculating students can complete the certificate in a minimum of 12 to 24 months.

**Admission Requirements**

- **Matriculating students:**
  - Completion of 60 credit hours and a cumulative GPA of 2.5 or better.
  - Students must declare Homefront Readjustment for the Armed Forces as a minor by completing the Minor Request Form and submitting the completed paperwork to the Registrar's Office.
  
- **Non-Matriculating students:**
  - Students must apply for the Certificate Program through the Transfer Admissions Office.
  - Completion of 60 credit hours and a cumulative GPA of 2.5 or better.
  - Student's with a bachelor's degree from a regionally accredited institution must have achieved a cumulative GPA of 2.5 or better. Students with a bachelor's degree and a cumulative GPA above 2.3 may petition the Department Chair for a waiver of the cumulative 2.5 GPA requirement.
  - Official transcripts from all colleges and universities attended. Applicants do not need to send in transcripts for courses taken at Virginia State University.
  - Submit a carefully written 1,000 word goal statement outlining background and experience (academic and/or professional), and future career goals after the completion of the certificate. Applicants who do not hold a social work undergraduate degree must indicate how their academic and/or professional background has prepared them for admission to the certificate program.
  - TOEFL scores are required for international applicants (minimums).

**Curriculum Requirements**

Students are required to take all of the courses listed below, a total of 18 credits.

SOWK 211	Honorable Fitness: Military Code of Conduct vs Self-Morality	3 credits
SOWK 212	From Bootcamp to Home: Exploring Veteran Benefits	3 credits
SOWK 313	Honoring Grief: Loss, Mourning and Respect for Life Variety	3 credits
SOWK 314	Family Vow: Acknowledging Family Stressors	3 credits
SOWK 415	Boots on the Ground Mental Health: Learning, Discussing, and Reclaiming Mental Stability	3 credits
SOWK 416	Right Hand Resilience: Trauma and Coping Skills	3 credits
<b>TOTAL</b>		<b>18 credits</b>

**Other Departmental Information**

Students may participate and assume leadership positions in the following departmental organizations sponsored by the department:

**Phi Alpha - Theta Beta Chapter - National Social Work Honor Society**  
**BSW Social Work Club**  
**National Association of Black Social Workers**

## **DEPARTMENT OF SOCIOLOGY AND CRIMINAL JUSTICE**

- Chairperson:** Joyce Moody Edwards,  
Colson Hall, Room 201E  
(804) 524 5511/5512
- Professors:** C. Nana Dery, James Hodgson, Mokerrom Hossain, Zacchaeus Ogunnika
- Associate Professors:** Ghyasuddin Ahmed, Joyce M. Edwards, Z. Spencer, Isis Walton
- Assistant Professors:** Gwendolyn V. Andrews, Nishaun T. Battle, Nadjhia Normil
- Instructor:** Makeda Carr

### **Description of the Department**

The Department of Sociology and Criminal Justice offers undergraduate degrees in three areas, and these areas are: Sociology and Criminal Justice. These programs prepare students for a wide range of career options in the broad dimensions of teaching, practice, and research. Majors are educated for maximum flexibility, with emphasis on developing communications, data analysis skills, and the ability to think critically.

The Sociology curriculum offers general education on different major aspects of sociological knowledge. Majors in sociology are prepared for graduate and professional schools and for direct entry into administrative positions in the major corporate and public sectors; positions in social research, social services, business, teaching, and the military. Students whose objectives are law, ministry, business management, higher education, politics, government, and the military will be uniquely qualified for success in graduate and professional schools upon completion of this baccalaureate program.

In an effort to address the University's mission to provide viable and complementary minors for students, the Sociology Program offers a minor. The courses in the minor are designed to serve as a complementary area of study that will enhance practice in most disciplines and professions. All sociology majors are required to declare a minor.

This department also offers Bachelor of Science in Criminal Justice. Criminal Justice is a discipline dedicated to studying how the criminal justice system (police, courts, and corrections) utilizes social control measures in dealing with criminal behavior. A Criminal Justice major provides students with a comprehensive, broad-based liberal arts education and an exposure to seven major fields of criminal justice; juvenile justice, law enforcement, corrections, court procedures, criminal law, forensic investigation, and criminal justice research.

### **Mission of the Department**

The mission of the Department is to provide students with a liberal arts education through which they acquire skill in abstract logical thinking, historical consciousness, knowledge and skills of science and scientific inquiry, knowledge of values and their relationship to a variety of life situations, knowledge of international and multicultural phenomena, and experience with in-depth study.

We endeavor to provide curricula and other types of educational experiences through which students will acquire increasingly complex knowledge, the abilities and the technological skills to apply that knowledge to a wide range of situations and conditions in careers, professions and in their personal lives.

## Objectives of the Department

The objectives of the Department are:

- To provide a broad liberal arts education.
- To enhance the competence of students in writing skills, verbal communication, analytical ability, and research skills.
- To provide opportunities to apply contemporary technology to issues in the disciplines.
- To provide students with leadership opportunities through exposure to professional development activities and the availability of collegiate chapters of honors and professional organizations.
- To provide a required internship in Criminal Justice.
- To prepare majors for graduate, law, or other advanced professional education.
- To prepare students for entry level professional positions in their fields by exposing them to a broad selection of course work in the selected discipline.
- To provide general education service courses for majors from other disciplines.

## Majors in the Department

Bachelor of Arts Degree:	Sociology
Bachelor of Science Degree:	Criminal Justice
Master of Science:	Criminal Justice (see graduate catalog for program description)

**Minor in the Department:     Sociology**

## Other Department Information

**ALL SOCIOLOGY MAJORS ARE REQUIRED TO DECLARE A MINOR.**

Students may participate and assume leadership positions in the following departmental organizations sponsored by the department:

Alpha Kappa Delta – International Sociology Honor Society  
Alpha Phi Sigma – National Criminal Justice Honor Society  
Lambda Alpha Epsilon – American Criminal Justice Association  
National Association of Blacks in Criminal Justice  
National Association of Black Social Workers

## **SOCIOLOGY**

### **Course Descriptions**

#### **SOCI 101 INTRODUCTION TO SOCIOLOGY - 3 semester hours**

Students are taught the fundamental concepts and principles of sociology. Emphasis is on the empirical and theoretical bases of sociology, social structure, the variety of influences and pressures that help make individuals a part of society, the nature of social research, and the use of the sociological perspective in understanding social interaction. This course is required for all sociology majors.

#### **SOCI 102 INTRODUCTION TO ANTHROPOLOGY - 3 semester hours**

The study of evidence of human evolution, developing cultures, racial groupings and people in preliterate societies.

#### **SOCI 201 SOCIAL PROBLEMS - 3 semester hours**

A survey course that deals with the problems that characterize United States society. Focus is on understanding the social forces, movements, policies, and changes in identification of and response to social problems of the society, and the theories that attempt to explain these phenomena.

#### **SOCI 208 SOCIOLOGY OF THE AFRICAN AMERICAN EXPERIENCE - 3 semester hours**

An examination of African Americans in the United States as a social group. Focus is on the socio-historical developments and current trends in the experiences of African Americans with equal attention given to developmental experience on the continent of Africa prior to colonization, the transportation of Africans to the "New World," enslavement, and experiences up to the 21st century.

**Prerequisite: SOCI 101**

#### **SOCI 214 PSYC 214 SOCIAL PSYCHOLOGY - 3 semester hours**

An introduction to the concepts and theories that attempt to explain the behavior of the individual in society. Major topics include culture and personality, social roles, leadership, prejudice and propaganda. Review and analysis of current concepts and experimentation in the field are also included.

#### **SOCI 220 BLACK SOCIAL THOUGHT– 3 semester hours**

This course is an examination of the nontraditional intellectual ideas, thoughts and philosophies of black intellectuals throughout the African Diaspora as they relate to the wider venue of global sociological thinking.

**Prerequisite: SOCI 101 - Introduction to Sociology**

#### **SOC 302 MARRIAGE AND FAMILY - 3 semester hours**

This course focuses on the family as a social institution, its development, functions and change in the United States and other societies. Changing values, gender roles, marital choice, socialization, and the effects of contemporary social change on the family, as we know it is studied.

**Prerequisite: SOCI 101 - Introduction to Sociology**

#### **SOCI 304 RACE AND ETHNIC RELATIONS - 3 semester hours**

A study of the status of the various racial, religious, and ethnic minority groups in American society. Focus is on the forces relevant to establishment and maintenance of patterns domination and subordination between racial and ethnic groups. Critical analysis is made of discrimination, segregation, exploitation, hostility, and feelings of cleavage. American race and ethnic relations will be compared with those in other major societies.

**Prerequisite: SOCI 101 - Introduction to Sociology**

**SOCI 311 SOCIAL MOVEMENTS AND SOCIAL CHANGE - 3 semester hours**

The study of the effects of collective behavior on social structure. The factors and processes of social change are studied from the position of various theorists and theories of contemporary society.

**Prerequisite: SOCI 101 - Introduction to Sociology**

**SOCI 314 SOCIOLOGY OF RELIGION - 3 semester hours**

The study of religion in terms of belief systems, practices, and its functioning as a social institution. Major theoretical perspectives on religion in its function as an agent of social change, in maintaining the social status quo, and in the lives of individuals and societies are emphasized. The major world religions are surveyed from sociological perspectives.

**Prerequisite: SOCI 101 - Introduction to Sociology**

**SOCI 317 METHODS OF SOCIAL RESEARCH - 3 semester hours**

The logic, design and use of social research. Major emphasis is on social research techniques and procedures, the relationship between theory and research, and use of quantitative data analysis techniques. The structure and use of qualitative research techniques are also examined.

**Prerequisite: SOCI 101 - Introduction to Sociology**

**SOCI 318 SOCIOLOGICAL THEORY - 3 semester hours**

The study of the works of major theorists whose works constitute the foundation of the discipline of sociology. The social impact of the major theoretical perspectives in contemporary sociology and the relationship of theory to research are included.

**Prerequisites: SOCI 101 and 6 additional hours of sociology courses.**

**SOCI 325 SOCIOLOGY OF HEALTH AND ILLNESS – 3 semester hours**

This course examines the social contexts of health, illness, and medical care. It gives prominence to the debates and contrasting perspectives which characterize the field of medical sociology. Topics include the social, environmental, and occupational factors in health and illness, the politics surrounding health care and the patient's perspectives on illness.

**Prerequisite: SOCI 101 – Introduction to Sociology**

**SOCI 333 SOCIOLOGY OF THE MEDIA – 3 semester hours**

This course is designed to analyze and critique the social, political, cultural, economic, and historic roots of the media industry from a sociological perspective. It frames the media as the business of disseminating information, ideas, and promoting forms of “entertainment” that ultimately shape public perception and social interaction.

**Prerequisite: SOCI 101 - Introduction to Sociology**

**SOCI 344 RURAL SOCIOLOGY – 3 semester hours**

This course introduces students to rural social structures and institutions in American society. It emphasizes the differences and the similarities in rural and urban communities, leisure and recreation, family life belief systems and social problems.

**Prerequisite: SOCI 101- Introduction to Sociology**

**SOCI 352 URBAN ISSUES - 3 semester hours**

The factors and forces that result in development and change of and within urban environments are studied. Emphasis is on critical analysis of the types and sources of issues that characterize urban life and urban areas in the United States. Policies and group efforts aimed at addressing these issues will also be examined.

**Prerequisite: SOCI 101 - Introduction to Sociology**

**SOCI 356 POPULATION ISSUES - 3 semester hours**

The determinants and consequences of trends in population size and composition, distribution through fertility, mortality, and migration are examined. Theoretical perspectives on population growth and change and the consequences for nations as well as for individuals are also studied.

**Prerequisite: SOCI 101 - Introduction to Sociology**

**SOCI 362 JUVENILE DELINQUENCY - 3 semester hours**

Development and change of general values, attitudes, and social policy related to children. Parenting practices, the nature and extent of juvenile delinquency, theories of childhood, delinquency and the delinquent are studied, with special emphasis on the juvenile justice system in the USA.

**Prerequisite: SOCI 101 - Introduction to Sociology**

**SOCI 365 SOCIOLOGY OF DEVELOPING SOCIETY – 3 semester hours**

This course is an examination of the social institutional structure of developing societies in Africa, Asia, the Middle East and Latin America. It includes a discussion and analysis of systems and social life as well as the impact of western and other cultural influences on social change these societies.

**Prerequisite: SOCI 101 - Introduction to Sociology**

**SOCI 370 AFRICAN AMERICAN WOMEN IN SOCIETY - 3 semester hours**

This course will examine the political, economic and social roles of African American women in the United States. Special emphasis is placed on such topics as the myths and realities of gender identity for African American women, family life and the challenges posed by black feminism, work patterns, organizational activities, and cultural production. Through these means it will explore the interrelationship between race, ethnicity, class, and gender.

**Prerequisite: SOCI 101 - Introduction to Sociology**

**SOCI 411 COMPARATIVE SOCIAL INSTITUTIONS - 3 semester hours**

The effects of industrialization, urbanization and population dynamics on the structure and functions of social institutions are studied. Major theories of social structure and the linkages between institutions are included. Special emphasis is placed on the economic, political and religious institutions and their ideologies as casual influences in the lives of individuals and in societies.

**Prerequisites: 9 hours of sociology, including SOCI 318 - Sociological Theory**

**SOCI 413 SOCIAL STRATIFICATION - 3 semester hours**

The study of the development, maintenance and change of institutionalized patterns of differential access to wealth, status, and power within the United States. Major social theories that attempt to explain the existence, constancy, and change of social inequality are emphasized.

**Prerequisite: 9 hours of sociology, including SOCI 318 - Sociological Theory**

**SOCI 414 SOCIOLOGY OF WORK - 3 semester hours**

A survey course that provides intensive study of the occupational structure, occupations, labor force composition and participation, and work settings. Attention will be given to the linkages between government, business, and employee organizations. Theories that attempt to account for the structure and change of and within the occupational structure and the effects of these phenomena for individuals and groups will also be examined.

**Prerequisites: Nine (9) semester hours of sociology**

**SOCI 419 APPLIED RESEARCH METHODS – 3 semester hours**

An advanced-level research methods course that is designed to give students practical experience in applying core concepts acquired in SOCI 317 (Methods of Social Research) in order to execute developed proposals and conduct social research.

**Prerequisite: SOCI 317 – Methods of Social Research**

**SOCI 420 SENIOR SEMINAR - 3 semester hours**

This course provides the experiences necessary for students to integrate and synthesize the knowledge and skills gained through successful completion of the sociology program of study. Readings, discussion, and written papers incorporating both quantitative and qualitative research methods on selected problems and issues in sociology are required. Topics include the various subdivisions within sociology with particular emphasis on the relationship of theory and research, social structure and social change, and the work of African American sociologists.

**SOCI 420 SENIOR SEMINAR - 3 semester hours**

This course provides the experiences necessary for students to integrate and synthesize the knowledge and skills gained through successful completion of the sociology program of study. Readings, discussion, and written papers incorporating both quantitative and qualitative research methods on.

**SOCI 430 Independent Study – 1-6 semester hours (variable credit)**

Provides the student an opportunity to explore “in-depth” an area which the student encountered in a previous course or an area which is not part of the curriculum in Sociology. May be repeated for credit.

**Prerequisite: Approval of the Department Chair**

**SOCI 455 SPECIAL TOPICS IN SOCIOLOGY – 3 semester hours**

This course is a Sociology Elective that will focus on a special topic and/or current specific interests, trends, ideological shifts, research, and publications that relate to the field and discipline of Sociology. May include Study Abroad.

**Prerequisite: Jr/Sr Level**

## **CRIMINAL JUSTICE Course Descriptions**

### **CJUS 116 INTRODUCTION TO CRIMINAL JUSTICE - 3 semester hours**

Provides an overview of the criminal justice system. This overview includes the history of the system and the major processes that are carried out by the different agencies of the criminal justice system. It describes the process of arrest, adjudication, corrections and release.

### **CJUS 210 INTRODUCTORY STATISTICS FOR CRIMINAL JUSTICE - 3 semester hours**

Introduces basic statistics needed to understand contemporary criminal justice research and to conduct descriptive and inferential statistical analysis. Also students will learn measures of associations. A prerequisite for CJUS 317 Research Methods for Criminal Justice.

**Prerequisites:** CJUS 116; GEMA 112, 113

**Co-requisite:** CJUS 211

### **CJUS 211 SPSS FOR CRIMINAL JUSTICE/LAB - 1 semester hour**

Introduces basic principles of SPSS used in social science research. Must be taken in conjunction with CJUS 210 Introductory Statistics for Criminal Justice.

**Co-requisite:** CJUS 210

### **CJUS 212 AMERICAN LAW ENFORCEMENT SYSTEM AND PRACTICES - 3 semester hours**

Introduces the local, national, and federal major law enforcement agencies of the country. It includes history, overview of the functioning, and an assessment of law enforcement agencies. It covers the process of recruitment, training, promotion, and other pertinent issues related to community control and police brutality.

### **CJUS 217 INTRODUCTION TO THE JUVENILE JUSTICE SYSTEM - 3 semester hours**

Surveys the development, structure and functioning of the juvenile justice system. Emphasis is on the procedures employed in the apprehension, detention and handling of juveniles by the police, the courts, and other agencies in the juvenile justice system. Review of recent developments in juvenile rehabilitation is included.

### **CJUS 230 CRIMINAL INVESTIGATION - 3 semester hours**

Offers an introductory overview of major investigative procedures generally followed by the local, national, and federal agencies of the country. Students will know more about police detective work and FBI investigations.

### **CJUS 250 COURT SYSTEM AND PRACTICES - 3 semester hours**

Reviews the federal and state court systems including the history of the court systems. The procedures for the appointment of justices and judges, and the actual operations and practices of the courts will be examined. Other pertinent court related issues such as plea bargaining sentence disparities and the future of the courts will be examined.

### **CJUS 255 INTRODUCTION TO CORRECTIONS 3 semester hours**

The course examines the origin and historical underpinnings of the modern correctional system. Students will explore the philosophies of retribution, incapacitation, deterrence, and rehabilitation. The course will also focus on issues facing correctional facilities today including issues of race, gender, gangs, aging inmates, and AIDS.

**Prerequisites:** CJUS 116

### **CJUS 260 DRUGS, CRIME AND THE CRIMINAL JUSTICE SYSTEM - 3 semester hours**

Examines effects of illicit drug abuse in the country and examines its relationship to violence, crime, and the criminal justice system. It provides an overview of drug abuse in an historical and social context primarily in the United States.

**CJUS 315 TERRORISM - 3 semester hours**

Offers the background students need to understand major issues in terrorism and offers in-depth coverage of domestic and international terrorism. It also reviews the controversial aspects of counter-terrorist policies and actions.

**CJUS 317 RESEARCH METHODS FOR CRIMINAL JUSTICE - 3 semester hours**

Emphasis is on social research techniques and procedures, the relationship between theory and research, and the use of quantitative data analysis techniques. The structure and use of qualitative research techniques are also examined.

**Prerequisites:** SOCI 101; CJUS 116; CJUS 210

**CJUS 320 PRIVATE SECURITY SYSTEM AND PRACTICES - 3 semester hours**

Introduces the ever-growing field of private and industrial security systems emerging in the country. It includes recruitment, training, operational and administrative practices used by different security systems. It will examine physical security arrangements, and the pros and cons of in-house and contract security systems.

**CJUS 335 CONTEMPORARY PROBLEMS IN POLICING - 3 semester hours**

Examines the social and political dynamics under which police personnel perform their duties. Discretionary decision-making and the legal, social and institutional contexts in which they work are also considered. Application of interpersonal theories and concepts to police problems and practices will be included.

**CJUS 345 CRIMINAL LAW AND EVIDENCE - 3 semester hours**

Provides an introduction to the nature and dynamics of the criminal law of the country and also provides an understanding of the importance of evidence in a criminal case. Virginia substantive law will be discussed, including classification and analysis of selected offenses.

**Prerequisites:** CJUS 116 and CJUS 250

**CJUS 360 CRIMINOLOGY AND THEORIES OF CRIME - 3 semester hours**

Examines theories of crime, criminal behavior and the social, cultural and psychological factors in crime causation, control and treatment; includes an analysis of criminal behavior.

**Prerequisites:** CJUS 116; CJUS 212, and CJUS 217

**CJUS 361 VICTIMOLOGY - 3 semester hours**

Explores the scope of victim issues in American society. Reviews the programs and services provided for victims of crime. The expanding roles of the courts, police, battered women shelters, victim/witness assistance programs, crisis intervention units and legislation are highlighted.

**CJUS 364 SOCIOLOGY OF CORRECTIONS - 3 semester hours**

Evaluates the effectiveness of correctional institutions, their development, functioning and change. Theories that influenced the development of corrections programs and agencies are included with emphasis on current direction in law, policy, research and practice.

**CJUS 365 POLICE ORGANIZATION AND MANAGEMENT****3 semester hours**

Examines major concepts of organization and management as these relate to law enforcement. Formulation of policies and procedures in the optimum utilization of personnel and financial resources is considered. It shows how to apply police research and contemporary management principles to today's complex police organization.

**Prerequisite:** CJUS 116 Introduction to Criminal Justice

**CJUS 380 CRIMINAL PROCEDURES - 3 semester hours**

Examines the court procedures generally followed in the country. It includes a survey of the exclusionary rule and probable cause; arrests, search and seizures; identification and interrogation; constitutional rights and rules during trial; and legal liabilities of law enforcement officers.

**CJUS 410 CRIMINAL JUSTICE DATA MANAGEMENT****3 semester hours**

Emphasizes real world data sets and management including data analysis techniques.

**Prerequisite: CJ Senior standing****CJUS 415 INTRODUCTION TO FORENSIC INVESTIGATION - 3 semester hours**

Introduces forensic investigation to the students. It includes a review of the application of different forensic techniques to the resolution of criminal issues. It reviews the different aspects of forensic science, including fingerprinting, casting, document examination, and photography. The laboratory complements the lecture portion of the course.

**Prerequisite: CJ Senior standing****Co-requisite: CJUS 415 Lab****CJUS 415 FORENSIC INVESTIGATION LABORATORY - 1 semester hour****Co-requisite: CJUS 415****CJUS 420 SENIOR SEMINAR IN CRIMINAL JUSTICE - 3 semester hours**

Provides an opportunity to integrate and synthesize the knowledge and skills gained through successful completion of the criminal justice program of study. Readings, discussions, and written papers incorporating both quantitative and qualitative research methods on selected problems and issues in criminal justice required. Students will be required to write a final paper and make a formal presentation. The paper will be reviewed and accepted by the departmental Senior Seminar Paper Review Committee.

**Prerequisite: CJ Senior standing****CJUS 425 COMPARATIVE CRIMINAL JUSTICE SYSTEMS - 3 semester hours**

Provides a worldview of cultural and legal traditions that are related to crime. This course will also discuss philosophies, practices and institutions of selected countries.

**CJUS 430 CRIMINAL JUSTICE PRE- INTERNSHIP - 2 semester hours**

Provides students with career preparation and prepares students for field internships. Different agency representatives will visit the class and will give lectures about their respective agency activities, their expectations, and future career possibilities. During this semester students must finalize their CJUS 432 Internship placement. Students will make applications and will complete background checks, if any, so that the following semester they can start their internship without any delay. Students will learn more about criminal justice careers and learn how to present themselves professionally to prospective employers.

**Prerequisite: CJ Junior standing****CJUS 431 VIOLENCE AND THE VIOLENT OFFENDER - 3 semester hours**

Examines issues relating to violence in today's society as they impact the violent offender. Reviews myths about violence, victim-offender characteristics and relationships, and theories of violence. It also examines contemporary schools of thought on violence.

**CJUS 432 CRIMINAL JUSTICE INTERNSHIP - 4 semester hours**

Course requirements are two fold-class and agency participation. Supervised placement with one or more federal, state or local criminal justice organizations or facilities involved in the arrest, adjudication, correction or release of either juvenile or adult offenders. Enables students to gain meaningful field experience related to their future careers. Students will complete 200 hours of internship at the agency.

**Prerequisite: CJ Senior standing**

**CJUS 433 HIGH-TECH CRIME - 3 semester hours**

Reviews the criminal issues related to the violation of Internet and web technology crimes where innocent users become victims.

**CJUS 434 ORGANIZED CRIME - 3 semester hours**

Reviews the past and present of organized crime. It includes topics such as the business of organized crime, hierarchy in organized crime, organized crime in labor and global connections. Also reviews political and law enforcement responses towards organized crime.

**CJUS 436 WHITE COLLAR CRIME - 3 semester hours**

Examines white-collar crimes, such as commercial fraud and embezzlement, as well as computer fraud and corporate piracy. Reviews applicable laws with special emphasis on practical aspects of investigation and prosecution of white collar crime.

**CJUS 440 MINORITIES AND THE CRIMINAL JUSTICE SYSTEM - 3 semester hours**

Provides an in-depth look at the theory and practice of criminal justice on crime, race, ethnicity, and justice. It offers insight into minority criminality and criminal victimization while addressing the less than objective criminal justice system processing of minority defendants and felony crime arrestees. It will elucidate what is fact and myth in the system controversies that surround minority criminality, criminal victimization, criminal profiling, and the criminal justice system.

**CJUS 449 INDEPENDENT STUDIES IN CRIMINAL JUSTICE - 3-6 semester hours**

Requires completion of independent studies and research under faculty direction and supervision. Registration upon approval of the departmental chair.

**CJUS 494 SPECIAL TOPICS IN CRIMINAL JUSTICE – 3 semester hours**

Variable content. Selected special topics in criminal justice, which may include controversial issues, gangs, ethics, or female offenders. The topics will reflect current trends in the field of criminal justice and the expertise of the faculty. This course may be repeated for credit with different topics with the consent of the department.

**DEPARTMENT OF SOCIOLOGY AND CRIMINAL JUSTICE**  
**Sociology**  
**Bachelor of Arts**

		<b>SEMESTER HOURS</b>		
		<b>1st</b>	<b>2nd</b>	<b>Total</b>
<b>FRESHMAN YEAR</b>		<b>Sem</b>	<b>Sem</b>	<b>Hours</b>
ENGL 110, 111	Composition I & II	3	3	6
MATH	GE Math Menu	3	3	6
HISTORY	GE History Menu	-	3	3
HPER	GE HPER Menu	2	-	2
SOCI 101	Intro to Sociology	3	-	3
SOCI	Elective - 100/200 Level	-	3	3
SOC SCIENCE	GE Social Science Menu	-	3	3
UNRESTRICTED	Elective	3	-	3
		<b>Total</b>	<b>14</b>	<b>15</b>
				<b>29</b>
<b>SOPHOMORE YEAR</b>				
LANG	Lang Menu	3	3	6
GLOBAL STUDIES	GE Global Studies Menu	-	3	3
HUMANITIES	GE Humanities Menu	3	-	3
SCIENCE	GE Science Menu	4	-	4
SOCI 201	Social Problems	-	3	3
SOCI 208	Soc. African Amer Ex	-	3	3
SOCI	Elective	3	-	3
ENGL	GE Literature Menu	3	-	3
RESTRICTED	Minor	-	3	3
		<b>Total</b>	<b>16</b>	<b>15</b>
				<b>31</b>
<b>JUNIOR YEAR</b>				
SOCI 302	Marriage & Family	3	-	3
SOCI 304	Race & Ethnic Relations	3	-	3
SOCI 317	Methods of Social Research	3	-	3
SOCI 318	Sociological Theory	3	-	3
SOCI 356	Population Issues	-	3	3
SOCI	Elective	3	3	6
RESTRICTED	Minor	-	9	9
		<b>Total</b>	<b>15</b>	<b>15</b>
				<b>30</b>
<b>SENIOR YEAR</b>				
SOCI 419	Applied Research Methods	3	-	3
SOCI 420	Senior Seminar	-	3	3
UNRESTRICTED	Electives	9	6	15
RESTRICTED	Minor	3	3	6
HIST/POLI/PSYC/ECON		-	3	3
		<b>Total</b>	<b>15</b>	<b>15</b>
				<b>30</b>
				<b>Total</b>
				<b>Hours</b>
				<b>120</b>

**DEPARTMENT OF SOCIOLOGY AND CRIMINAL JUSTICE SOCIOLOGY MINOR**

The Sociology Minor will require six (6) courses – Eighteen (18) semester credits

**PREREQUISITES (6 semester credits)**

SOCI 101 - Introduction to  
Sociology SOCI 201 - Social  
Problems

**REQUIRED UPPER-DIVISION COURSES (6 semester credits)**

SOCI 317 – Methods of Social Research  
SOCI 318 – Sociological Theory

**ELECTIVES (6 semester credits)**

Choose from the list of any 300-400 level Sociology courses

**DEPARTMENT OF SOCIOLOGY AND CRIMINAL JUSTICE**  
**Criminal Justice**  
**Bachelor of Science**

		<b>Semester Hours</b>		
		<b>1st</b>	<b>2nd</b>	<b>Total</b>
		<b>Sem</b>	<b>Sem</b>	<b>Hours</b>
<b>FRESHMAN YEAR</b>				
HPER	GE Health/Wellness Menu	2	-	2
ENGL 110, 111	Composition I, II	3	3	6
MATH	GE Math Menu	3	3	6
CJUS 116	Intro to Criminal Justice	3	-	3
CJUS 212	American Law Enforcement	-	3	3
SCIENCE / LAB	GE Science & Lab Menu	-	4	4
SOCIAL SCIENCE	GE Social Science Menu	-	3	3
HISTORY	GE History Menu	3	-	3
<b>Total</b>		<b>14</b>	<b>16</b>	<b>30</b>
<b>SOPHOMORE YEAR</b>				
CJUS 210	Intro to Statistics for CJ	3	-	3
CJUS 250	Court System & Practice	3	-	3
CJUS 255	Introduction to Corrections	-	3	3
CJUS	Elective	-	3	3
ENGL	GE Literature Menu	-	3	3
HUMANITIES	GE Humanities Menu	3	-	3
GLOBAL STUDIES	GE Global Studies Menu	3	-	3
TECHNOLOGY	GE Technology Menu	-	3	3
UNRESTRICTED	Elective	-	3	3
UNRESTRICTED	Elective	3	-	3
<b>Total</b>		<b>15</b>	<b>15</b>	<b>30</b>
<b>JUNIOR YEAR</b>				
CJUS 317	Research Methods for CJ	3	-	3
CJUS 360	Criminology & Theories of Crime	3	-	3
CJUS 430	Pre-Internship	-	2	2
CJUS	Elective	3	-	3
CJUS	Elective	-	3	3
UNRESTRICTIVE	Elective	6	-	6
UNRESTRICTIVE	Elective	3	-	3
UNRESTRICTIVE	Elective	-	9	9
<b>Total</b>		<b>15</b>	<b>14</b>	<b>29</b>
<b>SENIOR YEAR</b>				
CJUS 420	Senior Seminar	3	-	3
CJUS 432	Criminal Justice Internship	4	-	4
UNRESTRICTIVE	Elective	9	-	9
UNRESTRICTIVE	Elective	-	15	15
<b>Total</b>		<b>16</b>	<b>15</b>	<b>31</b>
				<b>Total Hours 120</b>

# College of Natural and Health Sciences

**Dean:** Larry Brown  
161 W Hunter McDaniel  
(804) 524-1162

The College of Natural and Health Sciences is committed to providing a dynamic and stimulating learning environment where a combination of classroom instruction and laboratory work prepares students for the global nature of the biological, chemical, psychological, and health professions. The College houses undergraduate programs that educate students to become professionals who are able to adapt to societal change, to communicate effectively and to be highly trainable. Whether students major in Biology, Chemistry, Psychology or Minor in Secondary Education they benefit from a curriculum that features in-depth major courses and substantial training in mathematics, physical sciences, social sciences and the humanities.

**The College of Natural and Health Sciences is comprised of the following departments:**

- Biology
- Chemistry
- Nursing
- Psychology

## **Mission of the College**

The mission of the College of Natural and Health Sciences is to provide quality undergraduate and graduate education in the natural sciences, psychology and nursing; and to produce graduates who are well prepared to practice in their field of study and/or to pursue advanced education.

## **Objectives of the College**

The primary objectives of the school are:

- To maintain and continually strive to improve the quality of instruction in all academic areas.
- To prepare students to enter professional careers in the public and private sectors or to continue their education beyond the baccalaureate level in professional or graduate school.

## DEPARTMENT OF BIOLOGY

**Chairperson:** Paul Kaseloo  
Owens Hall Room 102  
(804) 524-5022

**Professors:** Larry Brown, Brian Sayre

**Associate Professors:** Christian D'Orgeix, M. Omar Faison, Paul Kaseloo, Glenn Harris,  
Sherman Ward, Leslie Whiteman, Sarah M. Witiak

**Assistant Professors:** Xianfa Xie, Andrea Beyer

The Department of Biology offers courses leading to the Bachelor of Science degree. The department seeks to provide students with a common background to prepare them for future careers including education, research, medicine, dentistry, pharmacy, podiatry, optometry, physical therapy, and veterinary science. We offer a wide variety of courses taught by dedicated and experienced faculty. Faculty members of the department hold advanced degrees from a diverse set of backgrounds and have a long and productive history in conducting state-of-the-art biological research. Biology faculty members are actively engaged in mentoring students, heading programs that focus on student success and also participating in student clubs and organizations.

### **Mission of the Department**

The mission of the Department of Biology is to educate students to be knowledgeable about the organization and function of biological systems, to be proficient in the best practices of science, and to be aware of the prominent role of science in discussions of the environment and society. We believe that the study of biology provides an appropriate foundation for an informed perspective towards the world. We seek to provide opportunities and guidance for students to consistently achieve excellence and to instill in our students a motivation to become future leaders in their fields.

### **Objectives of the Department**

Graduates of the Biology Bachelor of Science program will be able to:

1. Demonstrate a firm grasp of biological principles and their application in the workplace or biology related graduate or professional programs.
2. Demonstrate competency in the application of technology, including, but not limited to, scientific instrumentation and presentation software.
3. Apply critical thinking skills to successfully solve biology related problems.
4. Demonstrate the skills necessary for life-long learning and professional success.

### **Student Organizations**

Minority Association of Premedical Students (MAPS)

Biology Club

Tri-Beta

VSU Beta Kappa Chi

## **BIOLOGY**

### **Course Descriptions**

#### **BIOL 116 BIOLOGICAL SCIENCE - 4 semester hours**

Covers fundamental biological concepts and processes of living organisms. Designed to familiarize the student with relevance of science in their everyday lives. Topics stressed will include: scientific inquiry, chemistry and cells, reproduction, development, genetics, evolution and adaptation, and ecology. Course integrates science processing (laboratory) skills with lecture.

This course does not serve as a prerequisite for any other biology course.

#### **BIOL 120 PRINCIPLES OF BIOLOGY I - 3 semester hours**

Presents the latest developments and advances in the field of biology and prepares students for the major course sequence in the biology/pre-med and endorsement curriculums. Emphasis will be placed on chemistry, cell biology, cell division, genetics, and biotechnology.

This course is a pre-requisite for all other Biology courses.

**Co-requisite: BIOL 120 Principles of Biology I Laboratory**

#### **BIOL 120 PRINCIPLES OF BIOLOGY I LABORATORY - 1 semester hour**

A laboratory course required to be taken in conjunction with BIOL 120 Principles of Biology I lecture course. This course will involve hands on laboratory exercises related to selected lecture topics.

**Co-requisite: BIOL 120 Principles of Biology I Lecture**

#### **BIOL 121 PRINCIPLES OF BIOLOGY II - 3 semester hours**

Presents the latest developments and advances in the field of biology with emphasis on evolution, ecology, diversity of life, and classification of plants and animals. This course is required of all biology majors.

**Prerequisite: BIOL 120 Principles of Biology I.**

**Co-requisite: BIOL 121 Principles of Biology II laboratory**

#### **BIOL 121 PRINCIPLES OF BIOLOGY II LABORATORY - 1 semester hour**

A laboratory course required to be taken in conjunction with BIOL 121 Principles of Biology II lecture course. This course will involve hands on laboratory exercises related to selected lecture topics.

**Co-requisite: BIOL 121 Principles of Biology II**

#### **BIOL 130 PROFESSIONAL PRACTICES IN BIOLOGY - 2 semester hour**

A course designed to familiarize students with the requirements and expectations of professional careers in biology and related disciplines including obtaining relevant research or career experiences, preparing personal statements, obtaining letters of reference, preparing successful applications and ethics in science.

**This course is for Biology majors only**

#### **BIOL 200 TECHNICAL WRITING IN BIOLOGY - 3 semester hours**

A study of the content, structure and presentation of written communication in Biology (e.g. reports, abstracts, posters, journal articles etc.). The course includes study of previously prepared and published materials, as well as original written work prepared by students.

**Prerequisite: BIOL 121 Principles of Biology II**

#### **BIOL 201 CELL AND MOLECULAR BIOLOGY - 3 semester hours**

A study of the principles of eukaryotic cellular and molecular biology. This course is designed to provide students planning to attend a graduate or medical program with an understanding of the structure and function of eukaryotic cells, with emphasis on multicellular organisms.

**Prerequisite: BIOL 121 Principles of Biology II.**

**Co-requisite: BIOL 201 Cell and Molecular Biology laboratory**

**BIOL 201 CELL AND MOLECULAR BIOLOGY LABORATORY - 1 semester hour**

A laboratory course required to be taken in conjunction with BIOL 201 Cell and Molecular Biology. This course will give students a laboratory experience to complement their lecture material. The laboratory will expose students to the eukaryotic cell structure and function, and molecular biology techniques.

**Co-requisite: BIOL 201 Cell and Molecular Biology lecture**

**BIOL202 TERMINOLOGY FOR THE HEALTH SCIENCES - 3 semester hours**

This course will introduce the learners to common terms essential for professionals working in a health career. The course is an introductory course to the world of terminology with an emphasis on health terms. This course will provide an overview of terminology with an emphasis on prefixes, suffixes, and root words. The course will highlight major anatomy and physiology of the human body. The course will identify major diagnostic tests and therapeutic interventions. Finally the course will provide an introduction to pharmacological terms and major drug classifications. This is an elective course open to all currently enrolled students. This course may not serve as a Biology restricted elective for Biology majors.

**BIOL 205 INTEGRATIVE ORGANISMAL BIOLOGY - 3 semester hours**

An integrative course examining how organisms cope with environmental challenges by investigating the requirements for life at the level of individual cells and multi-cellular organisms, the anatomical and physiological properties of cells, tissues and organ systems, and how these properties allow organisms to interact successfully with their environment. Emphasis will be placed on the study of eukaryotic groups particularly plants and animals.

**Prerequisite: BIOL121 Principles of Biology II.**

**Co-requisite: BIOL205 Integrative Organismal Biology laboratory**

**BIOL 205 INTEGRATIVE ORGANISMAL BIOLOGY LABORATORY - 1 semester hour**

A laboratory examining living organisms at various organizational levels.

**Co-requisite: BIOL 205 Integrative Organismal Biology lecture**

**BIOL 241 INTRODUCTION TO MICROBIOLOGY - 3 semester hours**

The study of fundamental principles of microbiology. Emphasis will be placed on medical, environmental, agricultural, and industrial microbiology. Concurrent enrollment in the laboratory is required.

**Prerequisite: BIOL 120 Principles of Biology I or consent of instructor. Co-**

**requisite: BIOL 241 Introduction to Microbiology laboratory**

**BIOL 241 INTRODUCTION TO MICROBIOLOGY LABORATORY - 1 semester hour**

A laboratory course to be taken in conjunction with BIOL 241 Introduction to Microbiology lecture course. The laboratory will consist of selected exercises that illustrate and clarify basic concepts in microbiology. Attention to basic microbiological laboratory techniques will be stressed.

**Co-requisite: BIOL 241 Introduction to Microbiology lecture**

**BIOL 310 PLANT MORPHOLOGY AND DEVELOPMENT - 3 semester hours**

A study of the development, function and evolution of plant structures, including life histories and specific adaptations to native habitats. Concurrent enrollment in the laboratory is required.

**Prerequisite: BIOL 121 Principles of Biology II or PLSC 140 Principles of Plant Science or consent of instructor. Co-requisite: BIOL 310 Plant Morphology laboratory**

**BIOL 310 PLANT MORPHOLOGY AND DEVELOPMENT LABORATORY - 1 semester hour**

A laboratory course required to be taken in conjunction with BIOL 310 Plant Morphology laboratory course. This laboratory experience will contribute to an understanding of the function of various morphological characteristics across plant groups.

**Co-requisite: BIOL 310 Plant Morphology lecture**

**BIOL 311 COMPARATIVE VERTEBRATE ANATOMY - 3 semester hours**

A course detailing the comparative morphology of vertebrate systems at both the gross and microscopic levels of organization. The application of comparative anatomy to the study of the development and ancestry of the classes of vertebrates is included. Concurrent enrollment in the laboratory is required.

**Prerequisite:** BIOL 205 Integrative Organismal Biology. **Co-requisite:** BIOL 311 Comparative Vertebrate Anatomy laboratory

**BIOL 311 COMPARATIVE VERTEBRATE ANATOMY LABORATORY****1 semester hour**

Dissection of vertebrate types found in the five basic classes of vertebrates in comparative purposes.

**Co-requisite:** BIOL 311 Comparative Vertebrate Anatomy lecture

**BIOL 313 GENERAL ZOOLOGY - 3 semester hours**

An upper division course designed to provide the student with an in depth examination of the structures, functions, adaptations, and evolutionary relationships among animal phyla. The evolutionary development of major systems and characteristics of the major groups will also be covered. Attention is given to the evolutionary and ecological interaction of animals and their environment. Concurrent enrollment in the laboratory is required.

**Prerequisite:** BIOL 205 Integrative Organismal Biology.  
**Co-requisite:** BIOL 313 General Zoology laboratory

**BIOL 313 GENERAL ZOOLOGY LABORATORY - 1 semester hour**

A laboratory course required to be taken in conjunction with BIOL 313 General Zoology lecture course. The students will examine representative organisms, structures and organ systems to illustrate the evolutionary development of the animal kingdom.

**Co-requisite:** BIOL 313 General Zoology lecture

**BIOL 316 HUMAN PHYSIOLOGY - 3 semester hours**

A non-laboratory introductory study of the human system at work and the ways and means by which various functions are integrated into a living unit.

**Prerequisite:** BIOL 120 Principles of Biology I or consent of instructor

**BIOL 318 HUMAN ANATOMY & PHYSIOLOGY I - 3 semester hours**

An introduction to the structure and function of the human body through lecture and laboratory experience. Emphasis is placed on understanding the relationships between structure and function at each level of organization, from molecules to organs to organ systems.

**Prerequisites:** BIOL 120 Principles of Biology I or consent of instructor

**BIOL 318 HUMAN ANATOMY AND PHYSIOLOGY I LABORATORY - 1 semester hour**

A laboratory to accompany BIOL 318 lecture.

**Co-requisite:** BIOL 318 Human Anatomy and Physiology I

**BIOL 319 HUMAN ANATOMY & PHYSIOLOGY II - 3 semester hours**

The second half of a two-semester course (with lab) describing the structure and function of the human body through lecture and laboratory experience.

**Prerequisite:** BIOL 318 Human Anatomy and Physiology I

**BIOL 319 HUMAN ANATOMY AND PHYSIOLOGY II LABORATORY - 1 semester hour**

A laboratory to accompany BIOL 319 lecture.

**Co-requisite:** BIOL 319 Human Anatomy and Physiology II

**BIOL 320 PRINCIPLES OF GENETICS - 3 semester hours**

An extensive study of the general fundamental principles of genetics, including special emphasis on the application of recombinant DNA technology in the study of DNA, RNA, and the mechanisms of gene expression. Laboratory will involve modern techniques of genetic experimentation.

**Prerequisites:** BIOL 241 Introduction to Microbiology, CHEM 151 General Chemistry I, CHEM 153 General Chemistry Laboratory, or consent of instructor

**BIOL 320 PRINCIPLES OF GENETICS LABORATORY - 1 semester hour**

The laboratory experience will confirm and expand on what is covered in the lecture and textbook. It will also provide the opportunity to function as a geneticist.

**Co-requisite:** BIOL 320 Principles of Genetics

**BIOL 324 ECOLOGY - 3 semester hours**

This course will cover the basic principles of ecology. Ecology is a diverse subject in terms of topics and will be related to other disciplines of science. This course will provide the opportunities to understand the relationships among various areas of ecological sciences. The course will deal with the fundamental factual knowledge of natural ecosystems, distribution, abundance of organisms, and vegetation types, and the factors that influence the presence of flora and fauna at various locations. Emphasis is to be given on the understanding of the process of science that will augment the discovery and sharpen the abilities, skills, and knowledge through the study of ecology. Concurrent enrollment in the laboratory is required.

**Prerequisites:** BIOL 205 Integrative Organismal Biology. **Co-requisite:** BIOL 324 Ecology laboratory

**BIOL 324 ECOLOGY LABORATORY - 1 semester hour**

A field study of the relationships of organisms to their environment.

**Co-requisite:** BIOL 324 Ecology

**BIOL 352 INTRODUCTION TO MATHEMATICAL BIOLOGY - 3 semester hours Sp even years**

This course is designed to develop mathematical models in biology and study the behavior of such models using numerical techniques and review the mathematical concepts behind many important biological principles. Topics will be drawn from conservation biology, genetics, and physiology. Mathematics and computational methods to be reviewed include functions in biology, difference and continuous models, exponential and logarithmic functions, probability, numerical matrix algebra and curve fitting software. Students can receive credit for either MATH 352 OR BIOL 352 but not for both.

**Prerequisite:** BIOL 121 Principles of Biology II, MATH 121 College Algebra and Trigonometry II, STAT 210 Elementary Statistics, or consent of instructor

**BIOL 402 STUDENT TEACHING IN BIOLOGY - 3 semester hours**

This course is designed to provide supervision in the content area for pre-service secondary biology candidates. Prerequisite: Consent of instructor

**Co-requisite:** EDUC 402 Student Teaching

**BIOL 405 ANIMAL BEHAVIOR - 3 semester hours**

A course in the study of animal behavior in the field. Topics include: natural selection and evolution of behavior, behavioral genetics, neural and physiological mechanisms of behavior, communication, aggression, sexual reproduction, and mating systems. The course is an upper-level biology restrictive elective appropriate for junior and senior biology majors and others interested in zoology, animal science, entomology and experimental psychology. Concurrent enrollment in the laboratory is required.

**Prerequisites:** BIOL 205 Integrative Organismal Biology.

**Co-requisite:** BIOL 405 Animal Behavior laboratory

**BIOL 405 ANIMAL BEHAVIOR LABORATORY - 1 semester hours**

The study of animal behavior in the field - to be taken as a co-requisite with BIOL 405 Animal Behavior lecture course. This course will emphasize methodology for collecting and analyzing animal behavior data. We will cover collection, statistical analysis, interpretation and written and oral presentation of behavioral data. **Co-requisite: BIOL 405 Animal Behavior lecture**

**BIOL 410 SYSTEMATIC BOTANY - 3 semester hours**

A laboratory field and lecture course devoted to classifying seed plants, ferns, and mosses found in Virginia. Numerous field trips. Concurrent enrollment in the laboratory is required.

**Prerequisites: BIOL 205 Integrative Organismal Biology.**

**Co-requisite: BIOL 410 Systematic Botany laboratory**

**BIOL410 SYSTEMATIC BOTANY LABORATORY - 1 semester hour**

A laboratory field course devoted to classifying seed plants, ferns and mosses found in Virginia.

**Co-requisite: BIOL 410 Systematic Botany lecture**

**BIOL 412 INVERTEBRATE ZOOLOGY - 3 semester hours**

A comprehensive consideration of the biology of the invertebrates inclusive of the more important parasites particular to man. A balanced presentation of taxonomical, morphological, physiological and ecological treatment of the invertebrates is presented. Concurrent enrollment in the laboratory is required.

**Prerequisites: BIOL 205 Integrative Organismal Biology.**

**Co-requisite: BIOL 412 Invertebrate Zoology laboratory**

**BIOL 412 INVERTEBRATE ZOOLOGY LABORATORY - 1 semester hour**

A systematic and morphological study of the invertebrates.

**Co-requisite: BIOL 412 Invertebrate Zoology lecture**

**BIOL 413 VERTEBRATE BIOLOGY - 3 semester hours**

A study of various vertebrate groups emphasizing their origin, comparative morphology, taxonomy, life histories, habitats, distribution and economic importance. Concurrent enrollment in the laboratory is required.

**Prerequisites: BIOL 205 Integrative Organismal Biology.**

**Co-requisite: BIOL 413 Vertebrate Biology laboratory**

**BIOL 413 VERTEBRATE BIOLOGY LABORATORY - 1 semester hour**

A systematic and morphological study of the vertebrates.

**Co-requisite: BIOL 413 Vertebrate Biology lecture**

**BIOL 414 TECHNIQUES OF MOLECULAR BIOLOGY - 3 semester hours**

A course designed to acquaint students with the latest techniques in molecular biology. Concurrent enrollment in the laboratory is required.

**Prerequisites: BIOL 320 Principles of Genetics or consent of instructor.**

**Co-requisite: BIOL 414 Techniques of Molecular Biology laboratory**

**BIOL 414 TECHNIQUES OF MOLECULAR BIOLOGY LABORATORY - 1 semester hour**

A laboratory course to accompany and allow hands-on application of techniques discussed in BIOL 414 lecture.

**Co-requisite: BIOL 414 Techniques of Molecular Biology lecture**

**BIOL 415 VERTEBRATE HISTOLOGY - 3 semester hours**

An intensive study of the cell and the cellular organization of the various tissues of the body, with an introduction to microslide preparation.

**Prerequisites: BIOL 201 Cell and Molecular Biology or consent of Instructor**

**BIOL 415 VERTEBRATE HISTOLOGY LABORATORY - 1 semester hour**

A study of the identifying characteristics of animal tissues.

**Co-requisite:** BIOL 415 Vertebrate Histology lecture

**BIOL 416 QUANTITATIVE BIOLOGY - 3 semester hours**

In practice, the course will illustrate in a clear and useful way, the application and adaptation of general quantitative methods in the approach to specific biological problems and in the treatment of biological data. Concurrent enrollment in the laboratory is required.

**Prerequisites:** BIOL 205 Integrative Organismal Biology and BIOL 320 Principles of Genetics.

**Co-requisite:** BIOL 416 Quantitative Biology laboratory

**BIOL 416 QUANTITATIVE BIOLOGY LABORATORY - 1 semester hour**

A laboratory course required to be taken in conjunction with BIOL 416 Quantitative Biology lecture course. This course will involve exercises related to selected lecture topics.

**Co-requisite:** BIOL 416 Quantitative Biology lecture

**BIOL 417 GENERAL PHYSIOLOGY - 3 semester hours**

A study of the integration of body function in higher animals with emphasis on the irritable tissues, nerves and muscles. Attention is given to nerve excitability impulse conduction, information processing, chemical transmission, receptor mechanisms and muscle bio-chemistry. Muscle irritability and contractibility are also considered, as well as humoral integration, nutrition, respiration and circulation.

**Prerequisites:** BIOL 201 Cell and Molecular Biology, BIOL 205 Integrative Organismal Biology, BIOL 320 Principles of Genetics, CHEM 305 Organic Chemistry I

**BIOL 417 GENERAL PHYSIOLOGY LABORATORY - 1 semester hour**

A demonstration of the various body functions.

**Co-requisite:** BIOL 417 General Physiology lecture

**BIOL 418 PLANT PHYSIOLOGY - 3 semester hours**

A course involving studies of the internal and external factors affecting water relations, mineral nutrition, respiration, photosynthesis, growth and differentiation of plants, with an emphasis on plant metabolism. Concurrent enrollment in the laboratory is required.

**Prerequisite:** BIOL 205 Integrative Organismal Biology.

**Co-requisite:** BIOL 418 Plant Physiology laboratory

**BIOL 418 PLANT PHYSIOLOGY LABORATORY - 1 semester hour**

A laboratory to accompany plant physiology lecture, with an emphasis on plant metabolism.

**Co-requisite:** BIOL 418 Plant Physiology lecture

**BIOL 419 CELL PHYSIOLOGY - 3 semester hours**

Designed to give the student a deeper understanding of cellular structure and function, this course emphasizes the application of basic principles of biology, chemistry, and physics to the evaluation and extension of the current state of knowledge of the cell.

**Prerequisites:** BIOL 201 Cell and Molecular Biology; BIOL 220 Principles of Genetics

**BIOL 419 CELL PHYSIOLOGY LABORATORY - 1 semester hour**

The study of the structure and function of cellular organelles.

**Co-requisites:** BIOL 419 Cell Physiology lecture

**BIOL422 EVOLUTIONARY BIOLOGY - 3 semester hours**

Introduces students to the modern synthetic theory of evolution, beginning with Charles Darwin's seminal work (Origin of Species) and finishing with contemporary issues as laid out in the primary scientific literature. This course will cover theoretical and empirical studies of evolutionary processes, with emphasis on the latter. Concurrent enrollment in the laboratory is required.

**Prerequisites:** BIOL 205 Integrative Organismal Biology,  
BIOL 320 Principles of Genetics, BIOL 324 Ecology

**Co-requisite:** BIOL 422 Evolutionary Biology laboratory

**BIOL 422 EVOLUTIONARY BIOLOGY LABORATORY - 1 semester hour**

A demonstration of evolutionary processes.

**Prerequisites:** BIOL 201 Cell and Molecular Biology, BIOL 320 Principles of Genetics.

**Co-requisite:** BIOL 422 Evolutionary Biology lecture

**BIOL 423 CONSERVATION BIOLOGY - 3 semester hours**

This course introduces the principles of conservation biology with an emphasis on ecological processes operating at population, community and ecosystem levels of organization. Threats to biological diversity, ranging from species introduction to habitat destruction and conservation solutions such as the design of protected areas and conservation legislation will be covered.

**Prerequisites:** BIOL 205 Integrative Organismal Biology and BIOL 324 Ecology

**BIOL 425 EMBRYOLOGY - 3 semester hours**

A study of the fundamental developmental stages of echinoids, fish and selected vertebrates with some consideration being given to mammals. The developmental processes of these organisms will be described and analyzed through early stages.

**Prerequisites:** BIOL 205 Integrative Organismal Biology and BIOL 320 Principles of Genetics

**BIOL 425 EMBRYOLOGY LABORATORY - 1 semester hour**

A descriptive study of the early developmental sequences of the vertebrate animals.

**Co-requisite:** BIOL 425 Embryology lecture

**BIOL 427 SCIENCE PROCESS SKILLS - 3 semester hours**

Designed to foster the development and understanding of principles and major concepts and processes of science as they relate to the elementary and or middle grades. The course will emphasize content and develop competency in the application and performance of specific basic and integrated skills in science.

**Prerequisite:** Restricted to pre-service K-6 candidates.

**Co-requisite:** BIOL 427 Science Process Skills laboratory

**BIOL 427 SCIENCE PROCESS SKILLS LABORATORY - 1 semester hour**

Practical experiences in conducting elementary science investigations.

**Co-requisite:** BIOL 427 Science Process Skills lecture

**BIOL 428 TEACHING SCIENCE IN SECONDARY SCHOOLS - 3 semester hours**

The course is designed to foster the development and understanding of principles and major concepts of science as they relate to middle and secondary school teaching. It also incorporates current theories and practices in science teaching. Emphasis will be placed on teaching the concepts of science as inquiry, developing research skills, and applying research findings to the teaching and learning of science. Safety in the classroom and legal issues will be discussed. Students will discuss and analyze various classroom management techniques. Students will develop lesson and unit plans incorporating technological approaches to meet the diverse needs of learners, as well as, gifted and talented students. Students will be knowledgeable of Virginia's SOLs and design instruction reflective of the SOLs. Also, students will participate in a series of organized practicum experiences in a public school secondary science classroom.

**Prerequisite:** Restricted to secondary education candidates.

**BIOL 440 VIROLOGY - 3 semester hours**

A study of the basic characteristics of plant, animal and bacterial viruses. The composition, morphology, multiplication, cultivation, and the control of viruses are included.

**Prerequisite:** BIOL 201 Cell and Molecular Biology, BIOL 241 Introduction to Microbiology

**BIOL 440 VIROLOGY LABORATORY - 1 semester hour**

Multiplication, cultivation, and control of viruses are demonstrated.

**Co-requisite:** BIOL 440 Virology lecture

**BIOL 443 IMMUNOLOGY AND SEROLOGY - 3 semester hours**

The study of host-parasite relationships with emphasis on the response of vertebrates to antigens and the nature of the immune response. Among the topics included are antigens and antibody specificities, hypersensitivity, immunological tolerance, autoimmunization, tumor and transplant immunology, and monoclonal antibodies.

**Prerequisite:** BIOL 201 Cell and Molecular Biology, BIOL 241 Introduction to Microbiology

**BIOL 443 IMMUNOLOGY AND SEROLOGY LABORATORY - 1 semester hours**

Experiments conducted that illustrate both innate and acquired immunity. Included are the preparation of various vaccines, the immunization of laboratory animals, the demonstration of hypersensitivity, the performance of serological tests of diagnostic and medico-legal importance, the performance of immunochemical methods of antigenic analysis.

**Co-requisite:** BIOL 443 Immunology and Serology lecture

**BIOL 445 PATHOGENIC AND DIAGNOSTIC MICROBIOLOGY - 3 semester hours**

The study of the morphological and cultural characteristics and the pathogenic properties of microorganisms. Emphasis is placed on the biological properties, isolation, identification and the control of pathogenic bacteria.

**Prerequisite:** BIOL 201 Cell and Molecular Biology and BIOL 241 Introduction to Microbiology

**BIOL 445 PATHOGENIC AND DIAGNOSTIC MICROBIOLOGY LABORATORY - 1 semester hour**

The identification, isolation and control of pathogenic bacteria.

**Co-requisite:** BIOL 445 Pathogenic and Diagnostic Microbiology lecture

**BIOL 446 INVESTIGATIONS AND RESEARCH – 3 semester hours**

Independent research course designed for the application of biological and chemical techniques under the guidance of a member of the biology faculty.

**Prerequisites:** BIOL 320 Principles of Genetics, BIOL 324 Ecology, CHEM 305 & 307 Organic Chemistry, or consent of instructor

**BIOL 447 SEMINAR IN BIOLOGY - 1 semester hours**

A survey of current biological literature; the student prepares and presents reports on assigned projects.

**Prerequisite:** BIOL 446 Investigations and Research

**BIOL 450 INTRODUCTION TO BIOINFORMATICS - 3 semester hours**

The study of how computers are used for processing, storing and analyzing biological data. Special emphasis is placed on current problems in genomics research and the common bioinformatics tools and resources used to resolve them.

**Prerequisites:** BIOL 320 Genetics or consent of instructor

**BIOL 489 INDEPENDENT STUDY IN BIOLOGY - 1 to 4 semester hours**

An independent investigation in the biological sciences conducted under the direction of a faculty member. This course is arranged on an individual basis and must be approved before the semester it is to be taken.

**Prerequisite:** Consent of instructor

**BIOL 490 TOPICS IN BIOLOGY - 3 to 4 semester hours**

An in-depth exploration of recent developments in a field of biology based on faculty interest and expertise. Courses that include a laboratory experience will be 4 semester hours.

**Prerequisite: BIOL 320 Principles of Genetics and BIOL 324 Ecology or permission of instructor.**

**DEPARTMENT OF BIOLOGY**  
**Bachelor of Science Degree**

**Biology Curriculum (2015-present)**

**FRESHMAN**

1st semester	Sem		2nd semester	Sem	
BIOL120 Principles of Biology I	3		BIOL121 Principles of Biology II	3	
BIOL120 Principles of Biology I	1		BIOL121 Principles of Biology II	1	
CHEM151 General Chemistry I	3		CHEM152 General Chemistry II	3	
CHEM153 General Chemistry I	1		CHEM154 General Chemistry II	1	
MATH120 Alg. & Trig. I	3		MATH121 Alg. & Trig. II	3	
ENGL110 Composition I	3		ENGL111 Composition II	3	
BIOL130 Professional Practices in Biology	2	Total	Fitness Elective	1	Total
<b>16</b>			<b>15</b>		

**SOPHOMORE**

1st semester	Sem		2nd Semester	Sem	
BIOL205 Integrative Organismal	3		BIOL201 Cell & Molecular	3	
BIOL205 Integrative Organismal Lab	1		BIOL201 Cell & Molecular Biology	1	
CHEM305 Organic Chemistry I	3		CHEM306 Organic Chemistry II	3	
CHEM307 Organic Chemistry I Lab	1		CHEM308 Organic Chemistry II Lab	1	
PSYC101 Psychology	3		Global Studies Elective	3	
Literature Elective	3		Humanities Elective	3	
Fitness Elective	1		U.S. History Elective	3	
		Total			Total
<b>15</b>			<b>17</b>		

**JUNIOR**

1st semester	Sem		2nd Semester	Sem hrs	
BIOL241 Introduction to Microbiology	3		BIOL320 Principles of Genetics	3	
BIOL241 Introduction to Microbiology Lab	1		BIOL320 Principles of Genetics Lab	1	
BIOL324 Ecology	3		BIOL Restricted Elective	3	
BIOL324 Ecology Lab	1		BIOL Restricted Elective Lab	1	
PHYS105 Introduction to Physics I	3		PHYS106 Introduction to Physics II	3	
PHYS105 Introduction to Physics I Lab	1		PHYS106 Introduction to Physics II Lab	1	
STAT210 Elementary Statistics	3	Total	Unrestricted Elective	3	Total
<b>15</b>			<b>15</b>		

**SENIOR**

1st semester	Sem		2nd Semester	Sem	
BIOL Restricted Elective	3		BIOL Restricted Elective	3	
BIOL Restricted Elective Lab	1		BIOL Restricted Elective Lab	1	
BIOL Restricted Elective	3		BIOL447 Seminar	1	
*(BIOL Restricted Elective Lab)	(1)				
BIOL446 Investigations and Research	3	Total	Unrestricted electives (2)	6	Total
Unrestricted Electives (2)	6				
<b>16</b>			<b>11</b>		

\* \* Additional BIOL course at 300 or 400-level lab may be required depending upon chosen elective. See catalog for course requirements.

**Summary, Biology Curriculum**

<b>Major, Biology</b>	4
<b>General Education</b>	23
English (Composition)	6
Humanities	3
History	3
Global Studies	3
Literature	3
Fitness/Health	2
Social Science	3
*Mathematics	6
*Science	8

\* Satisfied by courses BIOL120/121 and Math120/121

<b>Natural Sciences</b>	
Mathematics/Statistics	9
Physics	8
Chemistry	16
Biology Restrictive Electives	15
Unrestrictive Electives	15
<b>Total</b>	<b>120</b>

**General education: as described in GE curriculum**

**Restrictive electives**

BIOL 200, 310, 311, 313, 316, 318, 319, 405, 410, 412, 413, 414, 416, 417, 418, 419, 422, 423, 425, 440, 443, 445, 450, 489, 490, 510, 511, 514, 515, 518, 520, 521, 533, 546, 548

Note: 318 and 319 will be renumbered to 218 and 219

**Unrestrictive electives:** Any course at the University not explicitly described above.

GPA Requirements: All Biology majors must pass BIOL 120, 121, 201, 205, 241, 320, and 324 (the BIOLOGY CORE COURSES) with a grade of C or better in order to graduate. All Biology majors must pass BIOL 120, 121, and 205 with a grade of C or better in order to advance beyond the BIOLOGY CORE COURSES.

**DEPARTMENT OF BIOLOGY**  
**BS in Biology with a Minor in Secondary Education (125 hrs)**

Course No.	Title		Title		Total Hours
<b>FRESHMAN YEAR</b>					
1st Semester		Sem	2nd Semester		
ENGL 110 Composition I		3	ENGL 111 Composition II	3	6
MATH 121* College Algebra & Trig II		3	STAT 210 Statistics	3	6
CHEM 151 General Chemistry I		3	CHEM 152 General Chemistry II	3	6
CHEM 153 General Chemistry I Laboratory		1	CHEM 154 General Chemistry II Laboratory	1	2
BIOL 120 Principles of Biology I		3	BIOL 121 Principles of Biology II	3	6
BIOL 120 Biology Laboratory I		1	BIOL 121 Biology Laboratory II	1	2
Physical Education Elective		1	History Elective	3	3
<b>Totals</b>		<b>15</b>		<b>17</b>	<b>32</b>

<b>SOPHOMORE YEAR</b>					<b>Total Hours</b>
1st semester		Sem hrs	2nd Semester		
SEDUC 201 Introduction to Teaching I		2	EDUC 202 Introduction to Teaching II	2	4
CHEM 305 Organic Chemistry I		3	IDST 200 Digital Media in Teacher Education	3	6
CHEM 307 Organic Chemistry I Lab		1	ENGL 202 Literature Elective	3	4
BIOL 201 Cell and Molecular Biology		3	BIOL 205 Integrative Organismal Biology	3	6
BIOL 201 Cell and Molecular Biology Laboratory		1	BIOL 205 Integrative Organismal	1	2
BIOL 241 Introduction to Microbiology		3	Global Studies Elective	3	6
BIOL 241 Introduction to Microbiology Laboratory		1			1
Humanities Elective		3			3
<b>Totals</b>		<b>17</b>		<b>15</b>	<b>32</b>

**JUNIOR YEAR****Total Hours**

1st semester	Sem	2nd Semester	Sem	
EDUC 315 Data Driven Instructional Design	3	PSYC 212 Human Growth and Development	3	6
BIOL 320 Principles of Genetics	3	SPED 403 Classroom Management in Educational	3	6
BIOL 320 Principles of Genetics Laboratory	1	BIOL 324 Ecology	3	4
PHYS 105 Introduction to Physics I	3	BIOL 324 Ecology Laboratory	1	4
PHYS 105 Introduction to Physics I Laboratory	1	GEES 181 Earth Science	3	4
BIOL310 Plant Morphology	3	GEES 181 Earth Science Laboratory	1	4
BIOL310 Plant Morphology Laboratory	1	Physical Education Elective	1	2
<b>Totals</b>	<b>15</b>		<b>15</b>	<b>30</b>

**SENIOR YEAR****Total Hours**

1st semester	Sem	2nd Semester	Sem hrs	
EDUC 424 Critical Issues in Education	2	BIOL 402 Student Teaching in Biology	3	5
Biology Restrictive Elective and Lab	4	EDUC 401 Student Teaching Seminar	3	7
BIOL 447 Seminar in Biology	1	EDUC 402 Student Teaching	9	10
BIOL 428 Teaching Science in Secondary Schools	3			3
BIOL 446 Investigations and Research	3			3
EDUC 427 Reading in The Subject Area	3			3
<b>Totals</b>	<b>16</b>		<b>15</b>	<b>31</b>

**Additional Requirements for B.S. in Biology with a minor in Secondary Education****Freshman Year:**

- IDST 100/101 are not needed if PRAXIS I scores or SAT scores requirement are met
- Take and pass Praxis I Assessment

**\*Students not ready for MATH 121 in their Freshman Year may take MATH120. However, the credits do not count toward the total number of semester hours needed to complete the degree requirements.**

**Sophomore Year:**

Students must complete admission to Teacher Education Professional Program.

**Senior Year:**

Student must take and pass Praxis II in Biology prior to student teaching.

## DEPARTMENT OF CHEMISTRY

**Chairperson:** Victor Vilchiz  
Hunter McDaniel, Room 239N  
(804) 524-5574

**Professors:** Godwin Mbagwu

**Associate Professors:** Grace Ndip, Colleen Taylor, Victor Vilchiz

**Assistant Professors:** Tongwen Wang

The Department of Chemistry offers course work leading to the Bachelor of Science degree in Chemistry with three options or concentrations. The chemistry program prepares students for immediate employment in industry, entry into professional schools (dentistry, medical and pharmacy), as well as for graduate studies in chemistry, forensic sciences, or related areas. To facilitate thorough preparation for these and other possible future careers, the Department offers curricula which are well-structured. The student has a choice of the straight chemistry curriculum or he/she can pursue the biochemistry (pre-professional) or the forensic chemistry track. A minor in another discipline is strongly encouraged to further broaden the student's knowledge base and increase his/her marketability and competitiveness upon graduation. The overall departmental goal is to contribute toward the development of future scientists and professionals. Therefore, our curricula are structured to produce graduates who are strongly grounded in the fundamental principles of the discipline, possessing highly developed problem-solving and critical thinking skills.

The Department of Chemistry offers three concentrations leading to the B.S. Degree in Chemistry: Chemistry, Biochemistry, and Forensics Chemistry.

- The **Chemistry Concentration** is the most flexible, and is recommended for students interested in industrial positions or considering graduate school in chemistry. Students working under this option should select restricted and unrestricted electives appropriate for their intended focus area.
- The **Biochemistry Concentration** prepares students to enter graduate programs focused on health-related sciences such as medicine, dentistry, optometry or pharmacy. Students interested in going to medical or pharmacy school are encouraged to choose this option. The institution has agreements with Eastern Virginia Medical School, Edward Via College of Osteopathic Medicine, and Howard University School of Pharmacy.
- The **Forensics Chemistry Concentration** prepares students for employment in the forensic sciences. Students in this program take criminal justice courses and complete internships with regional partners to gain experience in the field.

### Mission Statement

The Department of Chemistry at Virginia State University offers courses designed to prepare students for employment in a variety of careers. A number of chemistry graduates have chosen to pursue studies beyond the undergraduate degree. These students have been shown to be thoroughly prepared for further study in graduate and professional schools, as well as the work force. The mission of the Chemistry Department is to provide quality and challenging academic programs in chemistry to advance the knowledge of chemistry through research, and to promote the understanding of chemistry by offering appropriate courses to meet a variety of student needs.

The Department seeks to achieve this mission through the following goals and objectives:

- Provide basic training that prepares students to become competent professional chemists.
- Help students gain knowledge and develop the necessary skills to study chemistry at the graduate level.
- Prepare students to become secondary school teachers of chemistry.
- Promote research and engage research activities to advance knowledge.
- Provide appropriate courses for all students seeking or requiring knowledge of chemistry.

In pursuit of these goals, the Chemistry Department arranges funding for student projects and travel to national and regional conferences through the Louis Stokes Alliances for Minority Participation, and the Historically Black Colleges and Universities Undergraduate Programs, funded through the National Science Foundation. Grant funds from within the department can also supplement student projects. The department utilizes numerous resources to help place students into paid summer programs all over the country. Researchers offering such programs as well as graduate programs from across the country often visit the Chemistry Department to recruit students.

### **Student Organizations**

- American Chemical Society - Student Affiliate
- Chemistry Club

## CHEMISTRY Course Descriptions

*“If a student withdraws from the lecture portion of a chemistry course they MUST withdraw from the laboratory course.”*

*“In order for a student majoring in a chemistry program to advance to the next course the program pre-requisites must be fulfilled with a grade of C or better.”*

### **CHEM 100 CHEMISTRY AND SOCIETY- 3 semester hours**

A development of the fundamental principles of chemistry and their applications: Chemical nomenclature, stoichiometry, atomic structure, bonding theories, thermochemistry, periodic properties, solution calculations, gas laws and properties of solid and liquids among the topics discussed.

### **CHEM 100 CHEMISTRY AND SOCIETY LABORATORY - 1 semester hour**

An introductory course to the principle techniques of experimental chemistry with emphasis on formula investigations, equations, elementary laboratory statistics, and chemical reactivity.

**Co-requisite: CHEM 100 Chemistry and Society**

### **CHEM 105 INTRODUCTORY CHEMISTRY - 3 semester hours**

A development of the fundamental basis for the further study of chemistry designed for students lacking the pre-requisites for General Chemistry (CHEM151). Emphasis will be placed on problem solving techniques. Topics will include: international system of units, dimensional analysis, properties of atoms and molecules, atomic structure and the periodic table, common chemical reactions, and stoichiometry calculations. The course and associated laboratory can be counted towards the general education science requirement.

### **CHEM 105 INTRODUCTORY CHEMISTRY LABORATORY - 1 semester hour**

Accompanying laboratory exercises for CHEM105 are designed to emphasize basic techniques in laboratory including measurements, basic graphical presentation and interpretation, basis data interpretation, laboratory statistics and laboratory safety practices. The laboratory can be counted towards the general education science requirement.

**Co-requisite: CHEM 105 Introductory Chemistry**

### **CHEM 151 GENERAL CHEMISTRY I - 3 semester hours**

A development of the fundamental principles of chemistry and their applications. Chemical nomenclature, stoichiometry, atomic structure, bonding theories, thermochemistry, periodic properties, solution calculations, gas laws and the properties of solids and liquids are among the topics discussed.

**Pre-requisite: Successful completion of the VSU math placement test with a score that meets the criteria for placement in, at a minimum, MATH120 at the time of enrollment or completion of CHEM105 with a C or better.**

### **CHEM 152 GENERAL CHEMISTRY II - 3 semester hours**

A continuation of the study of the principles of chemistry and their applications. The topics include solution properties, acids and bases, ionic equations, oxidation-reduction, equilibrium, kinetics, descriptive chemistry of the elements, nuclear chemistry and an introduction to organic chemistry.

**Pre-requisite: CHEM 151 General Chemistry I or CHEM 161 Chemistry I**

**CHEM 153 GENERAL CHEMISTRY LABORATORY I - 1 semester hour**

An introduction to the principles and techniques of experimental chemistry with emphasis upon formula investigations, equations, elementary laboratory statistics, and chemical reactivity.

**Co-requisite:** CHEM 151 General Chemistry I

**CHEM 154 GENERAL CHEMISTRY LABORATORY II - 1 semester hour**

A continuation of CHEM 153 with emphasis upon solution properties, kinetics, equilibrium, acids and bases, and qualitative analysis.

**Pre-requisite:** CHEM 153 General Chemistry Laboratory I or CHEM 163 Chemistry Laboratory I

**Co-requisite:** CHEM 152 General Chemistry II

**CHEM 161 CHEMISTRY I - 3 semester hours**

A development of the fundamental principles of chemistry and their application. Chemical nomenclature, stoichiometry, atomic structure, bonding theories, thermochemistry, periodic properties, solution calculations, gas laws and the properties of solids and liquids are among the topics discussed in depth. Emphasis will be placed on problem solving skills to better prepare students for careers in chemistry and related life science fields.

**Pre-requisite:** Chemistry Majors or Permission from the Department Chair

**CHEM 162 CHEMISTRY II - 3 semester hours**

A continuation of development of the fundamental principles of chemistry and their application. The topics that will be covered in depth include solution properties, acids and bases, ionic equations, oxidation reduction, equilibrium, kinetics descriptive chemistry of the elements, nuclear chemistry and an introduction to organic chemistry. Emphasis will be placed on problem solving skills to better prepare students for careers in chemistry and related life science fields.

**Pre-requisite:** CHEM 151 General Chemistry I or CHEM 161 Chemistry I with a C or better

**CHEM 163 CHEMISTRY LABORATORY I - 1 semester hour**

An introduction to the principles and techniques of experimental chemistry with emphasis upon the application of course material to problem solving in the laboratory.

**Co-requisite:** CHEM 161 Chemistry I

**CHEM 164 CHEMISTRY LABORATORY II - 1 semester hour**

A continuation of CHEM 163 with emphasis upon problem solving and presenting professional graphical data while exploring, solution properties, kinetics, equilibrium acids and bases, and qualitative analysis.

**Pre-requisite:** CHEM 153 General Chemistry I Laboratory, CHEM 163 Chemistry Laboratory I

**Co-requisite:** CHEM 162 Chemistry II

**CHEM 210 HISTORY OF CHEMISTRY - 1 semester hour**

A thorough assessment of the groundbreaking work of the pioneers responsible for the current practice of the science of chemistry and biochemistry.

**Pre-requisites:** CHEM 151 GENERAL CHEMISTRY I or CHEM161 CHEMISTRY I

**CHEM 214 INORGANIC CHEMISTRY - 3 semester hours**

A detailed study of the representative elements and their compounds, involving both theoretical and descriptive approaches. Topics greatly expand upon the subject material in the Freshman level chemistry course and include atomic and molecular structure, descriptive chemistry of the elements, d metal complexes, molecular shape and symmetry, group theory, the structure of solids, acids/bases, oxidation/reduction and an introduction to ligand and crystal field theories.

**Pre-requisite:** CHEM152 General Chemistry II or CHEM 162 Chemistry II with a C or better

**CHEM 215 INORGANIC CHEMISTRY LABORATORY - 1 semester hour**

Experiments designed to complement inorganic chemistry lecture by introducing synthetic and instrumental methodology used in the study of inorganic compounds.

**Co-requisite: CHEM 214 Inorganic Chemistry**

**CHEM 218 ANALYTICAL CHEMISTRY I - 3 semester hours**

A survey of the methods of inorganic quantitative analysis, including the methods of gravimetric and volumetric analysis with the use of simple instrumental methods included.

**Pre-requisites: CHEM 152/154 General Chemistry II or 162/164 Chemistry II**

**CHEM 219 ANALYTICAL CHEMISTRY LABORATORY I - 1 semester hour**

Laboratory experiences involving the qualitative and quantitative analysis of chemical compounds including gravimetric, volumetric and spectrophotometric methods.

**Pre-requisites: CHEM 154 General Chemistry Laboratory II or CHEM 164 Chemistry Laboratory II**

**Co-requisite: CHEM 218 Analytical Chemistry I**

**CHEM 232 PROFESSIONAL PRACTICES IN CHEMISTRY - 1 semester hour**

A course designed to foster ethical practices and safety in chemistry and related fields.

**Pre-requisite: CHEM 162 Chemistry II and CHEM 164 Chemistry II Laboratory**

**CHEM 305 ORGANIC CHEMISTRY I - 3 semester hours**

A survey of the chemistry of carbon compounds, their nomenclature, physical properties, structure and reactions with an introduction to reaction mechanisms and instrumental analysis.

**Pre-requisite: CHEM 152 General Chemistry II or CHEM 162 Chemistry II**

**CHEM 306 ORGANIC CHEMISTRY II - 3 semester hours**

A continuation of CHEM 305.

**Pre-requisite: CHEM 305 Organic Chemistry I**

**CHEM 307 ORGANIC CHEMISTRY LABORATORY I - 1 semester hour**

An examination of fundamentals of and practice in organic synthesis, separation, purification and the identification of organic compounds.

**Pre-requisites: CHEM 154 General Chemistry Laboratory II or CHEM 164 Chemistry Laboratory II**

**Co-requisite: CHEM 305 Organic Chemistry I**

**CHEM 308 ORGANIC CHEMISTRY LABORATORY II - 1 semester hour**

A continuation of the fundamentals of and practice in organic synthesis, separation, purification and the identification of organic compounds.

**Pre-requisite: CHEM 307 Organic Chemistry Laboratory I**

**Co-requisite: CHEM 306 Organic Chemistry II**

**CHEM 318 ANALYTICAL CHEMISTRY II - 3 semester hours**

An advanced course with emphasis on general principles and applications of analytical instrumental analysis.

**Pre-requisites: CHEM 218 Analytical Chemistry I; CHEM 219 Analytical Chemistry Laboratory I**

**CHEM 319 ANALYTICAL CHEMISTRY LABORATORY II- 1 semester hour**

Experiments in Instrumental Analysis

**Co-requisite: CHEM 318 Analytical Chemistry II**

**CHEM 320 ORGANIC REACTION MECHANISMS & MODERN INSTRUMENTAL ANALYTICAL TECHNIQUES - 3 semester hours**

A course designed for a more in depth treatment of reaction mechanisms in organic chemistry and instrumental analytical techniques for structure determination of organic compounds, to include: Infrared spectroscopy; Ultraviolet-Visible spectroscopy; Mass spectrometry; and Nuclear Magnetic Resonance spectroscopy.

**Pre-requisite: CHEM 306 Organic Chemistry II**

**CHEM 330 INTRODUCTION TO THE CHEMICAL RESEARCH - 2 semester hours**

An aid to the student in making efficient use of chemical literature both online and in the printed form, with an emphasis upon obtaining the appropriate sources for a research project in the field of chemistry or biochemistry.

**Pre-requisite: CHEM 306, 308 Organic Chemistry & Laboratory II**

**CHEM 340 FORENSICS CHEMISTRY - 3 semester hours**

A course designed to give the forensics student the necessary background in specialized chemical methods and concepts as they apply to the field of forensics.

**Pre-requisite: CHEM 306, 308 Organic Chemistry & Laboratory II**

**CHEM 341 FORENSICS CHEMISTRY LABORATORY - 1 semester hour**

A laboratory course designed to give the forensics student the necessary practical experience in specialized chemical methods as they apply to the field of forensics.

**Co-requisite: CHEM 340 Forensics Chemistry**

**CHEM 400 SPECIAL TOPICS IN CHEMISTRY - 3 semester hours**

An advanced course for chemistry majors designed to promote interest and experience in specialized areas of chemistry. Topics in the area of organic, physical, analytical, inorganic and biochemistry are based on the expertise of the faculty and current trends within these disciplines in chemistry.

**Pre-requisite: Permission of instructor.**

**CHEM 401 PHYSICAL CHEMISTRY I - 3 semester hours**

A non-laboratory treatment of physical chemistry with emphasis on chemical thermodynamics, phase equilibria, kinetic theory and chemical kinetics.

**Pre-requisites: CHEM 152 General Chemistry II or CHEM 162 Chemistry II; MATH 261 Calculus II or consent of instructor**

**CHEM 402 PHYSICAL CHEMISTRY II - 3 semester hours**

A continuation of CHEM 401 with emphasis on the condensed states of matter, atomic and molecular structure, spectroscopy, statistical mechanics and electrochemistry.

**Pre-requisite: CHEM 401 Physical Chemistry I**

**CHEM 404 EXPERIMENTAL PHYSICAL CHEMISTRY - 1 semester hour**

An introduction to the advanced techniques of physiochemical measurements and their application to chemistry.

**Pre-requisite: CHEM 401 Physical Chemistry I**

**CHEM 414 ADVANCED INORGANIC CHEMISTRY - 3 semester hours**

Advanced study of the representative elements and their compounds, involving both theoretical and descriptive approaches. Review of ligand field and crystal field theories, reaction mechanisms of d-block complexes, electronic spectra of transition metal complexes, characterization methods in inorganic chemistry, organometallic chemistry, catalysis and bioinorganic chemistry are among the topics discussed.

**Pre-requisite: CHEM 214, 215 Inorganic Chemistry & Laboratory**

**CHEM 415 ADVANCED INORGANIC CHEMISTRY LABORATORY - 1 semester hour**

Laboratory experiments in inorganic synthesis and spectroscopic methods in inorganic chemistry.

**Co-requisite: CHEM 414 Advanced Inorganic Chemistry**

**CHEM 420 SEMINAR IN CHEMISTRY - 1 semester hour**

A presentation and discussion of topics of current interest and an introduction to the preparation of technical presentations and presentation methods.

**Pre-requisite: 15 semester hours of chemistry courses**

**CHEM 422 BIOCHEMISTRY I - 3 semester hours**

An introduction to the chemistry of life processes, the composition of living matter and the changes associated with biological processes

**Pre-requisites: CHEM 306, 308 Organic Chemistry II & Laboratory**

**CHEM 423 BIOCHEMISTRY I LABORATORY - 1 semester hour**

A laboratory course in which the properties of biochemical molecules are explored and common biochemical reactions are examined.

**Co-requisite: CHEM 422 Biochemistry I**

**CHEM 424 BIOCHEMISTRY II - 3 semester hours**

A continuation of the chemistry of life processes, the composition of living matter, and the changes associated with biological processes.

**Pre-requisite: CHEM 422 Biochemistry I**

**CHEM 425 BIOCHEMISTRY LABORATORY II - 1 semester hour**

A continuation laboratory course in which the properties of biochemical molecules are explored and common biochemical reactions are examined.

**Pre-requisite: CHEM 422, 423 Biochemistry I & Laboratory**

**Co-requisite: CHEM 424 Biochemistry II**

**CHEM 441 RESEARCH LABORATORY I - 2 semester hours**

The first part of a capstone research experience. Students are expected to spend a minimum of 6 hours per week on an independent and original research project designed in consult with their research advisor.

**Pre-requisites: CHEM 320 Organic Reaction Mechanisms & Modern Instrumental Analysis Techniques; CHEM 318 Analytical Chemistry II, CHEM 319 Analytical Chemistry II Laboratory, CHEM 330 Introduction to Chemical Research**

**CHEM 442 RESEARCH LABORATORY II - 2 semester hours**

A continuation of CHEM 441 with an emphasis upon the independent development of a research project. A written report of the research and an oral presentation of the results are required.

**Pre-requisite: CHEM 441 Research Laboratory I**

**CHEM 443 ADVANCED FORENSICS LABORATORY I - 2 semester hours**

This laboratory-based course is designed to give the advanced student crime laboratory experience in examining, analyzing and identifying evidence. In several simulated court presentations, students sharpen their skill in presenting evidence as a scientific expert. The areas covered are: hairs, fibers and polymers, glass, soil, gunshot residue, fire and bomb debris, and drugs.

**Pre-requisites: CHEM 318 Analytical Chemistry II and CHEM 319 Analytical Chemistry II Laboratory, CHEM 330 Introduction to Chemical Research, CHEM 340 Forensics Chemistry, and CHEM 341 Forensics Chemistry Laboratory.**

**CHEM 444 ADVANCED FORENSICS LABORATORY II - 2 semester hours**

A continuation of CHEM 443.

**Pre-requisites: CHEM 443 Advanced Forensics Laboratory I**

**CHEM 445 INTERNSHIP IN CRIMINALISTICS - 3 semester hours**

This on/off-campus internship is designed to give the student an opportunity to expand and apply their classroom knowledge through workplace gained experience in forensic chemistry. It is a lecture/laboratory course. The site supervisor and faculty supervisor will develop the internship criteria and then evaluate the student's performance.

**Pre-requisites: CHEM 444 Advanced Forensics Laboratory II and Permission of Department Chair**

**DEPARTMENT OF CHEMISTRY**  
**Chemistry Major Bachelor of Science Degree**  
**FRESHMAN YEAR**

		1st Semester	2nd Semester	Total Hours
CHEM 161, 162	Chemistry I & II	3	3	6
CHEM 163, 164	Chemistry Laboratory I & II	1	1	2
CHEM 132	Professional Practices in Chemistry	1		1
ENGL 110, 111	Freshman Writing	3	3	6
MATH 260, 261	Calculus I & II	4	4	8
PHYS 105/112, 106/113	General Physics I and II & Laboratory	4	4	8
<b>Totals</b>		<b>16</b>	<b>15</b>	<b>31</b>

**SOPHOMORE YEAR**

CHEM 210	History of Chemistry		1	1
CHEM 214,215	Inorganic Chemistry & Laboratory	4		4
CHEM 218, 318	Analytical Chemistry I & II	3	3	6
CHEM 219, 319	Analytical Chemistry Laboratory I & II	1	1	2
CHEM 305, 306	Organic Chemistry I & II	3	3	6
CHEM 307, 308	Organic Chemistry Laboratory I & II	1	1	2
GE_____	Any Course from LIT Menu	3		3
GE_____	Any Course from HUM Menu		3	3
BIOL 120	Principles of Modern Biology I & Lab		4	4
<b>Totals</b>		<b>15</b>	<b>16</b>	<b>31</b>

**JUNIOR YEAR**

CHEM 320	Organic Reaction Mechanisms and Modern Instrumental Analytical Techniques	3		3
CHEM 330	Introduction to Chemical Research		2	2
CHEM 401, 402	Physical Chemistry I & II	3	3	6
CHEM 404	Experimental Physical Chemistry		1	1
MATH/STAT	Restricted Math Elective	3		3
GE_____	Health & Wellness	2		2
GE_____	Any Course from HIST menu		3	3
GE_____	Any Course from GLST menu		3	3
Restricted Elective		3	3	6
		<b>14</b>	<b>15</b>	<b>29</b>

**SENIOR YEAR**

CHEM 422, 424	Biochemistry I & II	3	3	6
CHEM 423, 425	Biochemistry Laboratory I & II	1	1	2
CHEM 414, 415	Advanced Inorganic Chemistry & Laboratory		4	4
CHEM 441, 442	Advanced Chemistry Laboratory I & II	2	2	4
CHEM 420	Seminar in Chemistry	1		1
GE _____	Any Course from the SSCI menu	3		3
Unrestricted Electives		5	4	9
<b>Totals</b>		<b>15</b>	<b>14</b>	<b>29</b>

*Students not ready for Calculus I and II in their freshman year may take Math 150; however, the credits do not count toward the total number of semester hours needed to meet the degree requirements. Restricted electives can be selected from upper level math or statistics courses such as MATH 360, MATH 350, or STAT 330. Upper level (200 level or above) chemistry, biology, mathematics or computer science courses may also be used to satisfy restricted electives.*

**DEPARTMENT OF CHEMISTRY**  
**CHEMISTRY MAJOR (Biochemistry/Paraprofessional Concentration)**

**FRESHMAN YEAR**

		<b>1st Semester</b>	<b>2nd Semester</b>	<b>Total Hours</b>
CHEM 161, 162	Chemistry I & II	3	3	6
CHEM 163, 164	Chemistry Laboratory I & II	1	1	2
ENGL 110, 111	Freshman Writing	3	3	6
MATH 260, 261	Calculus I & II	4	4	8
CHEM 132	Professional Practices in Chemistry	1		1
BIOL 120	Principles of Modern Biology I & Lab		4	4
BIOL 121	Principles of Modern Biology II & Lab	4		4
<b>Totals</b>		<b>16</b>	<b>15</b>	<b>31</b>

**SOPHOMORE YEAR**

CHEM 210	History of Chemistry		1	1
CHEM 214,215	Inorganic Chemistry & Laboratory	4		4
CHEM 218, 318	Analytical Chemistry I & II	3	3	6
CHEM 219, 319	Analytical Chemistry Laboratory I & II	1	1	2
CHEM 305, 306	Organic Chemistry I & II	3	3	6
CHEM 307, 308	Organic Chemistry Laboratory I & II	1	1	2
BIOL241	Microbiology and Laboratory		4	4
GE_____	Health & Wellness	2		2
GE_____	Any Course from LIT Menu		3	3
<b>Totals</b>		<b>14</b>	<b>16</b>	<b>30</b>

**JUNIOR YEAR**

BIOL201	Cell and Molecular Biology	4		4
PHYS 105/112, 106/113	General Physics I and II with Lab	4	4	8
CHEM 422, 424	Biochemistry I & II	3	3	6
CHEM 423, 425	Biochemistry Laboratory I & II	1	1	2
CHEM 330	Introduction to Chemical Research		2	2
CHEM 401	Physical Chemistry I	3		3
BIOL320	Genetics		4	4
GE_____	Any Course from the HIST menu		3	3
		15	17	<b>32</b>

**SENIOR YEAR**

CHEM 320	Organic Reaction Mechanisms and Modern Instrumental Analytical Techniques	3		3
MATH/STAT	Restricted Math Elective	3		3
CHEM 441, 442	Advanced Chemistry Laboratory I & II	2	2	4
CHEM 420	Seminar in Chemistry	1		1
GE_____	Any Course from GLST menu	3		3
GE_____	Any Course from HUM menu		3	3
GE_____	Any Course from SSCI** menu		3	3
*BIOLXXX	Upper level Biology Course with lab	4	4	4
<b>Totals</b>		<b>16</b>	<b>12</b>	<b>28</b>

*\*Biology senior electives are selected in consultation with the student's advisor and based on the student's area of interest and availability of courses.*

*\*\* Students planning to take the MCAT exam are strongly encouraged to take Introduction to Sociology SOCI 101 or equivalent*

*Students not ready for Calculus I and II in their freshman year may take MATH 150, however, the credits do not count toward the total number of semester hours needed to meet the degree requirements.*

*Students interested in Medical School, Dentistry, Physical Therapy, Pharmacy or any other healthcare field, will have a sufficiently strong background after their third year of study to apply to these programs providing they meet the entrance requirements at the institution of choice. Pharmacy students are encouraged to take the Pharmacy College Admissions Test after their second year of study and apply for admission after their third year of study to any University which offers this degree and for which an articulation agreement exists. Please see the Department Chair for details.*

**DEPARTMENT OF CHEMISTRY**  
**CHEMISTRY MAJOR (Concentration in Forensic Chemistry)**

**FRESHMAN YEAR**

		<b>1st Semester</b>	<b>2nd Semester</b>	<b>Total Hours</b>
CHEM 161, 162	Chemistry I & II	3	3	6
CHEM 163, 164	Chemistry Laboratory I & II	1	1	2
CJUS116	Introduction to Criminal Justice	3		3
CJUS 2XX	*Criminal Justice Elective 200 level		3	3
ENGL 110, 111	Freshman Writing	3	3	6
CHEM 132	Professional Practices in Chemistry	1		1
GE _____	Any Course from HIST menu		3	3
MATH 260, 261	Calculus I & II	4	4	8
<b>Totals</b>		<b>15</b>	<b>17</b>	<b>32</b>

**SOPHOMORE YEAR**

CHEM 210	History of Chemistry		1	1
CHEM 218, 318	Analytical Chemistry I & II	3	3	6
CHEM 219, 319	Analytical Chemistry Laboratory I & II	1	1	2
CHEM 305, 306	Organic Chemistry I & II	3	3	6
CHEM 307, 308	Organic Chemistry Laboratory I & II	1	1	2
BIOL 120	Principles of Modern Biology I & Lab	4		4
BIOL 121	Principles of Modern Biology II & Lab		4	4
CJUS 3XX	*Criminal Justice Elective 300 level		3	3
GE _____	Any Course from LIT menu	3		3
<b>Totals</b>		<b>15</b>	<b>16</b>	<b>31</b>

**JUNIOR YEAR**

CHEM 214,215	Inorganic Chemistry & Laboratory	4		4
CHEM 330	Introduction to Chemical Research		2	2
CHEM 340	Forensic Chemistry		3	3
CHEM 341	Laboratory		1	1
CHEM 401	Physical Chemistry I	3		3
GE _____	Health and Wellness		2	2
GE _____	Any Course from HUM menu		3	3
PHYS105/112, 106/113	General Physics I and II	4	4	8
BIOL241	Intro to Microbiology & Laboratory	4		4
		<b>15</b>	<b>15</b>	<b>30</b>

**SENIOR YEAR**

CHEM 320	Organic Reaction Mechanisms and Modern Instrumental Analytical Techniques	3		3
CHEM 422, 424	Biochemistry I & II	3	3	6
CHEM 423, 425	Biochemistry Laboratory I & II	1	1	2
CHEM 443, 444	Advanced Forensic Chemistry Laboratory I& II	2	2	4
CHEM 420	Seminar in Chemistry	1		1
BIOL201	Cell & Molecular Biology & Laboratory		4	4
BIOL320	Genetics & Laboratory	4		4
GE _____	Any Course from GLST menu		3	3
<b>Totals</b>		<b>14</b>	<b>13</b>	<b>27</b>

*\*Criminal Justice Electives are selected in consultation with the student's advisor and based on the student's area of interest.*

*Students not ready for Calculus I and II in their freshman year may take MATH 150, however, the credits do not count toward the total number of semester hours needed to meet the degree requirements.*

**DEPARTMENT OF CHEMISTRY  
CHEMISTRY MINOR**

**SOPHOMORE YEAR**

		FALL	SPRING	TOTAL
CHEM 305, 306	Organic Chemistry I & II	3	3	6
CHEM 307, 308	Organic Chemistry Laboratory I & II	1	1	2

**JUNIOR YEAR**

CHEM 218	Analytical Chemistry I	3	-	3
CHEM 219	Analytical Chemistry I Laboratory	1	-	1

**SENIOR YEAR**

CHEM 318	Analytical Chemistry II	-	3	3
CHEM 319	Analytical Chemistry II Laboratory	-	1	1
CHEM XXX	Chemistry Elective (see below)	3	-	3

**ELECTIVES**

(3 Credits from the following)

CHEM 214	Inorganic Chemistry	3	-	3
CHEM 320	Organic Chemistry III	3	-	3
CHEM 401	Physical Chemistry I	3	-	3
CHEM 422	Biochemistry I	3	-	3

## DEPARTMENT OF NURSING

Chairperson: Karen Faison  
Hunter-McDaniel Hall, Room 137  
(804) 524-6899

Professor: Karen Faison

Assistant Professor: Frances Montague

The Department of Nursing is currently developing the BSN completion program for Registered Nurses (RNs) whose highest degree in nursing is the associates or hospital diploma. This is in response to the demand for baccalaureate prepared RNs. The VSU pre-licensure associate's degree program in nursing is no longer available. The graduates are licensed RNs employed in a variety of healthcare settings throughout the United States. Many have continued their education and completed the bachelor's and/or master's degree in nursing.



## DEPARTMENT OF PSYCHOLOGY

**Chairperson:** Reginald Hopkins  
Hunter McDaniel Hall, Room 102S-a  
Phone: (804) 524-5459

**Professors:** Oliver Hill, Vernessa R. Clark, Kimberly Boyd

**Associate Professors:** Renia Brown-Cobb, John Fife, Byron Greenberg, Toni Harris, Reginald Hopkins, Shedrick McCall, Christine Smith, Cheryl Talley, Katrina L. Walker

**Assistant Professors:** Bernice Carson, Larry D. Keen, Monique Major

**Instructors:** Patrice Perkins, Dhymsey Vixamar-Owens

The Department offers a program of general psychology on the undergraduate level. The Psychology Department also offers a Master's program in Psychology and a Doctoral program in Health Psychology. The undergraduate program emphasizes general psychology, which is basic to all areas of psychology and provides a foundation of pre-professional education for a variety of vocations. Through a departmental advisory system the faculty aids the major to identify and pursue his or her area of greatest interest. Students who plan to prepare for school psychology, psychiatric or medical social work, guidance and counseling, vocational rehabilitation, clinical psychology, child development, law, criminal justice, medicine, religion, public service, or college teaching and research will identify the psychology offerings to be fundamental to their goals.

The Department hosts a chapter of Psi Chi, the national honor society in psychology, which encourages and promotes high scholastic attainment. In addition, the Department sponsors a psychology club where membership is open to all psychology majors.

### **Mission of the Department**

The mission of the Psychology Department is to teach a diverse student population to adopt a scientific approach to the acquisition of knowledge in the major areas of psychology and to prepare them for global leadership, graduate study, and service in culturally diverse communities.

### **Objectives of the Department**

The Department seeks to achieve its mission through the following objectives:

1. Provide fundamental training in the science of psychology, thus preparing psychology majors for advanced study in the field
2. Contribute to the education of a diverse student population by providing an understanding of the scientific approach to the study of human behavior
3. Offer instruction in the principles and applications of psychology to diverse students and other departments that require psychology in their programs.

## **PSYCHOLOGY**

### **Course Descriptions**

#### **PSYC 101 DISCOVERING PSYCHOLOGY - 3 semester hours**

A general education course designed to give students an understanding of the scientific approach to the study of human behavior and to develop an appreciation for the breadth and variety of psychological approaches.

#### **PSYC 110 INTRODUCTION TO PSYCHOLOGY - 3 semester hours**

A basic course in psychology for majors, serving as the foundation for subsequent courses. The course is designed to give students an understanding of the scientific approach to the study of human behavior and to help students develop an appreciation for the breadth and variety of psychological theories. Required of all psychology majors.

#### **PSYC 111 GENERAL PSYCHOLOGY - 3 semester hours**

A basic course in psychology, serving as the foundation for subsequent courses on specialized topics. Required of all psychology majors.

#### **PSYC 117 THE PSYCHOLOGY OF EARLY CHILDHOOD - 3 semester hours**

A course designed to emphasize personality development of young children at the pre-school and primary levels.

**Prerequisite: Psychology 212**

#### **PSYC 210 ADOLESCENT PSYCHOLOGY - 3 semester hours**

Characteristics of behavior during the adolescent phase of development; personal social adjustments of the individual between childhood and adulthood.

#### **PSYC 212 HUMAN GROWTH AND DEVELOPMENT - 3 semester hours**

A course designed primarily for students preparing to teach in elementary and secondary schools. It aids students in developing fundamental understanding of the patterns and sequence of development from conception through the adolescent period. Students are required to observe children under guidance and to apply methods of child study.

#### **PSYC 214 SOCIAL PSYCHOLOGY - 3 semester hours**

An introduction to the current concepts and theories that attempt to explain the behavior of the individual in society. Major topics include culture and personality, social roles, leadership, prejudice and propaganda. Review and analysis of current concepts and experimentation in the field.

**Prerequisites: PSYC 110 or PSYC 111**

#### **PSYC 216 DEVELOPMENTAL PSYCHOLOGY - 3 semester hours**

This is a course that aims to develop a comprehensive theoretical base in developmental psychology. Complex processes of human development throughout the life span will be analyzed in systematic form and the major premises of developmental theorists will be critically examined. Supplemented by required observation and participation in the Human Development and Learning Laboratory.

#### **PSYC 305 PRACTICUM - 8 HRS. PRACTICE - 2 semester hours**

Supervised field experience in mental health.

#### **PSYC 309 EXPERIMENTAL PSYCHOLOGY LABORATORY**

Experiments conducted that illustrate techniques of control and statistical analysis in various areas of psychology. Focuses on human performance and equipment and laboratory procedures used in the measuring of this performance. Must be taken concurrently with PSYC 310.

**Prerequisite: PSYC 315 - Quantitative Methods**

**PSYC 310 EXPERIMENTAL PSYCHOLOGY - 3 semester hours**

The experimental design of psychological research involving the appropriate techniques of control and statistical data analyses. Must be taken concurrently with PSYC 309.

**Prerequisite: PSYC 315 - Quantitative Methods**

**PSYC 311 MENTAL HYGIENE - 3 semester hours**

A critical consideration of the literature on mental health and personal adjustment. Emphasis is placed on the maintenance of wholesome personal-social relations and the prevention of serious mental disturbances.

**PSYC 313 COGNITIVE BEHAVIOR AND LEARNING - 3 semester hours**

Focuses on an analysis of cognitive behavior, such as attention memory, thinking, problem solving and metacognition and theories of learning. Instructional strategies in the use of cognitive behaviors to enhance learning will be discussed. The effects of psychological variables on learning will also be examined. This course has practical applications for educators, psychologists, develop mentalists, and human service workers.

**Prerequisite: Psychology 212 or Psychology 216**

**PSYC 314 EDUCATIONAL TESTS AND MEASUREMENTS - 3 semester hours**

A study of the general field of tests and measurements including elementary statistics. Concerned with the selection and administration of group tests of mental ability, aptitude, interest, achievement and personality.

**Prerequisite: Psychology 212 or Psychology 216**

**PSYC 315 QUANTITATIVE METHODS IN PSYCHOLOGY - 3 semester hours**

A general introductory course to the study of methods and techniques of research in psychology with emphasis upon research design and statistical concepts. Some automatic data processing experience is also provided.

**Prerequisite: STAT 210**

**PSYC 316 ABNORMAL PSYCHOLOGY - 3 semester hours**

A study of the origins and symptoms of psychopathological behavior. This course considers psychopathology from the major theoretical perspectives. The course is supplemented by required observations at Central State Hospital.

**Prerequisites: Psychology 111 and 216**

**PSYC 318 APPLIED PSYCHOLOGY - 3 semester hours**

The application of psychological research in the solution of specific problems. Emphasis upon psychology in industry (training, human engineering, fatigue, other conditions affecting work) and in advertising (attention, motivation, imagery appeal).

**PSYC 324 PROBLEMS IN PSYCHOLOGY - 2-4 semester hours**

A study of problems in psychology by intensive reading of the major periodicals and classical works in the field. Provides the student with the opportunity to pursue a research project through independent study.

**PSYC 325 PERSONALITY DEVELOPMENT - 3 semester hours**

A survey of theory and research on the development of the personality. Primary emphasis is upon the factors that shape personality. Class projects involve some laboratory work with children.

**Prerequisites: Psychology 110 or Psychology 111 and consent of instructor.**

**PSYC 400 SENIOR SEMINAR - 3 semester hours**

An integrative course designed to show the relationship among the separate courses pursued by the student in the undergraduate experience. The course provides an in-depth review of some of the major concepts and issues in psychology.

**Prerequisite: Senior status as a Psychology Major**

**PSYC 401 TOPICS IN PSYCHOLOGY - 3 semester hours**

Involves a critical discussion of current theoretical and experimental issues in four areas of psychology: African-American experiences, Spiritual Experiences, Adulthood and Aging, and Selected Issues in Psychology. One topic will be offered each semester, and the course may be repeated once for credit.

**PSYC 402 BLACK PSYCHOLOGY - 3 semester hours**

This course provides an introduction to the theory, research, and practice relative to the study of psychosocial experience from the unique worldview framework of the history and culture of African people. Emphasis will be given to such issues as the African/African-American and European/European-American worldviews and the manner in which cross cultural systems of social reality impact the Black experience in America, theories of African/Black personality, psychological health and mental disorder, family and social relationships, community functioning and cultural infrastructure development, and the nature, function and impact of White/European supremacy domination.

**Prerequisites:** PSYC 101 and **Jr. or Sr. Standing and consent of Instructor**

**PSYC 403 PSYCHOLOGY OF THE SPIRITUAL EXPERIENCE - 3 semester hours**

This course introduces students to the study and interpretation of spiritual experiences throughout the history of psychology, and explores what is now called Transpersonal Psychology. Historically, this subject matter has included religious and "mystical" experiences, and altered states of consciousness. Students will be exposed to the thoughts on these topics by major figures in psychology, philosophy, and theology, including Freud, James, Jung, Huxley, Wilber, Maslow, Frankl, Campbell, and Tillich.

**Prerequisite:** **Jr. or Sr. Standing and consent of Instructor**

**PSYC 404 PSYCHOLOGY OF RELATIONSHIPS - 3 semester hours**

This course is an in-depth study of relationship science. It includes coverage of the major issues involved in attraction, the basic processes that underlie intimate relationships (such as communication and interdependency), common relationship issues (such as jealousy, betrayal, & conflict), intimacy, and relationship management & loss. This course will also introduce students to the standard methods employed in studying intimate relationships.

**Prerequisites:** **Jr. or Sr. Standing and consent of Instructor**

**PSYC 405 FORENSIC PSYCHOLOGY - 3 semester hours**

The topics studied by forensic psychologists vary widely. They range from the effects of drugs on behavior, to criminal behavior, juvenile delinquency, psychopathology, and profiling serial killers, just to name a few. The goal of this course is to introduce students to some representative areas of forensic psychology and to explore how forensic psychologists contribute to the legal system. Students are introduced to the methods used by forensic psychologists to explain behavior by examining a number of studies devoted to topics related to forensic psychology.

**Prerequisites:** PSYC 101 and PSYC 316 **Jr. or Sr. Standing and consent of Instructor**

**PSYC 406 OBESITY IN CHILDHOOD - 3 semester hours**

The course will introduce students to psychosocial factors that contribute to childhood obesity. Students will develop an understanding of why childhood obesity is a risk factor for chronic illnesses. The course will involve extensive use of empirical studies.

**Prerequisites:** PSYC 216 and PSYC 310 **Jr. or Sr. Standing and consent of Instructor**

**PSYC 407 HEALTH PSYCHOLOGY – 3 semester hours**

This introduction to health psychology provides a general overview of the discipline of health psychology, including its origins, concepts and methods. A number of types of intervention efforts will be explored, including risk factor modification, secondary preventive/rehabilitative efforts for chronic illness and community/ public health interventions. Some of the major areas and topics in health psychology are explored, such as stress, chronic and acute diseases, substance use and abuse. Students will acquire skills and knowledge that should enhance their critical thinking and understanding the relationship of thought's, emotions, motivations, and actions on human health. Students will learn to apply health promotion and disease prevention theory, concepts and methods to real life situations.

**Prerequisites: PSYC 101 and Jr. or Sr. Standing and consent of Instructor**

**PSYC 410 INTRODUCTION TO PSYCHOLOGICAL TESTING - 4 semester hours**

Focuses on supervised intellectual assessment of children and adults using such instruments as WAIS, WISC, WPPSI and Stanford-Binet. Relevant literature on the concept of intelligence and test construction is required reading.

**Prerequisites: PSYC 216 and department permission**

**PSYC 411 DIAGNOSTIC PROCEDURES FOR EXCEPTIONAL CHILDREN - 4 semester hours**

A study of psycho-diagnostic procedures useful in evaluating the abilities of exceptional children and youth. Includes how to select and administer appropriate tests of intelligence, personality, and specific disabilities, and how to utilize the findings in planning pupil experience.

**Prerequisite: Psychology 410**

**PSYC 412 PHYSIOLOGICAL PSYCHOLOGY - 3 semester hours**

A study of the physiological systems of the human organism as a basis for psychological reactions, with special reference to the endocrine and central nervous systems.

**Prerequisites: Biology 315 and 316**

**PSYC 413 HISTORY AND SYSTEMS OF PSYCHOLOGY - 3 semester hours**

The history of scientific psychology through a critical analysis of the major psychological systems, stressing the problems, methods, and contribution of each and the philosophical and physiological foundations of the discipline.

**Prerequisite: Senior or graduate status**

**PSYC 414 PERCEPTION - 3 semester hours**

The various theories of perception and the experimental research relating to them.

**PSYC 415 CULTURE AND PERSONALITY - 3 semester hours**

A course designed to enhance the general education of students regardless of their majors. A cross- culture approach to the study of personality and national character by examining the value systems, institutions, culture traits and child rearing practices of diverse cultures.

**Prerequisite: Junior status or above**

**PSYC 416 THE TEACHING OF PSYCHOLOGY IN SECONDARY SCHOOL - 3 semester hours**

Focuses on methods and materials of instruction in psychology at the secondary level, with emphasis on the design of laboratory activities. The implementation of ethical principles and arrangement of major topics within psychology under the core areas. Students will explore lecture, discussion inquiry, audiovisual presentations, core history analysis, role playing, simulation, field work, demonstration, experiments, research projects as techniques for making abstract conceptions of psychology more accessible.

**PSYC 417 PSYCHOLOGICAL DEVELOPMENT THROUGH THE PRIMARY YEARS****3 semester hours**

A course designed for teachers seeking certification in early childhood education (K-3), and for those students pursuing the master's degree in early childhood education. Aims to develop an understanding of psychological growth and personality development during the first decade of life. Not open to students having credit for Psychology 117.

**PSYC 418 PSYCHOLOGY OF THE DISADVANTAGED - 3 semester hours**

A course examining the dynamics of the behavior of disadvantaged groups. After an analysis of major historical revolutions, the focus is turned to contemporary groups who occupy disadvantaged positions in American society.

**Prerequisite:** Upper class or graduate status

**PSYC 419 INTRODUCTION TO SCHOOL PSYCHOLOGY - 3 semester hours**

A course designed to acquaint the student with educational policies and procedures and the role of the school psychologist.

**PSYC 420 DRUGS AND BEHAVIOR - 3 semester hours**

A course designed to aid students in understanding the chemistry of certain drugs and their effects upon the organism as well as the psychological changes that accompany them, and to aid service providers in dealing constructively with the problem.

**Prerequisite:** Junior status and above

**PSYC 421 LANGUAGE AND COGNITIVE DEVELOPMENT - 3 semester hours**

An overview of recent advances in the understanding of language acquisition and cognitive development in the child. It emphasizes several major theoretical positions and associated empirical works.

**Prerequisite:** Junior status and above

**PSYC 424 RESEARCH IN PSYCHOLOGY - 3 semester hours**

A course designed to provide the student with the opportunity to pursue an original research project through independent study. Emphasis is placed upon planning and conducting research, analyzing and interpreting data, and communicating about research.

**Prerequisite:** Department permission

**PSYC 429 CRISIS INTERVENTION STRATEGIES - 3 semester hours**

A course designed primarily to give students an opportunity to learn how to select and utilize psychological knowledge for the determination of appropriate strategies for crisis intervention situations. The course is supplemented by field work in selected agencies.

**PSYC 430 THE CLINICAL INTERVIEW - 3 semester hours**

A seminar designed to provide an understanding of the relationship of theory to practical experience and skill-building in the use of the interview process. Emphasis is upon employing the interview to establish and maintain support with human service recipients.

**Prerequisite:** Consent of instructor

**DEPARTMENT OF PSYCHOLOGY**  
**Bachelor of Science Degree in Psychology**

<b>FRESHMAN YEAR</b>		1st Sem	2nd Sem	Total Hours
PSYC 110	Introduction To Psych. I	3	-	3
BIO 120	Biological Science Lab	4	-	4
HIST 122 OR 123	U.S. History	3	-	3
MATH 120	College Algebra And Trig.	3	-	3
ENGL 110	Composition I	3	-	3
PSYC 111	Introduction To Psych. II	-	3	3
ENGL 111	Composition II	-	3	3
HUMANITIES ELECTIVE	(Not Philosophy)	-	3	3
STAT 210	Elementary Statistic	-	3	3
HPER 170	Health And Wellness	-	2	1
HPER 170	Physical Education Elective		1	1
	<b>Totals</b>	<b>16</b>	<b>15</b>	<b>31</b>
<b>SOPHOMORE</b>				
HIST 114 OR HIST 115	World History	3	-	3
ENGL 201	Intro To Literature		-	3
PSYC 216	Developmental Psychology	3	-	3
PSYC 315	Quantitative Methods	3	-	3
RESTRICTED ELECTIVE	Natural or Health Science	3	-	3
GLOBAL STUDIES	200 Level Or Above	-	3	3
PSYC 214	Social Psychology	-	3	3
GEEN 310	Advanced Comm. Skills	-	3	3
PSYC 310	Experimental Psychology	-	3	3
PSYCH 309	Experimental Psych Lab	-	1	1
UNRESTRICTED ELECTIVE	Unrestricted Elective	-	3	3
	<b>Totals</b>	<b>15</b>	<b>16</b>	<b>31</b>
<b>JUNIOR YEAR</b>				
PHIL 140	Philosophy	3	-	3
PSYCHOLOGY ELECTIVE	Psychology Elective	3	-	3
PSYC 325	Personality Development	3	-	3
BIOL 318	Hum. Anatomy & Physiology I	3	-	3
GLOBAL STUDIES	Course Level 200 Or Above	3	-	3
PSYCHOLOGY ELECTIVE	Psychology Elective	-	3	3
PHIL 180 OR PHIL 220	Critical Thinking Or Logic	-	3	3
BIOLOGY 319	Hum. Ana. & Physiology II	-	3	3
UNRESTRICTED ELECTIVE	Unrestricted Elective	-	3	3
PSYC 316	Abnormal Psychology	-	3	3
	<b>Totals</b>	<b>15</b>	<b>15</b>	<b>30</b>

<b>SENIOR YEAR</b>				
HPER	Physical Education Elective	1	-	1
SOCIAL SCIENCE	Restrictive Elective	3	-	3
UNRESTRICTED ELECTIVE	Unrestricted Elective	3	-	3
UNRESTRICTED ELECTIVE	Unrestricted Elective	3		3
PSYC 412	Physiological Psychology	3	-	3
PSYC 314	Test And Measurements	3		3
UNRESTRICTED ELECTIVE	Unrestricted Elective	-	3	3
UNRESTRICTED ELECTIVE	Unrestricted Elective	-	3	3
SOCIAL SCIENCE	Social Science Elective	-	3	3
PSYC 413	History And Systems	-	3	3
	<b>Totals</b>	<b>16</b>	<b>12</b>	<b>28</b>

**Total Program Semester Hours 120**

## GENERAL INFORMATION

### Financial

#### *Tuition and Fee Charges*

Payment of tuition, fees, and other charges owed to Virginia State University is the responsibility of the student. Failure to pay tuition and fees could result in administrative withdrawal from the university. The university will hold transcripts and block registration for students who fail to pay fees, fines, damages. Collection agencies also may be used by the university to collect unpaid fees or fines.

#### *In-State Tuition Eligibility*

All applicants who desire to qualify for in-state tuition rates under Section 23-7.4 of the Code of Virginia, must complete the domicile eligibility form which may be obtained from the Office of Student Activities.

### Library

Located in the center of campus, Johnston Memorial Library houses primary and secondary materials needed to support the academic and research programs of the University. It provides a full complement of research and information services to the University community. The Library contains approximately 280,200 monographs, approximately 1,200 periodicals and newspapers, 704,983 microform pieces, 81,153 audiovisual pieces including government publication and musical scores.

The Library participates in a statewide electronic resource sharing consortium, the Virtual Library of Virginia (VIVA). The Library provides local and remote access to 180 databases, over 8,800 full text journals and newspapers, nearly 10,000 full text works of poetry and verse drama, and over 300,000 additional full text materials, including statistical reports and pamphlets. In-house and remote access to the book and serial collections is provided by the VTLS Online Public Access Catalog (OPAC) with special services for the visually impaired. The library management systems have been in operation since 1989 and supports cataloging, serials, circulation, reserved materials and provides access to the online public access catalog.

The Instructional Materials Lab houses videos, laserdisc, audiotapes and other media. A wheel chair accessible multimedia workstation is available for use.

The Library has seating capacity for 600 students and shelving capacity for approximately 300,000 books. Facilities include exhibit areas, conference and study rooms, and individual study carrels. Selected study rooms are equipped for computer access. The Library also has two Internet search labs and a bibliographic instruction lab with over 50 computers for research use.

Full reference service is available to the entire University community. The Reference Department provides interlibrary loan services through cooperative lending agreements. The Special Collections Department, with a full-time archivist, contains historical documents, memorabilia, and artifacts, which are available to both the campus community and other researchers. The Library has a separate Instructional Materials Laboratory, containing films, slides cassettes, CD ROMs, laser disks, and videos which faculty and students can use for presentations. A full multimedia workstation is also available for wheel chair accessibility. In addition, the Library has a Kurzweil machine and large print software for the visually impaired.

The Library is a selective depository for United States and Virginia government publications. The collection of more than 197,079 federal and state documents offers a wealth of information.

Johnston Memorial Library is handicapped accessible.

## **Student Services**

In support of the academic mission of the University, Student Affairs efforts are directed toward creating an environment in which students' personal and professional goals are actualized. In that there is a generally acceptable knowledge that students' physical, psychological, intellectual, and social needs are developing simultaneously, all programs and services are aimed at assisting the student develop as a complete individual, capable of functioning responsibly within their academic environment and in the society in which he/she will ultimately live.

## **Career Planning and Placement**

The Career Planning and Placement Center is a vital part of the educational and student development process at Virginia State University. It provides career planning and placement assistance to students and graduates. The Center serves as a vehicle in interpreting the University's programs and promoting the attributes of its graduates to business, industry and government. The major aim of the Center is to assist students in obtaining the most benefits possible from their college education through satisfying career placement upon graduation.

The objectives of the Center are achieved through a well-rounded program which provides students with a resource library containing video and printed materials, automated resume' preparation and a job referral system, on-campus interview, workshops and seminars on job search skills, and interviewing techniques.

## **Federal Programs**

Through federal grants, the University provides special academic and counseling support services to eligible university students, high school students, and dropouts from the community. These services are available through the University's Educational Talent Search, Upward Bound, and Student Support Services Program. For more information about these programs, contact the specific program area.

## **Immunizations**

Virginia State University requires a physical examination for all first-time enrollees (freshmen transfer and graduate students) as well as a health history and immunization record to be submitted to Student Health Service prior to registration for classes. Any student who cannot produce an up-to-date immunization record must be reimmunized at his/her expense. Registration cannot be completed until the Student Health Service Health Evaluation Form is completed.

## **Insurance**

Health and accident insurance is strongly encouraged for full-time students. Students who have no coverage, may enroll in the University Plan. Students who wish to supplement their existing coverage, may enroll in the University-sponsored insurance plan. The plan is honored worldwide and is valid twenty-four (24) hours a day.

## **National Student Exchange**

The National Student Exchange (NSE) is a program for undergraduate exchange within the United States, its territories and Canada. Through NSE, participants can study for up to two semesters at one of more than 200 colleges and universities participating in the program. Students will be able to take advantage of courses, concentrations, programs of study, and other academic options not available to them at VSU. NSE also offers increased opportunities for cultural awareness, personal growth, exploration of graduate schools, career opportunities and travel.

VSU is a Plan B institution, which means tuition & fees are paid to Virginia State University and room & board is paid to the host institution. Virginia State University students who participate in the NSE program

remain as degree-seeking, registered students at Virginia State University. Any financial aid that is normally available can be applied to the exchange obligations. Because NSE is an officially approved program of the University, all courses with their respective credit hours will be recorded on the Virginia State University transcript.

### **New Student Orientation Program**

The New Student Orientation Program (NSOP) is designed to introduce incoming freshmen and other new students to the University to academic and other support resources and to general expectations, all designed to promote a good early start and to increase each student's potential for academic success.

University-wide collaboration for academic advisement, registration, and a comprehensive introduction to campus life are main components of the program. Students are informed about facilities, resources, and support services available at the University.

All new freshmen who have received official notification of acceptance to the University are required to participate in the New Student Orientation Program. NSOP sessions are scheduled for each academic year.

### **Academic Center for Excellence (ACE)**

ACE focuses on the goal of improving student retention and graduation rates at the University. ACE has three key academic components to provide students with the support and tools they need to be successful: 1) Student Enhancement and Support Services ; 2) First Year Experience Program; and 3) Academic Advising and Personal Life Coaching.

### **International Student Advisement**

The International Student Advisement service assists all international students and exchange visitors with the submission of forms as needed according to the U. S. Department of Justice, Immigration and Naturalization Service. The office also sponsors field trips and campus activities to afford students the opportunity to become better acquainted with American culture and the VSU campus community.

### **Veteran Students Advisement**

The Veterans Affairs Office seeks to serve veterans and dependents by keeping them abreast of their allowances, awards, rights, privileges and responsibilities in accordance with the codes of the contract made between the University, the Veterans Administration and the U. S. Department of Education.

### **Withdrawals and General Counseling**

The staffs of ACE cannot excuse absences; but it does provide absentee notification to instructors for any student encountering an emergency that requires an absence of 3 or more days. Students wishing to discontinue studies at the University will start the withdrawal process at ACE with counselors who are understanding and will help students through the withdrawal process while ensuring that all possible options are considered for remaining at VSU.

For services, please contact ACE at Virginia State University, P.O. Box 9034 Petersburg, Virginia 23806, phone (804) 524-6755.

### **Counseling Services**

Counseling Services provides services to the student body in individual counseling, group counseling and crisis intervention. Counseling Services is located in Room 412 Memorial Hall. All services are provided by appointment and are strictly confidential.

## **Public Safety**

The Department of Police and Public Safety is charged with and dedicated to the task of protecting life and property on the campus of the University. The ultimate objective of the department is the establishment and maintenance of an environment on the campus, which is safe, sane, secure and conducive to high quality human endeavor.

## **Residence Life**

Virginia State University recognizes and emphasizes the housing of students as a vital part of the total experience of higher education. To this end, the University's residence hall program strives for the development of socially effective citizens in a democratic society. Social and educational programs within the residence halls are designed not only to enrich and enhance development, but to act as a catalyst to maximize self-control, self-discipline, and acceptance of responsibility for one's behavior. The residence hall staff members are selected individuals dedicated to making the residence halls the best possible places to live. Students are encouraged to go to them to get acquainted and to receive assistance, advice, and guidance.

## **Student Commuter Services**

The Office of Commuter Services assists students with housing, transportation, and consumer needs which are coordinated by the Director of Student Activities. The Commuter Services lounge is located on the second floor of Foster Hall. To participate one must be a full-time student in good standing with the University socially, financially, and academically with a grade point average of at least 2.5. February 15 is the application deadline. For more information, call the Office of Student Activities.

## **Student Government Association**

Through membership in the Student Government Association (SGA), all regularly enrolled students participate in the government of the University. The purpose of the SGA is to develop a spirit of cooperation in the activities of the University; develop self-expression, self-control and leadership; encourage initiative; and create an intermediary between the administration and the students in matters of general welfare. The SGA shall be the official student governing body in all matters pertaining to the common interests of the student body.

## **Student Health Service**

The Student Health Service delivers acute medical care to all VSU students. The Health Service exists to provide, in a welcoming environment, comprehensive and confidential medical care responsive to the needs of each student and consistent with the highest standards of acceptable medical practice. The focus of Virginia State University is on the promotion of good health through counseling, education and prevention of illness.

The Student Health Service is part of a multidimensional network of community health resources and makes specialty referrals for medical cases beyond its capacity.

## **Student Identification Card**

Currently enrolled students must possess a valid Student Identification Card. This card is good for four-years upon revalidation at registration. Students use this card for health service, attendance at athletic events, dining hall, special activities and other related events.

## **Substance Abuse and Sexual Assault Prevention**

The Office of Substance Abuse and Sexual Assault Prevention provides the University community with educational programming and facts about the negative effects associated with substance abuse and sexual assault. Programs and information are designed to educate students about the risks and consequences linked to alcohol and other drugs and the impact of sexual assault. Information is intended to enable students to make more informed and responsible choices and decisions. The office also publicizes information about the University Alcohol and Drug policy and Sexual Misconduct policy. Awareness events and risk-reduction programs are planned throughout the year and co-sponsored with other departments and student organizations to elicit campus-wide support in helping prevent substance abuse and sexual assault on campus. Assistance and counseling are offered to students with substance abuse or sexual assault related problems.

## INSTRUCTIONAL FACULTY

Note: The parenthetical date indicates the year of the individual's appointment to the faculty.

ADEYEMI, Cheryl M. (2004), Associate Professor, Mathematics and Computer Economics. B.S., The Ohio State University; M.A., The Ohio State University; M.S.(equivalent) Illinois State University; Ph.D., Illinois State University.

ADEBAYO, Arinola (2015). Associate Professor, Accounting and Finance. B.S. Arkansas State University; M.B.A. Radford University; Ph.D. Virginia Commonwealth University

ADEKOYA, Adeyemi A. (1992), Professor, Computer Information Systems. B.S., University of Lagos; M.S., Ph.D., Syracuse University.

ADOM, Kwame (1989), Instructor, Technology. B.S., Kumasi University; M.S., University of Illinois.

AGRAWAL, Krishan Murari (1969), Professor, Mathematics and Economics . B.S., M.S., University of Agra; M.S., Ph.D., University of Windsor.

AHMED, Ghyasuddin (2002), Assistant Professor, Sociology and Criminal Justice. M.A. Pakistan, M.A. University of Chicago, Ph.D. Sociology, University of Georgia.

AKBAR, Shahzad (2002), Associate Professor, Engineering and Computer Science. B.S., Lafayette College, M.S. Massachusetts Institute of Technology, Ph.D. Cornell University.

AKKALADEVI, Somashekar (2006), Associate Professor, Computer Information Systems. M.S., Ph.D., Georgia State University.

ALDRIDGE, Patricia R. (2006), Associate Professor, Education. B.A. Norfolk State University; M.S. Virginia State University; Ed.D., Nova Southeastern University.

ALLEGOOD, Kristen (2016), Instructor, Music, B.A., Emory University, M. Mus. Ed., University of Georgia, Doctorate in Music Education, Indiana University

AMARAM, Donatus Iheukwumere (1984), Professor, Management and Marketing. B.A., Howard University; M.B.A., University of Missouri; Ph.D., Ohio State University.

AMINI, Majid (2003), Professor, History and Philosophy. B.S., and Ph.D., University of London.

ANSARI, Ali A. (1991), Professor, Engineering and Computer Science. BSEE, MSEE, Ph.D., University of Texas at Arlington.

ANSARI, Jahangir (2002), Associate Professor, Engineering and Computer Science. B.S., Iran University of Science and Technology; M.S. and Ph.D., Seoul National University.

ATALAY, Asmare (1997), Professor, Agriculture Research. B.S., State University of New York at New Paltz; M.S., Ph.D., University of Missouri.

BAECKER, Diann L. (2000), Associate Professor, Languages and Literature. B.A., M.A., Ph.D., University of North Carolina at Greensboro.

BAI, Xue (1999), Professor, Computer Information Systems. B.S. Northeastern University, P. R. China; M.S. USTB, P.R. China; M.S., Ph.D. Clemson University.

BAILEY, Aishia (2002), Assistant Professor, Languages and Literature. B.A., Virginia State University; M.A., Indiana University of Pennsylvania.

BAKER, Gary (1977), Assistant Professor, Political Science and Public Administration. B.A., M.S., The Ohio State University.

BATTLE, Nishaun T. (2015). Assistant Professor, Sociology and Criminal Justice. B.A., California State University Fullerton; M.S., North Carolina Central University; Ph.D., Howard University.

BALAS, Ayse (2016). Associate Professor, Management and Marketing. B.S. Hacettepe University; M.B.A. Wright State University; Ph.D. Old Dominion University.

BAWUAH, Kwadwo (1984), Professor, Economics. B.A., Bethany College; M.B.A., Eastern Illinois University; Ph.D., Virginia Polytechnic Institute and State University.

BEAVERS, Michelle (2005), Associate Professor, Educational Administration and Supervision. B.S., M.Ed., Ph.D., Virginia Commonwealth University.

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