



2020-2021 **UNDERGRADUATE** **CATALOG**

NORFOLK STATE
UNIVERSITY

**700 Park Avenue
Norfolk, VA 23504
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IMPORTANT INFORMATION REGARDING MATRICULATION

Policies regarding the enrollment of degree-seeking (matriculating) students at Norfolk State University are listed below:

- * All students will follow the curriculum and the degree completion requirements specified in the University Catalog issued for the year of their initial enrollment as degree-seeking students.
- * The University will honor degree completion requirements specified for students in the University Catalog for the year of initial enrollment as long as such enrollment is continuous (summer semesters not included).
- * A student who does not maintain continuous enrollment (summer semesters not included) will follow the degree completion requirements specified in the University Catalog issued the year of readmission.
- * Any student under any degree program who has re-enrolled in the University after interruptions of more than two semesters will be required to apply for readmission and meet the requirements of the current catalog.
- * A student who transfers to another degree program will follow the requirements specified in the University Catalog issued for the year of the transfer to the new degree program.
- * Students are held responsible for reading and complying with the University policies contained in the Catalog.
- * The Catalog is not an unchangeable contract but, instead, an announcement of present policies only. Implicit in each student's enrollment is an agreement to comply with University rules, policies, and regulations that the University may modify to exercise properly its educational responsibility.

This document is subject to change. Current university policies are located on the university's web site at <http://www.nsu.edu/policies/>. Please refer to this website for policy updates and policies and procedures not addressed in the University Catalog.

This document is intended to adhere to all statutory regulations, State Council of Higher Education for Virginia (SCHEV) guidelines, and other official documents and pronouncements of the Commonwealth of Virginia and the Norfolk State University Board of Visitors.

The current version, as amended, is posted on the University's website.

Norfolk State University is committed to the policy that all persons will have equal access to its programs, facilities, and employment without regard to race, color, creed, religion, national origin, sex, age, marital status, disability, public assistance status, veteran status, or sexual orientation.

ACADEMIC CALENDAR

FALL SEMESTER 2020

State of the University Address/Faculty/Staff/School/Department.....	Tuesday, August 18
Meetings/Faculty Information Workshops.....	
Departmental Advising and Registration.....	Monday, August 24 – Friday, September 4
Classes Begin/Late Registration	Wednesday, August 26
Deadline for Late Registration/Adding Courses or Declaring Audit	Friday, September 4
Mini Term 1A/1C Deadline for Late Registration/Adding Courses or Declaring Audit.....	Friday, September 4
Deadline to Drop a Course and Receive 100% Refund (20/1 and Mini Term 1A/1C).....	Friday, September 4
Labor Day Holiday (No Classes).....	Monday, September 7
Mini Term 1A/1C advisory grades due (6 week session)	Monday, September 14 – Saturday, September 19
Founders Day Convocation	Friday, September 18
Deadline to Apply for December 2020 Graduation.....	Friday, September 18
At the 5th Week, First Advisory grades due (12 week session)	Monday, September 21 – Saturday, September 26
Mid Term Grading for Graduate Courses.....	Monday, October 05– Saturday, October 10
Mini-Term 1B/1D (Classes Begin).....	Wednesday, October 7
Mini-Term 1B/1D Deadline for Late Registration/Adding Courses or Declaring Audit.....	Wednesday, October 14
Deadline to Drop a Course and Receive 100% Refund (Mini Term 1B/1D).....	Wednesday, October 14
Registration for Spring 2021 Semester Begins	Monday, October 26 – Saturday, January 9
At the 10th week, Second advisory grades due (13 week session)	Monday October 26 – Saturday, October 31
Mini Term 1B/1D advisory grades due (6 week session)	Monday, October 26 – Saturday, October 31
Deadline to Drop a Course (20/1,20/1B,20/1D).....	Friday, November 6
Classes End.....	Wednesday, November 18
(Last Day to Withdraw from the University without Academic Penalty)	
Final Grades Due for December 2020 Graduates	Wednesday, November 18
Final Examination Period.....	Wednesday, November 18 – Wednesday, November 25
Deadline to Report Final Grades.....	Tuesday, December 1
COMMENCEMENT.....	TBD

Registration One-Stop Shop and Advising Services will be located in rooms 138A, 138B, 138C and 149 in the Student Center beginning Monday, August 24, 2020 thru Friday, September 4, 2020 for registration. Hours of operation will be 8:00 a.m. until 6:00 p.m. The Office of the Registrar will be in Room 138A and Financial Aid, Cashiers and Student Accounts will be in Room 149 until Friday, September 4, 2020.

Note: Academic Calendar dates are subject to change.

Visit the NSU Website at <http://www.nsu.edu/enrollment-management/registrar/calendars> for the most recent updates.

ACADEMIC CALENDAR

SPRING SEMESTER 2021

University Community/Faculty/Staff/School/Department.....	Tuesday, January 5
Meetings/ Faculty Information Workshops	
Departmental Advising and Registration.....	Friday, January 08 – Saturday, January 09
Classes Begin/Late Registration.....	Monday, January 11
Deadline for Late Registration/Adding Courses or Declaring Audit	Friday, January 15
Mini Term 2A/2C Deadline for Late Registration/Adding Courses or Declaring Audit.....	Friday, January 15
Deadline to Drop a Course and Receive 100% Refund (20/2 and Mini Term 2A/2C).....	Friday, January 15
Martin Luther King Jr. Holiday (No Classes).....	Monday, January 18
Deadline to Apply for May 2021 Graduation.....	Friday, January 29
Mini Term 2A/2C advisory grades due (7 week session).....	Monday, February 1 – Saturday, February 6
At the 5th week, First advisory grades due (15 week session).....	Monday, February 08 – Saturday, February 13
Mid Term Grading for Graduate Courses.....	Monday, February 22 – Saturday, February 27
Registration for Summer and Fall 2021 Semester.....	Monday, March 1 – Friday, June 18
Mini Term 2B/2D (Classes Begin)	Monday, March 1
Mini-Term 2B/2D Deadline for Late Registration/Add Courses or Declaring Audit.....	Friday, March 5
Deadline to Drop a Course and Received 100% Refund (Mini Term 2B/2D).....	Friday, March 5
Spring Break (No Classes).....	Monday, March 8 – Sunday, March 14
At the 10th week, Second advisory grades due (15 week session).....	Monday, March 15 – Saturday, March 20
Deadline to Drop a Course(20/2,20/2B,20/2D).....	Friday, March 26
Mini Term 2B/2D advisory grades due (7 week session)	Monday, March 29 - Saturday, April 2
Final Grades Due for May 2021 Graduates.....	Wednesday, April 21
Classes End.....	Friday, April 23
(Last Day to Withdraw from the University)	
Final Examination Period.....	Saturday, April 24 – Friday, April 30
COMMENCEMENT.....	Saturday, May 1
Deadline to Report Final Grades.....	Tuesday, May 4
Faculty Development Workshop.....	Wednesday, May 5 - Thursday, May 6

Registration One-Stop Shop and Advising Services will be located in rooms 138A, 138B, 138C and 149 in the Student Center beginning Friday, January 08, 2021 and Saturday, January 09, 2021 for registration. Hours of operation will be 8:00 a.m. until 6:00 p.m. Saturday from 9:00 a.m. until 1:00 p.m. Financial Aid, Cashiers and Student Accounts will be in Room 149 until Friday, January 15, 2021.

Note: Academic Calendar dates are subject to change. Visit the NSU Website at www.nsu.edu/enrollment-management/registrar/calendars for the most recent updates.

ACADEMIC CALENDAR

SUMMER SESSIONS 2021

MAY 17 – JUNE 25, 2021 6 WEEK TERM (TERM A)

End of Registration (Term A).....	Saturday, May 15
Classes Begin/Late Registration.....	Monday, May 17
Deadline for Late Registration/Adding Courses or Declaring Audit.....	Thursday, May 20
Deadline to Drop a Course and Receive 100% Refund.....	Thursday, May 20
Memorial Day Holiday (No Classes)	Monday, May 31
Deadline to Drop a Course.....	Tuesday, June 8
Classes End..... (Last Day to Withdraw from the University without Academic Penalty)	Thursday, June 24
Final Examination Period.....	Friday, June 25
Deadline to Report Final Grades.....	Tuesday, June 29

JUNE 28 – JULY 23, 2021 4 WEEK TERM (TERM B)

End of Registration (Term B).....	Saturday, June 26
Classes Begin/Late Registration.....	Monday, June 28
Deadline for Late Registration/Adding Courses or Declaring Audit.....	Thursday, July 1
Deadline to Drop a Course and Receive 100% Refund.....	Thursday, July 1
Deadline to Drop a Course.....	Monday, July 12
Classes End..... (Last Day to Withdraw from the University without Academic Penalty).	Thursday, July 22
Final Examination Period.....	Friday, July 23
Deadline to Report Final Grades.....	Monday, July 26

Note: Academic Calendar dates are subject to change. Visit the NSU Website at www.nsu.edu/enrollment-management/registrar/calendars for the most recent updates.

WELCOME TO NORFOLK STATE UNIVERSITY

Norfolk State College was founded in 1935. The College, brought to life in the midst of the Great Depression, provided a setting in which the youth of the region could give expression to their hopes and aspirations. At this founding, it was named the Norfolk Unit of Virginia Union University. In 1942, the College became the independent Norfolk Polytechnic College, and two years later an Act of the Virginia Legislature mandated that it become a part of Virginia State College.

The College was able to pursue an expanded mission with even greater emphasis in 1956 when another Act of the Legislature enabled the institution to offer its first Bachelor's degree. The College was separated from Virginia State College and became fully independent in 1969. Subsequent legislative acts designated the institution as a university and authorized the granting of graduate degrees. In 1979, university status was attained.

Today, the University is proud to be one of the largest predominantly black institutions in the nation. Furthermore, it is committed to pursuing its vital role of serving the people of the Hampton Roads area.

OUR MISSION

Norfolk State University, a comprehensive urban public institution, is committed to transforming students' lives through exemplary teaching, research and service. Offering a supportive academic and culturally diverse environment for all, the University empowers its students to turn their aspirations into reality and achieve their full potential as well rounded, resourceful citizens and leaders for the 21st century.

Vision Statement: Norfolk State University will be recognized nationally as a premier public institution with outstanding signature academic programs, innovative research, and community engagement opportunities.

Core Values:

1. **Excellence** - We are dedicated to fostering a culture of excellence in all facets of the University through the highest educational standards for student achievement, stellar faculty teaching, innovative research, dedicated service and creative co-curricular activities.
2. **Student-Centered** - Students are our top priority, and we are committed to helping them become globally competitive in an enriching, stimulating and supportive environment.

3. **Diversity and Inclusiveness** - We foster a multicultural campus respecting all people, cultures, ideas, beliefs, identities, socio-economic backgrounds, and perspectives. We train our students to become leaders in an ever-changing global and multicultural society.
4. **Integrity and Civility** - We expect everyone to be accountable for his or her actions and to engage in honest, ethical behavior. We value the contributions of each person, treating all with respect and civility, and affirm our shared responsibility for institutional success.
5. **Engagement** - We continually enhance the university's role and influence in affairs of local and global communities by promoting educational attainment, cultural enrichment, and economic development.
6. **Pride** - We display great admiration for the University and its rich history and legacy.
7. **Financial Empowerment** - We aggressively pursue expanded and more diversified revenue streams.

INSTITUTIONAL GOALS

Institutional goals are derived directly from the mission statement and represent the direction the University intends to pursue over the decade.

- The University shall continue to define those areas in which it can make the most effective contributions to the total educational enterprise of the community, state, nation, and the world.
- The University shall continue to utilize its assembled expertise in research and public service to develop programs specifically related to urban needs.
- The University shall continue to develop its management capability in order to provide adequate, efficient, and timely services to its constituents.
- The University shall continue to maintain an environment which encourages its graduates to assume leadership roles in the community, state, nation, and world.

ACCREDITATIONS AND AFFILIATIONS

Regional Accreditation

Norfolk State University is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award the associate, baccalaureate, master's and doctoral degrees. Contact the Southern Association of Colleges and Schools Commission on Colleges at 18666 Southern Lane, Decatur, Georgia 30033-440977 or call (404) 679-4500 for questions about the accreditation of Norfolk State University.

SPECIALIZED ACCREDITATIONS

ACCREDITING AGENCY AND DISCIPLINE
Engineering Accreditation Commission (EAC) of ABET
1. Electrical and Electronics Engineering (BS) 2. Optical Engineering (BS))
Accrediting Council on Education in Journalism and Mass Communications (ACEJMC)
3. Mass Communications - General Broadcast (BS)) 4. Mass Communications - Journalism (BS))
American Chemical Society (ACS)
5. Chemistry (BS))
Academy of Nutrition and Dietetics, Accreditation Council for Education in Nutrition and Dietetics
6. Food Science and Nutrition (BS))
American Psychological Association
7. Clinical Psychology (Ph.D.))
Association to Advance Collegiate Schools of Business (AACSB)
8. Business (BS))
Commission on Accreditation of Allied Health Education Programs, American Kinesiotherapy Association
9. Physical Education/Exercise Science (BS))
Computing Accreditation Commission of ABET
10. Computer Science (BS))
Council on Social Work Education (CSWE)
11. Social Work (B.S.W.)) 12. Social Work (M.S.W.))
National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)
13. Medical Technology (BS))

ACCREDITING AGENCY AND DISCIPLINE
The Association of Technology, Management and Applied Engineering (ATMAE)
14. Construction Management Engineering Technology (BS) 15. Computer Engineering Technology (BS)) 16. Electronic Engineering Technology (BS))
National Association of Schools of Music (NASM)
17. Music Education (B.Mus.)) 18. Music (M.Mus.))
National Council for Accreditation of Teacher Education (NCATE)
19. Art Education (BS Art)) 20. Art Education (MAT)) 21. Biology Education (BS Biology) 22. Biology Education (MAT)) 23. Chemistry Education (BS Chemistry)) 24. Chemistry Education (MAT) 25. Early Childhood/Elementary Education (BS Interdisciplinary Studies or Psychology) 26. Early Childhood/Elementary Education (MAT)) 27. English Education (BS English)) 28. English Education (MAT)) 29. Health and Physical Education (BS)) 30. History Education (BS History)) 31. History Education (MAT)) 32. Mathematics Education (BS Mathematics)) 33. Mathematics Education (MAT) 34. Pre-Elementary Education/Early Childhood Special Education (MA) 35. Special Education (BS Interdisciplinary Studies or Psychology) 36. Special Education (MA)) 37. Urban Education (MA):: School Counseling, Principal Preparation, and Curriculum Development and Supervision
Accreditation Commission for Education in Nursing, Inc. (ACEN)
38. Nursing (BS))

Affiliations
MEMBERSHIP AFFILIATION
Administrative Management Society
American Alliance for Health Education, Recreation, Physical Education and Dance
American Association for Affirmative Action
American Association of Colleges of Nursing
American Association of Colleges for Teacher Education
The Virginia Association of Teacher Educators
American Association of Collegiate Registrars and Admissions Officers
American Association of State Colleges and Universities
American Council of Construction Education
American Public Health Association
American Society of Engineering Education
American Society of Manufacturing Engineering
Association for Continuing Higher Education and Council of Graduate Schools
Association of American Colleges
Association of Governing Boards of Universities and Colleges
Association of Information Systems Professionals
Association of Virginia Colleges
Central Intercollegiate Athletic Association Cluster Program
College Placement Council Association
Conference of Southern Graduate Schools
Council for Advancement and Support of Education
Council of Historically Black Graduate Schools
Council on Social Work Education
Intercollegiate Music

Affiliations
MEMBERSHIP AFFILIATION
Intercollegiate Music Association
Mid Atlantic Association for School, College and University Staffing and Group for the Advancement of Doctorial Education
National Alliance of College/Industry Relations
National Association for Business Equal Opportunity in Higher Education
National Association for Intercollegiate Athletics
National Association for the Health Professions
National Association of College Admissions Counselors
National Association of Student Personnel
Administration National Business Education Association
National Center for Allied Health Leadership
National Collegiate Athletic Association
National League of Nursing
Norfolk Chamber of Commerce
Southern Association of Collegiate Registrars and Admissions Officers
Southern College Placement Association, Inc.
Southern Region II, ALAW
Southern Regional Education Board
Virginia Association of Health
Virginia Association of Allied College Nursing
Virginia Council of Graduate Schools
Virginia Public Health Association

CAMPUS LIBRARY

Cynthia Lynn Harrison
Dean of Library Services, Interim
Lyman Beecher Brooks Library
(757) 823-2418

The Lyman Beecher Brooks Library provides services and resources to meet the scholarly and informational needs of the Norfolk State University community. Students and faculty can access online resources, including the library catalog, electronic full-text journals, and e-books, either remotely or via any campus computer. The Reference Research area in the library not only provides research assistance, but also provides access to additional computer workstations, which students can use for research needs. The library is a member of the Virtual Library of Virginia. This cooperative effort of the libraries of colleges and universities in the state of Virginia provides cost-effective access to online resources and enhances interlibrary lending. The library has extensive journal subscriptions, including e-journals and many issues in micro format. The library is an open-stack facility with space for approximately 2,000 readers and a book capacity of 500,000 volumes. The Herbert A. Marshall Collection is also located in the Library. It is a special collection of approximately ten thousand (10,000) items pertaining to African-American history, folklore and culture.

CAMPUS ARCHIVES

Harrison Wilson Archives

The Harrison B. Wilson Archives is the repository of the historical records of the university, its faculty, alumni, and students. In addition, the archives has the mission of collecting and preserving the historical records of African-Americans in Virginia and making them available to researchers.

The African Art Gallery

The art gallery houses a collection of African art from 14 countries representing 440 groups and cultures. Included in the gallery is a reference library that features over 4400 books on African art, culture, and history.



ADMINISTRATIVE OFFICES

The administrative offices help the University carry out its mission efficiently and effectively. The University is organized into five divisions: Office of the Provost, Finance and Business, Research and Economic Development, Student Affairs, and University Advancement. Each division is led by a vice president who is responsible for implementing programs and services that are essential for the management of the University.

OFFICE OF THE PROVOST

Dr. DoVeanna Fulton

**Provost and Vice President for Academic Affairs
(757) 823-8408**

The Office of the Provost at Norfolk State University bears leadership responsibility for the academic focus of the institution. The Office plays a central role in the articulation, development, initiation and continuing support of the educational philosophy of Norfolk State University which is articulated in its mission: "Through exemplary teaching, scholarship, and outreach, Norfolk State University transforms lives and communities by empowering individuals to maximize their potential, creating lifelong learners equipped to be engaged leaders and productive global citizens."

The Office is made up of two colleges, three professional schools, an off-campus center, and academic support programs. The colleges are the College of Liberal Arts and the College of Science, Engineering, and Technology. The schools are the School of Business, the School of Education, and the Ethelyn R. Strong School of Social Work. Thirty-one bachelor's degree programs, one associate degree program, fifteen master's degree programs, and three doctoral degree programs are offered through these schools. Continuing Norfolk State University's tradition of service, the Office of the Provost promotes and encourages community involvement. The Office of the Provost provides a variety of programs and opportunities in which the students, faculty, and staff may demonstrate altruistic spirit.

The goal of student success guides all academic policies and processes. The Office of the Provost is committed to student mastery of subject matter, the acquisition of liberal knowledge, and the development of competence in students' career fields. The leadership of the Office of the Provost works in concert with the faculty to ensure that the curriculum supports the University's mission and strategic imperatives.

To that end, the Provost has developed the following goals:

- Enhance the Collegial Environment - identify correct Rules of Engagement
- Enrollment Growth in Quality and Quantity - increase student enrollment with improved quality
- Improve the freshman to sophomore retention rate and increase the Graduation Rate
- Implement Teacher/Scholar Model for the faculty
 - improve sponsored research and NSU role in economic development
- Implement Performance Based Management Model
 - ensure accountability at all levels

The implementation plan for these goals including targeted initiatives, action steps and resource needs, are available in the Office of the Provost, Suite 460, Harrison B. Wilson Hall (757) 823-8408. Programs under the Office of the Provost include, but not limited to, the programs/services which follow.

COOPERATIVE EDUCATION/ INTERNSHIP PROGRAM

Cooperative Education at Norfolk State University is a part of a nationwide college/university program that integrates academic course work with career-related, paid work experience. Cooperative Education (co-op) provides students with an answer to the question most commonly asked by recruiters of graduating seniors, WHAT EXPERIENCE HAVE YOU HAD. Co-op students will have worked in a professional environment and will have performed work assignments in chosen career fields that supplement academic studies leading to the educational degree. The cooperative plan of education, which combines theory with practice, offers the ultimate in a completely rounded and integrated educational experience.

Cooperative Education is available to undergraduates and graduate students in most academic areas. Participation in the program is open to students who have completed 30 semester hours, are in good academic standing with the University, and have a minimum 2.0 grade point average. Approval of the program director is required.

Participation in the program may earn academic credit for students enrolling in the following courses:

COURSE	CREDIT HOURS
CED 250	1
CED 350	3
CED 450	3

Interested students may request information from the following address:

Norfolk State University
Career Services Cooperative
 Education Program Student Services
 Center, Suite 318
 Norfolk, Virginia 235044
 (757) 823-8462

ROBERT NUSBAUM HONORS COLLEGE

Prof. Chinedu Okala
Dean (Interim)
(757) 823-208

The Honors College is designed to provide an enriched and challenging program of study for students who manifest exceptional academic potential; to improve the University's ability to attract such scholars; and to enrich the academic community. The Honors College currently has three component programs: the Dozoretz National Institute for Mathematics and Applied Sciences; the Parsons General Honors Program for all majors; plus ten Discipline-Specific Honors Programs. The DNIMAS program is unique. It represents a major commitment by Norfolk State University to provide the best possible education in the sciences for highly qualified and motivated students. The program features a four-week pre-matriculation summer session, intensive science curricula, research internships, field trips, projects, career counseling seminars, and a peer mentor-tutoring program. Please see the separate DNIMAS catalogue entry for admissions requirements.

Students may apply for the Parsons General Honors Program of the HHonors College upon admission as freshmen having achieved a high school grade-point average of at least 3.0 and a combined score of 1450 or more on the SAT (Math + Verbal + Writing)). If the Writing score is omitted, the MMath plus Verbal scores must equal 1000. An ACT score of 21 or more is also acceptable. These students must complete an entire Honors sequence of courses (30 hours out of the 120 normally required for graduation). NSU sophomores or rising juniors, having achieved a 3.0 or above grade-point average for all courses completed, may also apply to enter the Honors College with the goal of completing 30 hours of Honors courses, to include at least one capstone HHonors Seminar (GST 345H or GST 445H).45H).

All students in Honors courses are part of the

NSU Honors College and participate in Honors College activities.

The Discipline-Specific Honors Programs, available in a growing number of departments, are intended for students strongly committed to their majors. Students take 18 hours of Honors courses in General Education, and then 12 hours of Honors courses in their major, to include the Honors capstone course designated for that discipline.

The NSU Honors College is not an honor society but a regular facet of the University's academic offerings. Honors College students are encouraged to participate in honor societies in their respective fields. Honors College courses are open to all full-time undergraduates, including participants in other special programs such as ROTC.

Transfer Honors credits from an accredited college or university with an Honors College of its own may be substituted for no more than 9 hours of the required 18 hours, or 15 hours of the required 30. For Parsons General HHonors students, no substitution credit can be accepted for the Honors Seminar requirement. Classes designated for DNIMAS scholars within the NSU curriculum may be substituted at the discretion of the Director of DNIMAS.

In order to graduate with an Honors College special diploma, a student must meet the following criteria:

1. Parsons and DSHP students must maintain a cumulative G.P.A. of at least 3.0. DNIMAS students must maintain at least a 3.20.
2. With the exception of transfer students with an academic associate's degree, students, depending on their respective tracks, must complete at least 30 credit hours of Honors courses including at least one of the Honors Seminars (for Parsons students), a DSHP capstone course, or a DNIMAS- approved capstone course.
3. Transfer students with academic associate's degrees must complete at least 18 hours of Honors courses, including the Honors capstones designated for their respective tracks.
4. All students must earn a grade of C or above for each Honors course and a G.P.A. of at least 3.0 for all Honors courses taken (3.200 for DNIMAS students).

For additional information, please contact the Dean of Honors College at (757) 823 - 8208.

PARSONS PRESIDENTIAL AND VICE-PRESIDENTIAL SCHOLAR

In order to graduate as a PARSONS PRESIDENTIAL SCHOLARR (a designation that will appear on the student's diploma), students must meet

meet the following criteria:

- Successful completion of at least 30 credit hours of Honors courses, including at least one of the Honors seminars (GST 345H/346H or GST 445H/446H) and the community service course (SPE 497 H), with a grade of C or above for each Honors course and a G.P.A. of at least 3.0 for all Honors courses. Students are strongly encouraged to take two or more of the aforementioned Honors seminars; however, the minimum of one will be mandatory. The community service course is also mandatory for all students.
- A cumulative G.P.A. of 3.0 or above for all work completed at Norfolk State University.
- Transfer Honors credits or DNIMAS/CMR credits may be substituted for up to 15 hours of the 30-hour total, but this does not include the Honors Seminar or SPE 497H, requirements for which no substitutions can be made.

In order to graduate as a PARSONS VICE-PRESIDENTIAL SCHOLAR (a designation that will appear on the student's diploma), students must meet the following criteria:

- Active participation in the NSU Honors College.
- Successful completion of at least 15 credit hours of Honors courses, including at least one of the Honors seminars (GST 345H/346H or GST 445H/446H), with a grade of C or above for each Honors course and a G.P.A. of at least 3.0 for all Honors courses.
- A cumulative G.P.A. of 3.0 or above for all work completed at Norfolk State University.

Transfer Honors credits from an accredited college or university with an Honors College of its own may be substituted for no more than 9 hours of the above 15. No substitution credit can be accepted for the Honors Seminar requirement.

Classes designated exclusively for DNIMAS or CMR scholars within the NSU curriculum may be substituted for up to 9 credit hours of the above, excluding the Honors Seminar requirement for which there is no substitution.

Because the Honors Seminars (GST 345H/346H and GST 445H/446H) may only be taken by juniors and seniors, students who have matriculated for an Associate Degree only cannot graduate as Parsons Vice-Presidential Scholars.

For additional information, please contact the Director of the Honors College at (757) 823-8208.

INTER-INSTITUTIONAL EXCHANGE PROGRAM WITH OLD DOMINION UNIVERSITY

Norfolk State University students have the opportunity to take courses at Old Dominion University through a student exchange program.

Graduate and undergraduate students are eligible to participate in the Exchange Program. For degree purposes, credits earned will be considered resident credit at the home institution. Courses taken at ODU under this program will be considered the same as Norfolk State University courses; all other courses taken at ODU are subject to Transfer Credit Policy limitations. Registration under this program is limited to students with a cumulative grade point average of 2.1 or better. The approval of the school dean is required. The Registrar at each institution will register a student for courses at the other institution if the student presents a form properly signed by the appropriate university officials. The student exchange will be honored both in regular sessions and in the summer session.

Regular bus service between campuses is provided during the regular session but is not available for evening classes or the summer session.

VIRGINIA TIDEWATER CONSORTIUM CROSS REGISTRATION PROGRAM

Norfolk State University students may also take undergraduate courses at any of the following Tidewater institutions: Christopher Newport University (Newport News), Hampton University (Hampton), Paul D. Camp Community College (all campuses), Regent University (Virginia Beach), Thomas Nelson Community College (Newport News), Tidewater Community College (all campuses), and Virginia Wesleyan College (Norfolk).

The following regulations apply to cross registration:

- Cross registration is limited to declared majors with cumulative grade point averages of 2.00 or better.
- Cross registration is limited to 30 semester hours.
- Cross registration is normally limited to courses not available to students at the home institution during the current semester.

For further information, contact the Office of the Registrar at (757) 823-8229.

INTERNSHIP/ SUMMER POSITIONS

Students participate in full-time work assignments during the summer with no requirement to return for a second work period, although the option to do so may be available. Assignment must be major/career related. Also, an assignment can be paid or unpaid.

OFFICE OF INFORMATION TECHNOLOGY (OIT)

(757) 823-8678 - Help Desk

The Office of Information Technology (OIT) manages the administrative and academic information technology resources for Norfolk State University. OIT provides ubiquitous access to technology over a highly secured wired and wireless CISCO-based network, utilizing a gigabit fiber optic backbone for voice, video, data, and security. A port-per-pillow, computer labs, and wireless access are provided in all the residence halls.

The Enterprise Information Systems (EIS) administrative computing unit includes the Student Information System (Datatel/Colleague), the Financial Administration System (IFAS), and university web development. SpartanShield is a Datatel web-based tool for online registration, grades, unofficial transcripts, financial aid information, and online payments.

OIT also works closely with the Office of Extended Learning and the Division of Financial Services on Blackboard's course management and dining and vending systems.

NSU's state-of-the-art Data Center houses over 100 enterprise-wide servers and a supercomputing Internet2 environment managed through a high-end Networking Operations and Security Center. The new Virtualization and Collaboration Center provides an environment conducive for onsite and remote collaborations, visualization, and training in support of a wide variety of opportunities.

E-mail is provided through a Microsoft Exchange Enterprise Email System.

Television/video/multimedia technology specialists provide on-site event coverage and production support to meet both institutional and instructional needs of the University. The Telecommunications Unit is responsible for all telecommunication services on campus, including cellular and desk phones. The development of a Supercomputing environment using Internet2 in the new McDermond Center provides NSU with the latest cutting edge technology for research.

Faculty and Staff receive IFAS, Colleague, technical, and applications software training through the ITS Training unit. Since flexibility is a key consideration, various types of training are offered including: general classroom, departmental, one-to-one, and online tutorials.

Faculty, students, and staff of Norfolk State University must comply with all University, Office of Information Technology (OIT), and school/department policies and procedures relating to the use of technological resources operated for administrative, academic/ instructional, and research purposes. Current University and OIT policies are found at the following websites: <http://www.nsu.edu/policies/> and <http://www.nsu.edu/its/policies>

RESERVE OFFICERS TRAINING CORPS PROGRAMS

AROTC

The Army Reserve Officers Training Corps (ROTC) was established at Norfolk State University on July 1, 1948, in the Military Science Department. Army ROTC is one of the best leadership courses in the country and is part of the college curriculum. During classes and field training, students will learn first-hand what it takes to lead others, motivate groups, and how to conduct missions as an officer in the Army. Upon graduation from Army ROTC, students will earn the bar of a Second Lieutenant and become a leader for life.

NROTC

The Naval Reserve Officers Training Corps (NROTC) was established at Norfolk State University in July 1982, in the Naval Science Department. The mission of the Naval Science Department is to develop selected university educated men and women morally, mentally, and physically and to imbue them with the highest ideals of duty, honor, and loyalty in order to commission them as officers who possess a basic professional background. Also, these men and women are motivated towards careers in the naval service and have the potential for further development in mind and character to assure the highest responsibilities of command, citizenship, and government.

OFF-CAMPUS CENTER

Dennis Montgomery, J.D., Director
Virginia Beach Higher Education Center (VBHEC)
1 (757) 368-4150
Email: dmontgomery@nsu.edu

The mission of NSU programs and services at the VBHEC is to provide educational opportunities and outreach services for traditional and non-traditional students with special emphasis placed upon the adult lifelong learner. Additionally, VBHEC strives to develop and disseminate educational programming, training programs, and selected technological information to its adult constituents outside the traditional credit delivery formats.

The Virginia Beach Higher Education Center, operated cooperatively by Norfolk State University and Old Dominion University, offers graduate-level courses for Norfolk State University in criminal justice, secondary education, urban education (counseling), and social work. Undergraduate courses and a number of continuing education (non-credit) offerings are also available. This Center offers administrative services, including academic counseling and course registration. Courses offered at the ODU/NSU Higher Education Center are listed with section number 85.

The goal of the Center is to strengthen the skills of the adult learner through educational opportunities in workforce development, leadership, competitive education programs, continuing education, and business and community partnerships.

The Center focuses on meeting the needs of non-traditional students and offers weekend and evening courses. Other programs located at VBHEC are Spartan Prep Academy, Military Education Programs, the Reclamation Project, and the Criminal Justice Master's degree program. Other credit classes taught at VBHEC include - Interdisciplinary Studies, Urban Education, History, Nursing, Business, English, Psychology and Social Work. Courses are offered using a variety of modalities including, but not limited to, face to face, online, and videoconferencing. Non-credit continuing education certificate courses and programs are offered year round. The VBHEC is also used for special events such as the Annual Women's Conference. Community groups, school systems, and government agencies also host various events at this location.

Spartan Prep Academy

Spartan Prep Academy is a college awareness program to introduce Virginia Beach City Public School students to the many advantages of continuing their education beyond high school and to the specific programs available at Norfolk State University (NSU). This partnership between Norfolk State University at the Virginia Beach High Education Center (VBHEC) and Virginia Beach City Public Schools is designed to increase the enrollment of minority students from Virginia Beach City Public Schools in post-secondary institutions. The goal of this initiative is to introduce students from Virginia Beach City Public Schools to careers and educational opportunities available at NSU. The vision of Spartan Prep is to help adolescents by offering exposure to the academic experience, the taking care of "college business" experience, and the "college life" experience.

NSU Reclamation Project

The Norfolk State University's Reclamation Project was launched in 1999. The Project's purpose is to facilitate the continuing education and subsequent graduation of former NSU students who left the University prior to completing all academic requirements for the bachelor's degree. The Reclamation Project is designed for students to take full advantage of technology while maintaining the academic integrity and intellectual rigor of the University. Among the methodologies for possible degree completion are web-based and lecture-enhanced instruction, independent study, and traditional classroom instruction offered at the NSU main campus (Norfolk), the Virginia Beach Higher Education Center (Virginia Beach), and other accredited institutions of higher learning. Coursework completed at other accredited institutions of higher learning can usually be transferred to NSU for credit toward the undergraduate degree provided that a letter grade of "C" or better is earned. The three requirements

for returning to Norfolk State University via the Reclamation Project are the student: 1) must be a former NSU student, (2) must be 24 years of age or older and (3) must not have taken any courses at Norfolk State during the immediate past five years.

OFFICE OF EXTENDED LEARNING

Dr. Dorothy Jones, Director
(757) 368-8661

Website: www.nsu.edu/Academics/Academic-program/

Email: ael@nsu.edu

Norfolk State University's Office of Extended Learning (OEL) works with the academic and administrative units of the University. It offers coursework through online, blended and video conferencing.

The Office of Extended Learning

The Office of Extended Learning provides coordination and support services to Norfolk State University's educational divisions to comprehensively infuse technology across the curriculum utilizing electronic learning initiatives that include distance learning, blended learning, and face-to-face instructional technology. This office is also responsible for certifying faculty as online instructors as well as providing Blackboard instructional training for faculty and students alike.

Military Education Programs

NSU is ranked within the top 20% of Military Friendly Schools/Colleges across the United States for the third year in a row. NSU was able to accomplish this goal based on a number of factors that include military affiliated students being able to access financial aid programs, active duty military able to use military tuition assistance, and support of education benefits for military spouses and dependents. In addition, the availability of military friendly distance learning and online degree programs, participation in the MyCAA program, proximity to a military base, various military bases throughout the region with representative outreach, and NSU having an excellent academic accreditation. Not to mention, NSU assists in the ease of acquiring military student scholarships, discounts, and grants.

Navy College Distance Learning

Program Partnership (NCDLP) Interdisciplinary Studies Program (120 credits)

A program designed for military and civilian students. Military students may transfer-in up to 90 credits of military experience and training, CLEP/DANTES examinations and other college credits. Students may combine classroom instruction with Web-Based/Online courses. A strong Liberal Arts Degree provides foundations in many disciplines such as Management, Administration & Supervision, Leadership, Social Science, Education, Engineering, and Technology.

Urban Education Community Counseling Naval Base Program

Urban Education Community Counseling (UEDCC) is a Master of Arts, 39 credit, degree program designed for persons seeking a position in community counseling. Classes are held throughout the year consisting of 5- nine-week sessions. The program seeks military and civilian students who are engaged in individual and group counseling, academic advising, career development and training, and positions in human services. The goal of the program is to graduate an s significant number of individuals in the counseling profession, whose education and experience at Norfolk State University will have a positive impact on mankind, resulting in changed lives in the greater community.

Criminal Justice Master's Degree Program

The Master of Arts in Criminal Justice consists of a core of five courses (15 credit hours) that set the foundation and parameters for specialization in two concentrations: (1) Management and Planning or (2) Juvenile Justice. For more information, please contact:

Dr. David Spinner, Program Coordinator

Virginia Beach Higher Education Center
Norfolk State University
1881 University Drive, RM 268
Virginia Beach, Virginia 23453
Phone: (757) 368-6369; Fax: (757)
368-4381 Email: criminaljustice@nsu.edu

DIVISION OF FINANCE AND ADMINISTRATION

Mr. Gerald Hunter Vice President for Finance and Administration (757) 823-8011

The Division of Finance and Administration provides leadership for the administration of the institution's fiscal and business services and protects its financial and capital resources. These services include providing leadership for an array of initiatives and services that sustain and enhance the University's living, learning, and working environments for students, faculty, and staff. The Division's priorities and goals are service oriented attitude, operational efficiency and effectiveness, and financial accountability. The institution's commitment to academic excellence and fiscal soundness is reflected in its stewardship of resources, integrity in activities and customer- friendly interactions with constituents.

The Division ensures that the University complies with applicable state and federal requirements and sustains credible fiscal and operational management. The Division's support services include Administration; Auxiliary Services; Bursar; Controller; Environmental Health, Safety and Risk Management; Facilities Management; Finance; Human Resources; Parking and Transportation Services; Procurement Services, and University Police. As the University maintains its credibility as a well-managed, fiscally sound institution of higher education, its goal is to promote greater efficiency and effectiveness in administration, while taking a proactive approach to emerging issues and new challenges.

BOOKSTORE

The Bookstore is a service element owned by Norfolk State University and operated by Barnes and Noble Bookstore. It is located in the New Student Center. The Bookstore provides the University community with the widest possible selection of goods and services at competitive prices, with particular attention being paid to academic requirements.

FACILITIES MANAGEMENT DEPARTMENT

The Facilities Management Department has four major areas, namely Operations and Maintenance, Capital Planning and Improvements, Administrative Services and Environmental Health, Safety and Risk Management. The area of Operations and Maintenance provides services needed to operate and maintain all university facilities. These services are provided by carpenters, painters, mason plasterers, plumbers, electricians, HVAC mechanics, locksmiths, housekeeping workers, grounds persons, laborers, engineers, administrative, work management center, and supervisory personnel. The Department is also responsible for electrical and other utilities distribution. In addition to operating and maintaining the facility plant, the department provides labor services such as sound setups and moving and hauling for the entire university community.

The area of Capital Planning and Improvements provides services for space utilization, design, planning, bidding, and contracting services for capital outlay projects and minor renovations and alterations to existing facilities.

The area of Administrative Services provides financial, budgeting, and administrative services to the operating units within facilities. Services provided include budget, finance, payroll, postal services, inventory control, property disposal, receiving, warehousing, billing, payment of all utility and vendor invoices, construction contract administration, and funding for all new planning and construction projects.

The area of Environmental Health, Safety and Risk Management provides oversight to mandated programs; provides safety consultations to faculty and staff, and conducts training, incident investigations; monitors and coordinates evaluations for fire safety systems; manages liability and property damage claims; appraises and issues certificates of insurance coverage; coordinates hazardous waste storage and disposal. This area also designs and assesses response procedures for emergency situations.

DINING SERVICES

NSU Dining Services prepares home-style cooked meals for meal plan participants and customers. Meals are served at Scott Dozier Dining Hall and West Dining Hall, which are conveniently located for students. Traditional meals are also served in the Faculty Dining Hall located adjacent to Scott Dozier Hall. All facilities are operated by Thompson Hospitality/Compass Group.

NSU Dining Services offers branded retail outlets such as Pizza Hut, Freshens, Origins, Coyote Jacks Grill, and Chick-fil-A. These retail dining areas are conveniently located on campus. The Spartan Station

Food Court located at the Student Service Center provides specialty fast food and beverages for staff and students. NSU Dining Services also sponsors two Campus C-Stores to meet the needs of staff and students. There is an Outtakes Kiosk located in Wilson Hall Administration Building.

Catering services also are provided by NSU Dining Services. It is committed to accommodating customers and students with quality products and to providing incomparable service.

INCLEMENT WEATHER

Decisions to close the University due to inclement weather will be made by the Vice President for Finance and Business in consultation with the President and other vice presidents. The decision to close Norfolk State University will be communicated by the Acting Executive Director of Communications and Marketing via the area's media outlets.

During times of inclement weather (e.g., hurricanes, tornadoes, etc.) employees and students may obtain information regarding NSU closing and cancellation of classes from the following:

RADIO STATIONS	TELEVISION STATIONS
WNSB FM 91.1	WTKR TV 3
WOWI FM 102.9	WAVY TV 10
WJCD FM 105.3	WVEC TV 13
WHRV FM 89.5	WVBT TV 43

For more information on this policy, please call the office of Communications and Marketing at (757) 823- 8373, the office of Finance and Business at (757) 823- 8011, the office of Risk Management at (757) 823- 9142, the switchboard at (757) 823-8600 or the SpartanLine at (757) 823-2600.

POSTAL SERVICES

The Postal Service provides University faculty, staff, and students with quality services when processing official campus and off-campus mail, and provides postage meter service for the University community at the prevailing governmental rates for all classes of mail. Proper mail handling instructions and assistance to University faculty, staff and students are also provided.

UNIVERSITY POLICE DEPARTMENT

Norfolk State University Police Department has primary responsibility for security on campus. The Norfolk State University Police Department's mission is "to promote and maintain personal safety and physical and environmental security." The department's efforts include preventive measures through education and enforcement and to promote awareness of individual responsibility in safety and crime prevention. Norfolk State University Police Officers are sworn officers empowered and mandated to enforce federal, state, and local laws.

Norfolk State University Police Department's security policies and procedures comply with law enforcement regulations as established by the Commonwealth of Virginia and the Department of Criminal Justice Services.

DIVISION OF RESEARCH AND ECONOMIC DEVELOPMENT

**Office of the Provost and Vice President for
Academic Affairs**
(757) 823-8408

The mission of the Division of Research and Economic Development is to be a responsive and responsible customer-centric organization that enables and empowers its client (the Norfolk State University community and its stakeholders) to effectively accomplish its business unit goals.

OVERVIEW

The Division of Research and Economic Development is primarily responsible for acquiring external funding support for sponsored program activities and for encouraging and sustaining faculty and staff interests in these endeavors.

The Research and Innovation to Support Empowerment (RISE) project is intricately linked to the Division of Research and Economic Development in that RISE Campus activity is underpinned by technology and research. Also, the Division provides a critical interface between Norfolk State University (NSU) and the Enterprise and Empowerment Foundation (E2F) that oversees the RISE project.

The Division of Research and Economic Development includes the Office of Sponsored Programs (OSP).

OFFICE OF SPONSORED PROGRAMS (OSP)

This unit is responsible for administrative oversight for Norfolk State University grant, contract, and other sponsored program coordination and activities. Sponsored Programs is the primary interface for all departments and units within the University for local, state, federal, and quasi-governmental agencies, for corporations, foundations and other entities that provide support for research projects and other sponsored program categories. This excludes programs for charitable gifts, endowments, and all other forms of private giving, all of which are managed by the Division of University Advancement.

The mission of the Office of Sponsored Programs is to shepherd programs and funds into and through the University and to assist in developing and maintaining the intellectual base required to competitively seek external funding. This office seeks, pursues, solicits,

and manages funding activities for all research and other sponsored programs, University-wide.

PLANNED STUDENT SECURITY MESSAGE

Personal information posted on public newsgroups, public chat groups, community websites and even private or commercial on-line sites may be accessible by anyone on the Internet. Such personal information may be indexed and cached by search engines such as Google or Yahoo and may remain available on search engines even after the original website has removed the information. Please keep this in mind when posting personal information on public websites.

DIVISION OF STUDENT AFFAIRS

Dr. Leonard Brown
Vice President for Student Affairs
(757) 823-8141

The Division of Student Affairs is the central administrative unit responsible for the coordination and direction of student programs, services, and activities outside the classroom. The departments within the Division are dedicated to recognizing and providing for the needs of each student while stimulating student development outside the classroom. Other goals are aimed at preserving the rights of each individual student; fostering respect and communication among different cultures; maintaining a continued process of self-assessment; and adapting objectives to meet the needs of the student body while supporting the educational mission of the University.

OFFICE OF THE DEAN OF STUDENTS

Student Services Center, Room 318
(757) 823-2152

The Office of the Dean of Students assists all students, graduate and undergraduate, from their initial orientation to the College through successful completion of their academic and career goals. The Dean of Students staff advocates for student needs, addresses student complaints, acts as a liaison between students and academic departments, and provides support and challenges designed to enhance personal growth, as well as a sense of personal authority and responsibility in each student.

Student Advocacy and Family Relations

Student Advocacy and Family Relations is available and committed to address comments, questions, and concerns related to the NSU experience. Individuals are counseled regarding University policies and procedures. Concerns and complaints are investigated by working with campus officials and a response is given via email. An online form is available at <https://www.nsu.edu/student-affairs/dean-of-students/student-complaints>. Ensuring the highest level of satisfaction is paramount.

New Student Orientation

The Dean of Students Office assists all students, graduate and undergraduate, from their initial orientation to the College through successful completion of their academic and career goals.

New Student Orientation introduces new students to the NSU campus. Orientation is a process designed to assist new first-year and transfer students in making a successful transition to college life at NSU. The one day session affords new students the opportunity to learn about college courses at NSU, student life, available services, and unique opportunities to broaden their experience. New students also meet with an academic advisor and register for NSU courses, become familiar with campus technology, and attend information sessions. First-time freshmen take a math placement test. Sessions are also available for parents.

The website, <https://webapps.nsu.edu/admissions/rsvp/acknowledgement.php> allows students to RSVP for a particular orientation date online, and contains additional information.

Student Conduct

Student Conduct through the Dean of Students Office supports the mission of the University by promoting an environment conducive to transforming lives and empowering individuals through the fair and impartial administration of the Code of Student Conduct. We recognize that every community includes rules, standards, and expectations. The office helps educate students on their responsibilities as a member of the Norfolk State University community and promotes a safe and inclusive atmosphere. Additional information can be found at: <https://www.nsu.edu/student-affairs/student-judicial/>.

The Dean of Students Office is located in the Student Services Center, Suite 318. The telephone number is 757-823-2152.

COMPLAINTS AND GRIEVANCES TO EXTERNAL ENTITIES

For students (and other persons) who wish to address unresolved complaints, the University provides contact information for the following entities:

- a. The Southern Association of Colleges and Schools Commission on Colleges SACSCOC, 1866 Southern Lane, Decatur, Georgia 30033-4097 or call (404)679-4500 for unresolved complaints concerning University compliance with accrediting standards;
- b. The State Council of Higher Education for Virginia (SCHEV), 101 N. 14th Street, 10th Floor James Monroe Building, Richmond, Virginia 23219 for unresolved complaints concerning a condition or incident involving the University;
- c. The Office of the State Inspector General, 101 N. 14th Street, 7th Floor, Richmond, Virginia 23219, (804) 625-3255 or (800) 723-1615, for complaints alleging fraud, waste, abuse, or corruption; and
- d. The Office of Civil Rights of the U.S. Department of Education, 400 Maryland Avenue, SW, Washington, D.C. 20202, (1-800-872-5327), for complaints concerning federal laws prohibiting discrimination.

CAREER SERVICES

Student Services Center, Room 318 (757) 823-8462

Career Services is responsible for the overall planning, development, and implementation of the University's career services program for students and alumni. The office is located in Suite 307, Student Services Center.

Functions include:

1. Identifying and developing full-time, internship and cooperative opportunities;
2. Maintaining Handshake, a dynamic database of employment opportunities that allows students/alumni to upload resumes, apply for jobs and internships;
3. Providing career coaching and advising;
4. Planning and conducting professional seminars which includes Resume Writing, Interviewing Skills, Internship Preparation, Job Search Strategies and Dress for Success, and Professional Social Media training;
5. Planning and coordinating the On-campus Interviewing Program;
6. Planning and conducting career fairs (fall/spring) and graduate professional school day (fall semester).

Student must register with Career Services to receive all available services. Seniors are strongly encouraged to register with Career Services as they prepare to transition into the professional workforce upon graduation.

COUNSELING CENTER

(757) 823-8173

The Counseling Center provides a range of counseling services for Norfolk State University students at no charge. Services include individual, group, and crisis counseling, as well as educational outreach programming.

Counseling Services are confidential. The Counseling Center does not release information about a student without the student's written permission, except in cases of imminent danger to self or others, student is a minor (under 18), court order, or otherwise required by law. Counseling records are not part of academic records.

Counselors are available to consult with students, parents, and staff about issues that affect student life. Adjustment difficulties, substance abuse, depression, troubled relationships, and the inability to manage stress are a few reasons students seek counseling services. Crisis counseling is available to students 24 hours per day, seven days per week.

The Counseling Center staff are professional counselors trained, licensed and experienced in addressing issues common among university students. Appointments can be made by phone or in person. For additional information, please visit the Counseling Center in Room 312, Student Services Center, or call (757) 823-8173.

OFFICE OF ACCESSIBILITY SERVICES INTERNATIONAL STUDENT SERVICES (OASIS)

**James Bowser Bldg., Suite 121
(757) 823-8325**

The mission of Accessibility Services/International Student Services is to promote the academic success of students with disabilities (SWD), and International Students through high-quality educational assistance; faculty and staff seminars; workshops and training, and assistive technology training for students, faculty, staff, and administrators.

Accessibility Services

Accessibility Services is committed to complying with both the Americans with Disabilities Act (ADA) of 1990 and Section 5044 of the Rehabilitation Act of 1973.

Accessibility Services assists currently enrolled students

with documented disabilities including physical disabilities, traumatic head injuries, learning disabilities and other health concerns. Services include counseling, rehabilitation, note-sharing, and priority seating.

All contacts with OASIS are held in strict confidence, and information is released only with the student's permission.

Assistive Technology Laboratory (AT Lab)

The AT Lab exists to support the enhancement of student outcomes through the delivery of information, training, and support through the use of assistive technologies. Students with documented disabilities who are enrolled in the OASIS program are given access to the AT Lab where they are able to utilize specialized hardware, software, and other technologies that level the playing field in their endeavor to excel.

A complete list of services and accommodations are provided through the OASIS program and within the AT Lab is available from Disability Services and the Norfolk State University Student Handbook.

INTERNATIONAL STUDENT SERVICES

**James Bowser Bldg., Suite 121
(757) 823-8325**

International Student Services assists international students with matters related to immigration promoting international education and intercultural understanding. The office circulates immigration information and acts as a referral source for students, staff, faculty, and the community. Services include issuing visa documents/advising students; processing immigration petitions; serving as a liaison between the international student, the university, government agencies; and providing support services and education to enhance student success.

More information is available in the International Student Services Office and in the Norfolk State University Student Handbook. The office is located in the James Bowser Bldg., Suite 121.

HOUSING AND RESIDENCE LIFE

**Residential Complex, Suite 100
(757) 823-8407**

Living in one of our residential communities provides a great opportunity for students to take advantage of campus resources such as tutoring, library, and dining; interact with people from different backgrounds, be actively involved with campus life, create lifelong friendships, and develop to your fullest potential. Students who reside in our residential communities are required to abide by all University policies and respecting the rights of other residents.

Staff

Each residential community is staffed with full-time and part-time employees such as a residence hall director, graduate assistant (GA), front desk staff, and a resident assistant (RA) who is assigned to each floor. All staff are responsible for administering and enforcing University policies and regulations, while acting as a listener, mediator, and resource person.

Living on Campus

All students who live within our residential communities are members of the Residence Hall Association (RHA). RHA is committed to enhancing the residential experience on campus. Each community has representatives who work with the Office of Housing & Residence Life to identify areas of concern, enhance services provided to residential students, and plan and implement fun, creative programs and activities.

Payment of Fees

All students desiring on-campus housing must submit an online housing application and include the non-refundable housing deposit of \$300.00 by the deadline date (May 1st for fall entry, November 1st for spring entry).

Applications will be considered upon submission of a complete housing application and the \$300 deposit. Students may submit a request for a preferred residential community but Housing and Residence Life does not guarantee placement. Spaces are assigned on a first-come, first-serve basis.

Upon receipt of a bill from NSU, the entire room and board balance must be paid in full or payment arrangements made with the Office of Student Accounts in order for students to receive a key to their room. To inquire about individual accounts, students should contact the Office of Student Financial Services at (757) 823-8381.

Roommate Request(s)

Requests for roommates will be honored, to the extent possible, provided the request is mutual and included on the housing application of each applicant, deadlines for fees are met, and each person making the request meets all eligibility criteria for living in the desired residential community.

Occupancy of Rooms

Students are required to occupy rooms on or before the first day of classes or they may forfeit the room reservation.

Check-In

Upon check-in, students must complete a Blue Card Emergency Contact Form, receive their key, and complete a Room Condition Report. Students must have satisfied all financial obligations to the University and submitted a signed housing contract.

Housing during Breaks

All residential communities are typically closed during the Fall break, Thanksgiving, spring and summer breaks (except Spartan Suites). Students are not required to move their belongings out of their room during Breaks if they plan to return after the break ends. Students will receive updated information with specific dates and times to vacate the respective community.

For the Fall 2020 semester, there will be no Fall Break. Students will depart the residential communities at the conclusion of the Fall semester, which coincides with the Thanksgiving holiday. Students who plan to return for the Spring semester are not required to remove their belongings, however, students are strongly encouraged to secure all valuables or take them.

Withdrawal Procedures

Those who withdraw from their community must contact their residence hall director. Residents are responsible for removing all personal possessions and for cleaning their rooms, which must be verified by the residence hall director. The student is responsible for completing all paperwork to finish the withdrawal process.

There will be a \$100 charge for all rooms/suites not cleaned and a \$75 key charge for all keys not returned. Both offenses are subject to possible sanctioning that could prohibit future residency. In addition, students withdrawing from the residence halls will incur a \$50 charge for improper check-out if they fail to complete any part of the withdrawal process. Students should contact their respective residence hall director if they have questions.

Check-Out Procedures

Prior to student check-in and upon checkout, each residence hall will have staff assigned to check the condition of the room/suite. Damages and other discrepancies will be noted on the back of the resident's Blue Card. Normal wear is not penalized. Should the resident in violation not be known, all residents assigned to the room will be charged. Each resident assigned to a room/suite is responsible for cleaning his or her side of the room. Rooms and/or suites must be clean and free of all trash. Students housed in suites must ensure that the bathrooms are clean. Charges will be assessed for broken, damaged, misplaced, or out of area

Check-Out Procedures

furniture. Failure to follow correct check-out procedures will result in a fine and possible sanctioning that prohibit future residency in the residence halls.

Off-Campus Housing

The University has an off-campus housing referral listing to aid students in finding privately owned accommodations. Referrals are available in the Office of Housing and Residence Life. Information is available about rooms, houses, and apartments that are available to students. Contracts or agreements are private matters between the student and the landlord and not Norfolk State University. Students are urged to make living arrangements well in advance of the beginning of the semester.

Violation of Residence Hall Rules and Regulations

Living with a diverse group of students can be challenging and rewarding at times. The Office of Housing & Residence Life seeks to provide an inclusive and welcoming environment where values such as respect, civility, and accountability are upheld at all times. Students within the residential communities are required to abide by the 2020-2021 Residential Handbook (Guide to Community Living Handbook) and the terms of their Housing Contract. Additionally, residents are required to abide by the Norfolk State University Code of Student Conduct. Alleged violation of the Handbook or Code of Conduct will result in disciplinary action.

SPARTAN HEALTH CENTER

Spartan Station (757) 278 -3360

Student health services are provided by Fort Norfolk Plaza Urgent Care. Basic health services provided Living with a diverse group of students can be challenging and rewarding at times. The Office of Housing & Residence Life seeks to provide an inclusive and welcoming environment where values such as respect, civility, and accountability are upheld at all times. Students within the residential communities are required to abide by the Guide to Community Living Handbook and the terms of their Housing Contract. Additionally, residents are required to abide by the supplies, general and emergency medical services, health education counseling, maintenance of immunization/ health history records, provision of forms and materials on preventive health, mental health, and other health-related areas, and injections of allergy serum (at students' expense). Should a student require consultation with a specialist, the health care provider at the Center will refer the student to a local practitioner. The Center is staffed with highly skilled health care professionals including physicians, nurse practitioners, and nurses.

The costs for the health care services listed above are paid by the University for students who are enrolled full-time. Costs incurred for care that exceeds the services listed above must be paid by the student. Students are encouraged to purchase health insurance to cover the cost of specialty referrals, prescriptions or hospitalization. Students need to bring their NSU ID and should any insurance documentation they have in the event outside labs, imaging or referrals are needed.

It is recommended that any necessary dental and/or eye examinations be done prior to coming to the University, as the Health Center cannot provide these services.

The Spartan Health Center does not operate a pharmacy. Prescriptions may be filled at local pharmacies.

Emergency Care

When a serious or life-threatening illness or injury occurs on campus, the NSU Campus Police Department should be contacted immediately by calling (757) 823-9000. Norfolk State University's campus has easy-to-see, blue-light emergency telephones located across campus. Blue-light phones provide a direct connection to the University Police Department. Most blue-light phones are located on each building on campus, including residence halls, and along major foot traffic areas. Phones mounted on residence halls have an emergency button that, when pushed, connects directly with the University Police Department.

If emergency medical transportation is needed, the University Police Department will make the necessary arrangements to ensure that the individual is taken to the nearest urgent health care facility. The expense of this care will be borne by the student.

Location and Office Hours

The Spartan Health Center is housed in the Spartan Station at the east end of the campus. It is open Monday through Friday from 8:00 a.m. to 5:00 p.m. Walk-in hours will be from 8:00a.m. to 10:00 a.m. for the acutely ill. Acutely ill is defined as new onset of sickness such as fever, diarrhea, urinary problems, and upper respiratory problems. Students should call the Spartan Health Center at (757) 278-3360 or visit the Spartan Health Center's website to make an appointment to ensure prompt treatment. However, students with new onset illnesses will be seen on a walk-in basis between scheduled appointments, whenever possible.

Appointments

Students should call for an appointment to ensure prompt treatment. However, students with new onset illnesses will be seen on a walk-in basis between scheduled appointments, whenever possible.

SPARTAN HEALTH CENTER

Confidentiality

The relationship between a clinician and the patient is strictly confidential. To ensure this, the Spartan Health Center will not release files or information to anyone, including university officials, relatives, or prospective employers, without the expressed written consent of the patient. Only upon issuance of a legal subpoena will records be provided without the patient's authorization.

Medical Excuses

Written statements verifying a student's visit to the Health Center will be issued, if necessary, at the discretion of the Health Care Provider. An official university excuse may be obtained from the Office of the Dean of Students.

Immunizations

Health History Record of Immunizations Virginia State Law (Sec.23-7.7) and Norfolk State University require all full-time entering and returning students to provide documentation of immunizations and a completed health record form. The information on this health record is needed to both protect the health of the university community and to assist the Spartan Health Center staff in providing comprehensive medical care for students.

Student Accident Insurance Plan

All full time undergraduate students (U.S. citizens and permanent residents) taking 12 or more credit hours and all international students (full and part time, graduate and undergraduate) will automatically be enrolled in the Accident Only Expense Benefit and the Outpatient Prescription Drug Benefit, insured by BCS Insurance Company. This plan is mandatory and no waivers will be allowed. The annual premium of \$100 will be assessed to each qualifying student in two equal installments of \$50 each semester.

Additional coverage for sickness benefit is also available. While enrollment in the Sickness Expense portion of the plan is not mandatory, it is highly recommended for students who do not have adequate insurance for sicknesses. Part-time and graduate students are also eligible to enroll in the Optional Sickness plan. Specific information regarding the student insurance plan can be obtained via the NSU website.

Health Insurance

Information about the NSU student insurance plan maybe obtained at the Spartan Health Center or the Office of Student Services/Judicial Affairs. Health History/Record of Immunizations Virginia State Law (Sec. 23-7.7) and Norfolk State University require all full-time entering and returning students to provide documentation of immunizations and a completed health record form. The information on this health record is needed to both protect the health of the university community and to assist the Spartan Health Center staff in providing comprehensive medical care for students.

STUDENT CENTER

(757) 823-8200

The Norfolk State University Student Center builds a sense of community by facilitating learning, leadership and personal development to enhance the student's experience.

The Student Center is home to the Student Government Association, the Office of the Student Activities and Leadership, meeting rooms, Spartan commuter Lounge, computer labs, Spartan Echo and Spartan Reflection Yearbook Office, Spartan Game Zone, Spartan Training Zone, Spartan Express Café and University Bookstore. The Spartan Lanes are managed by the Student Center along with Intramural Sports teams and IM league teams.

STUDENT ACTIVITIES AND LEADERSHIP

(757) 823-8200

The Office of Student Activities is responsible for the coordination and implementation of a creative, responsive, and diverse co-curricular program. Norfolk State University strives to cultivate individuals who have not only mastered academic coursework, but have also developed active interests and skills in interpersonal relations. To assist with this mission, the University promotes a wide range of student organizations and activities. Students are encouraged to participate in the following academic, social, athletic, literary, and religious activities:

STUDENT ACTIVITIES AND LEADERSHIP

STUDENT ORGANIZATIONS

Accounting Association
 200 Plus Menu
 2xclusive Hip Hop Dance Team
 Active Minds at Norfolk State University
 African Student Association
 Airway Science Club
 Alpha Epsilon Rho
 Alpha Delta Mu National Social Work Honor Society
 Alpha Eta Rho Fraternity, Inc.
 Alpha Kappa Alpha Sorority, Inc.
 Alpha Kappa Delta
 Alpha Kappa Mu Honor Society
 Alpha Lambda Delta Honors Society for
 First Year Students
 Alpha Mu Gamma National Collegiate
 Foreign Language Honor Society
 Alpha Nu Omega Fraternity Inc.
 Alpha Nu Omega Sorority, Inc.
 Alpha Phi Alpha Fraternity, Inc.
 Alpha Phi Omega Fraternity, Inc.
 Alpha Phi Sigma National Criminal Justice
 Honor Society Alpha Sigma Lambda
 American Association of University Women
 American Chemical Society
 American Production and Inventory Control Society
 Arabic Language & Culture Club
 Association for Computing Machinery
 Association of Black Communicators
 Association of Concerned Sociologists
 Association of General Contractors of America
 Association of Information
 Technology Professionals

Athletes in Action
 Banking and Finance Club
 American Physics Society
 Baptist Student Union
 Consumer Services and Family Studies Club
 Cooperative Education Club
 Council for Exceptional Children
 Council of Independent Organizations (C.I.O.)
 Dance Marathon
 Beta Gamma Sigma Honor Society
 Beta Kappa Chi National Scientific
 Beta Psi Biology Society
 Boxing Club
 Business Honor Council
 Caribbean Student Association
 Cheerleaders
 Chemistry Club
 Chess Club
 Chi Eta Phi Sorority, Inc.
 Christian Student Fellowship Circle K
 International
 Collegiate Secretaries International
 Commuter Student Association
 Concert Choir
 Consumer Services and Family Studies Club
 Cooperative Education Club
 Council for Exceptional Children
 Council of Independent Organizations (C.I.O.)
 Dance Marathon
 Data Processing Management Club
 Delta Sigma Theta Sorority, Inc.
 Determined Educated Sisters Taking Initiative N
 Encouraging Dreams (D.E.S.T.I.N.E.D.)
 Diplomats' Circle, The
 DNIMAS Student Association
 Early Childhood Education
 Club Eboni Rage Fashion Society
 Economics Club
 Elements of Style
 English Club

Administrative Offices

English and Foreign Languages Major
Club Elements of Style
Entertainment Alliance
Entrepreneurship Club
Epsilon Tau Sigma
Family and Consumer Sciences
Filipino Americans @ Norfolk State
Finance and Banking Association
Food Science and Nutrition Club
French Club
Freshman Class
Girls in Science, Engineering and Technology (GISET) Genetics Society of Norfolk State University
Golden Key National Honor Society
Gospel choir
Grace Church Ministries
Graduate Student Association
Group for Microgravity & Environmental Biology-Strategies for Ecology, Education, Diversity and
Sustainability (GMEB-SEEDS)
Guild of Fine Arts
Habitat for Humanity
HBCU's Peace + Love
Health/Physical Education & Exercise Science Majors Club
Health Services Management Association
History Club
Honda Campus All-Star Challenge
Honor Society of Nursing
Honors College Student Association
Industrial Education Technology Club
Institute of Electrical and Electronic Engineers
Interdisciplinary Studies Student Association
International Food Service Executive Association
Hotel, Restaurant and Institutional Management Club
International Student Organization International
Technology Education Collegiate Association
Intervarsity Christian Fellowship
Iota Phi Theta Fraternity, Inc.
James W. Howell Book Club
Junior Class
Kappa Alpha Psi Fraternity, Inc. Kappa Delta Epsilon
Kappa Kappa Psi Fraternity, Inc. Kappa Omicron Nu
Kappa Omicron Tau Society
Ladies and Gentlemen of Technology
Leading the Education of Gay and Straight Individuals (LEGASI)
League of Extraordinary Men , The League of Extraordinary Women,

The League of Gamers Inspiring Culture (L.O.G.I.C.)
Lyman B. Brooks Debating Society
Mass Communications Student Association Master
Social Work Graduate Student Organization Material
Advantage (ACerS-ASM-TMS) Materials Research
Society Mathematics Club Minority Association of
Pre-Health Students Music Educators National
Conference
National Association for the Advancement of Colored
People (NAACP)
National Association of Black Accountants (NABA)
National Association of Blacks in Criminal Justice
National Broadcasting Society
National Council of Negro Women
National Institutes of Science
National Pan-Hellenic Council
National Society of Black Student Engineers
National Society of Minorities in Hospitality
National Society of Pershing Angels Sorority, Inc.
National Society of Pershing Rifles Fraternity, Inc.
National Student Nurses Association Norfolk
Review (formally The Rhetorician)
NSU Dance Theatre
NSU Theatre Company
Nursing Honor Society
Nutrition Club (formerly Food Science and Nutrition
Club) Omega Psi Phi Fraternity, Inc. Online Student
Organization
Optical Society of America (NSU Student Chapter)
Order of Omega
Organization of International Black Unity Phi
Alpha Delta Law Fraternity International Phi
Alpha Theta
Phi Beta Delta Honor Society for
International Scholars
Phi Beta Lambda
Phi Alpha Theta
Phi Beta Delta Honor Society for International Scholars
Phi Beta Lambda
Phi Beta Sigma Fraternity, Inc.
Phi Delta Psi Fraternity, Inc.
Phi Mu Alpha Sinfonia of America, Inc.
Physical Education and Exercise Science Club
Physics and Engineering Club
Pi Gamma Psi Fraternity, Inc.
Pi Sigma Alpha Honor Society
Pi Sigma Epsilon Fraternity, Inc. (formerly
American Marketing Club)
Political Science Association
Pre-Alumni Club
Pre-Medical Society
Psychology Club
Public Relations Student Society of America
Resident Hall Association
Psi Chi (The International Honor Society in Psychology)
SD

SeniorClass
Sigma Alpha Iota International Music Fraternity
Sigma Tau Delta International English Honor Society
Sister Circle
Society for the Advancement of Management
Society of Manufacturing Engineers
Society of Physics Students
Society of Women Engineers
Sociology Club
Sophomore Class
Spanish Club
Spartan Alpha Tau
Spartan Cavalry
Spartan Epidemik
SpartanGenerals
Spartan Legion Marching Band
StudentActivities Board
Student Affiliate of the American Chemical Society
Student Ambassadors
Student Association of Music
StudentAthlete Advisory Committee
StudentGovernment Association
StudentNational Technical Association
StudentNurse Association
Student Virginia Education Association
Students in Free Enterprise
Students Standing 4 Sickle-Cell
Students Taking Action Now: Darfur (S.T.A.N.D.))
Swim Club
Taekwondo Club
Tau Beta Sigma National Honor Band Sorority, Inc.
Technology Education Collegiate Association
Teacher PREP Student Support Services Program
Thurgood Marshall Pre-Law Club
Upsilon Phi Delta Honor Society
Urban Control Entertainment Crew
UniversityDance Theater
University Players
Veterans Club
Virginia 21
Virginia Family and Consumer Sciences
Vocational Industrial Clubs of America
Wesley Westminster Club
Whitney Young Social Work Club
World Changers
Young Democrats
Young Life Multicultural
Young Republicans
Zeta Phi Beta Sorority, Inc.

STUDENT PUBLICATIONS

1. Spartan Echo Newspaper
2. Spartan Reflections Yearbook
3. The Intramural Program

THE INTRAMURAL PROGRAM

The Intramural Program at Norfolk State University provides opportunities for students, both male and female, to participate in individual and team sports activities on a regular basis. More specifically, the program promotes:

1. Better health through exercise,
2. Social interaction and the development of friendships,
3. Sportsmanship of the highest order, and
4. Important values developed through team spirit and cooperation.

The list of competitive intramural activities includes tennis, coeducational volleyball, men's and women's basketball, flag football, softball, billiards, recreational swimming, bowling, roller skating, and ice skating. Students who do not ordinarily take part in sports are encouraged to participate in and enjoy some type of physical activity. The skills acquired in the intramural program will encourage future sports participation and healthy habits that will last a lifetime.

Student Government Association

Students are invited to help guide the direction of the University through membership in the Student Government Association (SGA). The purpose of the SGA is to develop a cooperative spirit among students; to promote self-development through personal expression, communication, and leadership; to encourage student initiative; and to act as an intermediary between the administration and students in matters of general welfare.

Decisions rendered by the Student Government Association are subject to the approval of the Executive Council.

Campus Program Disclaimer

University organizations frequently invite speakers and performers to campus. The views and opinions of these guests do not necessarily represent those of the University or the sponsoring organization.

STUDENT SUPPORT SERVICES

(757) 823-8677

MISSION

The Student Support Services Program is federally funded by the United States Department of Education. The program was established on the campus of Norfolk State University in July, 1971.

The Norfolk State University Student Support Services Program is designed to provide an array of supportive services for 400 eligible participants. Program services are available to all SSS participants matriculating at NSU.

The overall purpose of the Student Support Services Program is to promote student retention and graduation from Norfolk State University.

SERVICES

1. Counseling (Academic and Financial Aid)
2. Peer Tutoring
3. Peer Mentoring
4. Cultural and Educational Enrichment Activities
5. Special Assistance for students with disabilities
6. Grant Aid Awards
7. Skills Development
8. Graduate and Professional School referrals
9. Financial Literacy
10. Computer Labs
11. Graduate and Professional School visitations

WHO IS ELIGIBLE?

1. Freshmen and sophomores enrolled at Norfolk State University
2. Student must have academic need as defined by the Student Support Services criteria
3. Students who meet the income criteria
4. First generation students
5. Students with disabilities

All students must meet two or more of the above criteria.

VETERANS AFFAIRS

(757) 823-2586

The Office of Military Services and Veterans Affairs (MSVA) provides support and assistance to active duty military, reservists, Veterans and family seeking to complete their education from admission through graduation. MSVA also provides counseling to students using tuition assistance and Department of Veterans Affairs (VA) education benefits. The VA Certifying Official for Norfolk State University assists students with Education Plans and serves as a liaison between the University and the VA, providing information on university procedures and resolving problems regarding eligibility and payment of VA benefits. MSVA also provides information about Virginia State Veterans benefits, including the Virginia Military Survivors and Dependents Education Program.

Each semester, students using VA education benefits must report their enrollment to MSVA by completing the Veterans Enrollment Reporting Form. New students who are planning to use VA benefits must report to MSVA before enrolling. Students using VA benefits must immediately inform MSVA if they add, drop, audit, stop attending, have a class cancelled, withdraw or are withdrawn from class(es) or the University, are unable to attend classes, or make any changes to their enrollment.

Educational assistance is available for U.S. military Veterans and members of the National Guard and Selected Reserve. Dependents of Veterans in certain categories may be eligible for benefits. In all instances, the VA determines eligibility. The VA sends monthly payments directly to the student following verification of enrollment each semester. Receipt of VA benefits may have an impact on levels of federal and state financial aid for which a student may be eligible; therefore inquiries regarding financial aid eligibility should be directed to the Norfolk State University Office of Financial Aid. Norfolk State University is authorized to receive tuition payments for Veterans attending school under the Veterans Readiness and Employment Program. For information on the program and eligibility requirements, Veterans should contact VA at 1-800-827-1000. The University also accepts tuition waivers under the Virginia Military Survivors and Dependents Education Program.

VA Delayed Payment Compliance Addendum

Norfolk State University adheres to the requirements of 38 USC 3679(e). Norfolk State University will not impose any penalties on students entitled to educational assistance under Chapter 31, Vocational Rehabilitation and Employment, or Chapter 33, Post-9/11 G1 Bill benefits while awaiting payments from the Department of Veterans Affairs (VA).

Norfolk State University will allow covered individuals to attend or participate in their course of education during the period beginning on the date on which the individual provides to the educational institution a certificate of eligibility for entitlement to educational assistance under Chapter 31 or 33 and ending on the earlier of the following dates:

1. The date on which payment from VA is made to the institution.
2. 90 days after the date the institution certified tuition and fees following the receipt of the certificate of eligibility.

Norfolk State University will not impose any penalty, including the assessment of late fees, the denial of access to classes, libraries, or other institutional facilities, or the requirement that a covered individual borrow additional funds, on any covered individual because of the individual's inability to meet his or her financial obligations to the institution due to the delayed disbursement funding from VA under Chapter 31 or 33.

Grievance Policy

The Virginia State Approving Agency (SAA), is the approving authority of education and training programs for Virginia. This office investigates complaints of GI Bill beneficiaries. While most complaints should initially follow the school grievance policy, if the situation cannot be resolved at the school, the beneficiary should contact our office via email saa@dvs.virginia.gov.

U.S. Code, 38 U.S.C. 3679(c). Veterans Access, Choice, and Accountability Act of 2014

Official School Catalog Addendum

I certify the current policy is true and correct:

The following individuals shall be charged a rate of tuition not to exceed the in-state rate for tuition and fees purposes:

- A Veteran using educational assistance under either chapter 30 (Montgomery G.I. Bill - Active Duty Program) or chapter 33 (Post-9/11 G.I. Bill), of title 38 United States Code, who lives in the Commonwealth of Virginia while attending a school located in the Commonwealth of Virginia (regardless of his/her formal State of residence) and enrolls in the school within three years of discharge or release from a period of active duty service of 90 days or more.
- Anyone using transferred Post-9/11 GI Bill benefits (38 U.S.C. § 3319) who lives in the Commonwealth of Virginia while attending a school located in the Commonwealth of Virginia (regardless of his/her final State of residence) and enrolls in the school within three years of the transferor's discharge or release from a period of active duty service of 90 days or more.
- Sergeant John David Fry Scholarship (38 U.S.C. § 3311(b)(9)) who lives in the Commonwealth of Virginia while attending a school located in the Commonwealth of Virginia (regardless of his/her final State of residence) and enrolls in the school within three years of the Service member's death in the line of duty following a period of active duty service of 90 days or more.

- Anyone described above while he or she remains continuously enrolled (other than during regularly scheduled breaks between courses, semesters, or terms) at the same school. The person so described must have enrolled in the school prior to the expiration of the three year period following discharge, release, or death described above and must be using educational benefits under either chapter 30 or chapter 33, of title 38, United States Code.

Date: May 8, 2015

Authorized Official to Make Revisions to the Catalog:

Dr. DoVeanna Fulton

Title: Provost and Vice President for Academic Affairs

DIVISION OF UNIVERSITY ADVANCEMENT

Mr. Clifford Porter
Vice President for University Advancement
(757) 823-8323

The purpose of the Division of University Advancement is to advance the University's mission by:

- involving constituents and stakeholders in the life of the University;
- informing constituents of University achievements, priorities, opportunities and challenges;
- researching, identifying, cultivating, and securing support and financial investments in the University;
- being good stewards of the institution's relationships and resources; and
- promoting and enhancing the University's stature and image.
- The above mission is accomplished through the planning and execution of various programs that promote voluntary support for the University and ongoing liaisons with governmental agencies, foundations, business and industry, alumni and others that provide funds and resources to the University. Specific initiatives to actualize the division's goals are coordinated through the functional areas of alumni relations, development, event planning, and the L. Douglas Wilder Performing Arts Center. The NSU Foundation, Inc. is a separate entity that also advances and supports the University's mission by soliciting, receiving, investing, and administering gift resources for the University. Many need-based scholarships are administered through the NSU Foundation.

ADMISSIONS

Dr. Juan Alexander
Associate Vice-President for Enrollment
Phone: (757) 823-8396
Toll Free: 1-800-274-1821 Email: admissions@nsu.edu

<http://www.nsu.edu/admissions/>

GENERAL ADMISSIONS INFORMATION

Through exemplary teaching, scholarship, and outreach Norfolk State University transforms lives and communities by empowering individuals to maximize their potential, creating life-long learners equipped to be engaged leaders and productive citizens.

Norfolk State University seeks to admit in-state and out-of-state applicants whose combination of academic preparation, aptitude, achievements, and motivation predict a reasonable probability of success in one or more of the University's academic programs.

NSU does not discriminate based on ethnicity, race, gender, age, disability or religious beliefs. The Office of Undergraduate Admissions evaluates applicants based upon their individual potential for success at NSU and their perceived potential contribution to enhancing university performance against its goals and objectives.

UNDERGRADUATE ADMISSIONS CRITERIA

1. Admissions criteria for Norfolk State University require an applicant to have graduated from an accredited high school with a minimum grade point average of 2.3 on a four-point grading scale. Applicants must have obtained a high school diploma or a General Education Diploma. A "program completer" status is not equivalent to a high school diploma.

All applicants under the age of 21 must submit Scholastic Achievement Test (SAT) scores or American College Testing (ACT) scores. A minimum combined score of 880 (critical reading and math) on the SAT or a composite score of 17 on the ACT is required.

All applicants must submit two letters of recommendation.

2. The applicant should have completed a minimum total of 22 units distributed as follows:

COURSE	HOURS
English	4
Mathematics*	3
Science	3

COURSE	HOURS
History and Social Sciences	3
Health and Physical Education	2
Electives	1
Fine Arts or Practical Arts	6
TOTAL HOURS REQUIRED	22

* Algebra I, Geometry, Algebra II recommended

3. Students with a high school equivalency diploma will be considered upon the successful completion of the General Education Development (GED) test with a minimum score of 530. GED graduates may be subject to the requirements outlined above. The University is interested in the quality of the applicant's academic preparation and indicators of overall promise as a student.

ADMISSIONS PRIORITY DEADLINE

The priority application date for fall undergraduate admission is May 15. October 1 is the priority date for spring.

Applying as a First-Time Freshman

When applying for admission as a freshman, the applicant must provide the following:

1. An application completed in full and a non-refundable application fee of \$45, payable by check or money order or an official fee waiver. Applicants applying online will be assessed an application fee of \$20 payable by credit card.
2. An official high school transcript forwarded by the applicant's high school. (It is the student's responsibility to have final grades sent to the Office of Admissions immediately following graduation.) SAT/ACT scores. (Applicants who have reached the age of 21 at the time of enrollment are exempt from this requirement.) Home-schooled applicants are required to submit a transcript of units completed and grades earned, SAT/ACT scores, two letters of recommendation, an application completed in full, and a \$45 non-refundable application fee.
3. An official report of test results issued by the General Education Development (GED) testing center, if applicable.
4. Two letters of recommendation.

APPLYING AS A TRANSFER STUDENT

When applying for admission as a transfer student, the applicant must provide the following:

1. An application completed in full and a non-refundable application fee of \$45, payable by certified check or money order or an official fee waiver. Applicants applying online will be assessed an application fee of \$20 payable by credit card.
2. Official transcripts from ALL colleges attended. Transfer students must be in good standing at the last school attended and must have a minimum cumulative grade point average of 2.0. Information about transfer credit is provided in the next section.
3. High school transcripts, if fewer than 12 semester hours are transferrable
4. SAT/ACT scores, if applicant is under the age of 21 and fewer than 12 semester hours are transferred.

GUARANTEED ADMISSION

Students who have completed an associate's degree and are transferring from a Virginia community college to Norfolk State University may be granted junior status. For a complete description of the agreement, please visit the NSU website.

TRANSFER CREDIT

Transfer credit is acceptable for coursework with a grade of "C" or better from regionally accredited institutions of higher learning. Courses taken on a pass/fail basis may be considered for transfer credit if the official college or university transcript or official attachments indicate that a passing grade is equivalent to a grade of "C" or better. No more than 30 pass/fail semester credit hours may be considered for transfer credit. Two copies of the Certificate of Advanced Standing (CAS) will be generated for all accepted transfer students. The CAS must be submitted to the academic advisor for review and approval during the transfer orientation session. Academic departments will make the final determination of credits accepted toward the chosen curriculum.

OTHER SOURCES OF TRANSFER CREDIT

Additional transfer credits may be obtained in the following ways:

1. Advanced Placement Examinations (AP)

Students who attain scores of 3, 4, or 5 on the Advanced Placement Examinations administered by the College Board are eligible to receive credit on the basis of these tests. Scores should be forwarded directly from the College Board to the University. Information concerning the College Board Advanced Placement Examinations may be obtained from the Educational Testing Service, Princeton, New Jersey, or from high school counselors and teachers. All AP scores must be sent to the Office of Admissions prior to enrollment.

2. College Level Examination Program (CLEP)

Students who attain satisfactory scores on the Subject Examinations College Level Examination Program (CLEP) under the auspices of the College Entrance Examination Board are eligible to receive course credit on the basis of such tests. However, the CLEP examination must be completed prior to or during enrollment at Norfolk State. Academic advisors should be consulted to determine whether credits can be applied to the curriculum. Students applying for CLEP credit must have scores sent directly to the Office of the Registrar, Norfolk State University, 700 Park Ave., Norfolk, VA 23504. (Military service veterans who were administered CLEP through the DANTES program must have CLEP scores reported directly to the University from DANTES.)

Selected CLEP Subject Examinations are offered at nationwide test centers on a monthly basis. CLEP registration information may be obtained from the NSU website.

3. American College Testing Proficiency Examination Program (ACT PEP)

Students seeking admission to the Baccalaureate Program in Nursing for Registered Nurses and who are not recent graduates of an articulating institution may receive 34 hours of lower level nursing credit through ACT PEP. These examinations are offered at test centers throughout the nation. For more information, contact the Department of Nursing at (757) 823-9013

4. Credit for Military Service

Honorably discharged veterans of the United States Armed Forces may be granted credit for military science and certain courses in health and physical education upon presentation of the Report of Transfer or Discharge (DD 214) to the Admissions Office. These forms should be submitted prior to the first day of enrollment.

5. International Baccalaureate Exams

Students who attain scores of 4, 5, 6, or 7 on International Baccalaureate Examinations (IB) are eligible to receive credit on the basis of these tests. All IB scores must be sent directly to the Office of Admissions prior to enrollment.

APPLYING AS AN INTERNATIONAL STUDENT

When applying for admission as an international student, the applicant must provide the following:

- An application completed in full and a non-refundable application fee of \$45, payable in U.S. funds, or an official fee waiver.
- Official or certified copies of all academic work and examination results in native language and in English.

6. Proof of English language proficiency for non-native English speakers.
7. SAT I or ACT scores for undergraduate applicants under the age of 21. Two letters of recommendation.
8. Financial documents, including notarized affidavit of support, student certification form, and bank statements.

Additional documents may be required.

Due to the length of time required to obtain U.S. visas, applications for admission must be received 4 months prior to the semester applicants wish to enroll. Contact the Office of Admissions for detailed application information and instructions.

NON-DEGREE ADMISSION

Persons who are seeking teacher certification, or who do not wish to pursue a degree program, may enroll in non-degree status at Norfolk State University. Students on academic or disciplinary suspension are ineligible to apply as a non-degree-seeking student. Applicants should be prepared to present official credentials upon request. Financial aid is not available for non-degree students except for those seeking teacher certification. Non-degree status does not guarantee future admission.

Non-degree students will not be considered as candidates for a degree or certificate until all admissions requirements are met and an application for enrollment is made and approved through the Office of Admissions. The University requires that a student apply for a degree program after completing 29 semester hours. Non-degree students are not required to obtain a Certificate of Advanced Standing. A \$45 non-refundable application fee is required. Eligible non-degree-seeking students are required to meet with the department head for each course in which he/she would like to register.

Non-degree international students must submit a copy of TOEFL scores or a transcript showing completion of three semester hours of college-level English with a grade of "C" or better.

SPECIAL PROGRAMS

Admission to the Nursing Program

Admission to the programs within the Department of Nursing is competitive and based on criteria that include completion of high school or college prerequisites, demonstrated ability in mathematics and the natural sciences, competitive grade point average in previous academic work, and other requirements as specified in literature that may be obtained directly from the Department of Nursing or <http://www.nsu.edu>

Partnership for Academic and Student Success (PASSport)

Norfolk State University and several Virginia Community Colleges have created The Partnership for Academic and Student Success (PASSport) to assist students who wish to attend NSU but need additional academic preparation prior to engaging in collegiate study. The purpose of the program is to provide access and support to promising students who do not initially qualify for enrollment at NSU. Please contact the Office of Admissions (757) 823-2607 for additional information regarding the program.

READMISSION

Any former undergraduate who has not attended Norfolk State University for two or more spring or fall terms must complete an undergraduate readmission application form, students may re-apply at www.nsu.edu/registrar. If the student has taken any college-level coursework since attending NSU, he or she must have an official transcript of this work sent directly to the Office of the Registrar. Readmission applications and necessary transcripts must be on file at least two weeks prior to the term for which the student is applying to guarantee review.

Students who re-enter the University after an absence of two regular terms must meet the requirements of the current catalog unless they receive written permission from the dean of the school in which they are enrolled to continue under an earlier catalog. This written permission must be on file in the Office of the Registrar prior to the submission of a graduation application. A student may not receive permission to graduate under a catalog which predates re-enrollment by more than three years.

RECLAMATION PROJECT

The Reclamation Project began in the fall of 1999 as an effort to reclaim former Norfolk State University students. Students who have been away from the University for more than five (5) years and who are over the age of 24 qualify for participation in this project. The overall management of the Reclamation Project is the responsibility of the Virginia Beach Higher Education Center/Office of Continuing Education. For additional information on the Reclamation Project, contact the reclamation advisor at (757) 368-4154.

VIRGINIA IN-STATE TUITION GUIDELINES

The following guidelines outline eligibility information for obtaining in-state tuition rates in the Commonwealth of Virginia. The information is not comprehensive and should only be used as a general reference.

DOMICILE

To be eligible for in-state tuition rates, students must be domiciled in Virginia for a minimum of one year preceding the first official day of classes. Domicile is defined as the student's "present, fixed home to where the student returns following temporary absences and to where he or she intends to stay indefinitely. In order to qualify for Virginia in-state tuition, therefore, the student must meet two criteria:

- * he or she must currently reside in Virginia, and
- * intends to reside in Virginia indefinitely.

As a minor, a student carries his or her parents' domiciliary status. Once the student reaches the age of 24, he or she is eligible to establish his or her own domicile. However, if a student is over 24 years of age and is financially dependent on his or her parents, normally the parents must be domiciled in Virginia before the student becomes eligible for in-state tuition benefits.

Factors Used to Determine Domicile

The University reviews several factors when determining domicile including:

1. Residence during the past year prior to the first official day of classes
 - State to which income taxes are filed or paid
 - Driver's license
 - Motor vehicle registration
 - Voter registration
 - Employment
 - Property ownership
 - Sources of financial support
 - Location of checking or passbook savings account
 - Other social or economic ties with Virginia and other states

The presence of any or all of these factors does not unquestionably determine Virginia domicile. These factors, used to support a case for in-state tuition benefits, must have been present for one year prior to the first official day of classes.

Residence or physical presence in Virginia attained primarily to attend a college or university does not entitle a student to in-state tuition rates. If a student is classified as an out-of-state student, that student will be required to provide clear and convincing evidence to refute the presumption that he or she is residing in the state primarily to attend an institution and does not intend to stay indefinitely. Applications for change of domicile are available through the Office of Admissions website.

All applications and supporting documents must be received in the Office of Admissions prior to the start of the semester for which a change of domicile is sought. Domicile review and appeal procedures may take up to six weeks. If a student's application is pending a decision, the student will be expected to pay out-of-state charges until written approval has been granted by the Domicile Committee.

Copies of pertinent Virginia statute and guidelines issued by the State Council of Higher Education for Virginia are on reserve in the University Library. For additional information, contact the Office of Admissions at (757) 823-8396 or 1-800-274-1821.

TUITION AND FEES

Tuition and fees are established annually by the University's governing board, the Board of Visitors. Considerable effort is made to keep tuition affordable. For fee information, students should obtain a current "Schedule of Tuition and Fees" or "Registration Information Booklet" booklet from the Registrar's or Admissions Office located in the Student Services Center or online at <http://www.nsu.edu> the Student Services Center.

Students who register during late registration will be assessed a late registration fee of \$75.

Books, uniforms, supplies, professional dues, and examination expenses are paid separately from University charges. Students should consult their academic department for an estimate of these costs.

The current listing of tuition and fees is located at: <http://www.nsu.edu/studentaccounts/tuition.html>.

Senior Citizens' Tuition and Fees

Persons 60 years of age or older who are residents of Virginia and whose taxable income is less than \$23,850 (<http://lis.virginia.gov/cgi-bin/legp604.exe?151+sum+HB2068>) may enroll in no more than three courses per semester for academic credit at a reduced charge.

According to the Code of Virginia (chapter cited as the "Senior Citizens Higher Education Act of 1974"), "Senior Citizen" shall mean any person who, before the beginning of any term, semester or quarter in which such person claims entitlement to the benefits of this chapter, (1) has reached sixty years of age and (2) has had his or her legal domicile in this state for one year.

Course" shall mean any course of study offered in any state institution of higher education, including the regular curriculum of any department, school, or subdivision of any such institution or any special course, given for any purpose, including, but not limited to, adult education.

Nothing in this section shall be construed to exclude any other rules and requirements now or hereafter made applicable for all other persons with respect to residency in this state by a state institution of higher learning.

Matriculation/Enrollment Fee

All first-time freshmen and transfer students must pay a one-time matriculation fee of \$35.

Enrollment Deposit Fee

All first-time and transfer students must pay a \$100 non-refundable enrollment deposit fee once accepted

at Norfolk State University. For additional information about the enrollment fee, contact the Office of Admissions at (757) 823-2607.

Housing Department

All students who plan to live on campus must pay a non-refundable housing deposit of \$300.00 by the deadline date, (May 31st for fall entry, November 1st for spring entry) to reserve on-campus housing. Only applications accompanied by deposits will be considered. Applications can be completed online at <http://www.nsu.edu/residentiallife>. Housing is not guaranteed after the deadline dates.

Other Charges

Students enrolled in certain music, physical education, nursing, on-line or other such courses may be assessed an additional fee to cover the cost of materials, individual instruction, clothing and equipment required for the course. The amount of the supplementary fee for a specific course is listed in the Registration Information Booklet (<http://www.nsu.edu/registrar/>).

BOOKS/SUPPLIES

Books and supplies are not included in the cost of tuition and fees. Students should be prepared for this expense on the first day of class. Textbooks and supplies may be purchased in the University Bookstore located in the Student Center.

Bookstore Authorization

Students receiving financial aid may be eligible to receive a bookstore authorization to purchase books and supplies.

If awarded financial aid exceeds the total tuition, fees, room, and board, funds may be placed on the Spartan Card for books and supplies. Students must be registered and have a current Spartan Card.

To obtain a book authorization, student should log on to <http://www.nsu.edu/mynsu/>.

REGISTRATION PAYMENT DUE DATES

All students are expected to pay prior balances and satisfy current tuition, fee, room and board at the time of registration unless payment arrangements are made and/or financial aid is awarded and other scholarships are sufficient to cover the costs.

In the event a student does not satisfy a semester's charges per agreed upon terms, the student will be prevented from registering for future semesters.

CLASS CANCELLATION

If satisfactory payment arrangements are not made by established due dates, a student's registration will be cancelled. Students may re-register during the registration period and may be subject to late registration fees.

Note: Students run the risk of not being able to re-register for the same class schedule because the class(es) may have filled and, as a result, may be closed.

PAYMENT OF TUITION AND FEES

Students should be prepared to satisfy current tuition, fees, room, and meal costs through direct payment, financial aid, and one of the approved payment plans.

Financial aid is the amount indicated on the Financial Aid award letter.

Current academic year Title IV financial aid funds will not be used to cover a prior academic year balance.

Non-University scholarships and work-study are not credited toward tuition and fees until funds are received; however, these awards may be used to establish a payment plan.

Students who register during late registration are expected to pay a late registration fee of \$75. Payment may be made by cash, certified check, cashier's check, personal check, money order, MasterCard, Visa, American Express or Discover Card. Checks and money orders should be payable to Norfolk State University and must include student's name or student ID number.

Payment Options

The University offers several options for paying tuition, fee, room and meal costs. Regardless of the option chosen, make certain payment or satisfactory arrangements are made by the scheduled class cancellation dates published for each semester.

OPTION 1

Make payments via **Spartan Self Service** on [MyNSU](http://www.nsu.edu/mynsu/) using your checking account or debit/credit cards with VISA, MasterCard, American Express or Discover logos.

OPTION 2

Pay balances at the Cashier's Office (Cash, Personal Check, Money Order, VISA, MasterCard, American Express or Discover Card). Credit card payments can also be made by calling (757) 823-8545. Checks should be made payable to Norfolk State University and must include the student's name and I.D. number. A \$50 returned check fee will be assessed on all non-negotiable checks. Payments may be mailed

(NO CASH PLEASE). If mailing payments, please allow one week for delivery time. Mail payments to the following address:

Cashier's Office
Student Services Center, Suite 209
Norfolk State University
700 Park Avenue
Norfolk, Virginia 23504

OPTION 3

Pay with a combination of financial aid grants and Ford Direct Loans, Parent Plus Loans, alternative/private loans and cash. Non-university scholarships are not credited toward tuition, fees, room and board charges until funds are received. However, these awards may be counted as expected financial aid when establishing payment plans (see below) and included in the total amount of aid that will be used toward payment of University expenses. A copy of non-university scholarship notification should be sent to the Financial Aid office.

NOTE: Parent Plus and alternative/private loans must be approved by the lender and the loan application and approval must be received in Student Accounts before credit can be given for the loan amount.

Apply for financial aid dollars early. The Free Application for Federal Student Aid (FAFSA) can be completed on-line at www.fafsa.ed.gov. Processing may take up to six weeks.

OPTION 4

Pay monthly through a TuitionPay (a processing fee will be charged by TuitionPay) semester or annual payment plan. Benefits of this plan include:

- No burden of a lump sum payment if started early
- Manageable, interest-free installment payments
- Reduced need to borrow
- Tuition Insurance at no extra cost

Plan combined with Financial Aid

TuitionPay payment plan is available to all students who owe a balance. There are two easy ways to enroll in the TuitionPay plan:

BY PHONE: Call a TuitionPay Education Payment Counselor at (800) 635-0120.

BY INTERNET: Go to the [TuitionPay website](#) and follow instructions to set up a monthly payment plan.

TUITION PAY OPTION IS AVAILABLE DURING FALL AND SPRING SEMESTERS ONLY. NO TUITION PAY PLANS ARE AVAILABLE FOR SUMMER SCHOOL.

OPTION 5

Special payment arrangements can be made for those students receiving tuition and fee assistance from non-University sources (third party sponsorships and scholarships). In such cases, the outside agency must make the payment directly to Norfolk State University within 30 days of the billing date. In order to receive

the special arrangements, the student must bring or send a letter of authorization from the granting agency to the Office of Student Accounts, Student Services Center, Suite 209, prior to or at the time of registration.

- Services at (757) 823-8381 for an application and more information.
- Prior balances cannot be put on the CP or NSU Payment Plans.

BILLING

The University sends e-mail statements each semester to students who have an outstanding balance or have had activity on their accounts during the statement period. The statement will show the balance brought forward and detail the activity for the period covered. Statement information is available at MyNSU.

Questions pertaining to billing should be directed to the Student Services Center or at <http://www.nsu.edu>

DELINQUENT ACCOUNTS

Students who fail to honor payment arrangements or have balances resulting from incomplete or canceled financial aid will have grades, transcripts, diplomas, certifications, and non-mandatory verifications withheld. Payment in full will be required to release the financial hold.

Delinquent accounts are referred to collection agencies and/or attorneys and are reported to the credit bureau. The University is permitted under Virginia Law to attach Virginia State income tax refunds and lottery winnings in repayment of any debt which is owed to the University. In the event an account becomes delinquent, the student is responsible for all reasonable administrative costs, collection fees, and attorneys' fees incurred in the collection of funds owed to the University.

FINANCIAL AID

The purpose of Norfolk State University's financial aid program is to provide assistance to eligible students who, without such aid, would be unable to attend the University. Aid is awarded on the basis of financial need and or merit. Types of aid include scholarships, grants, loans, and employment.

The University offers a number of awards each year to eligible returning students and to students who have been accepted for admission. Some of these awards are available only to Virginia residents while others are awarded without regard to state residency.

Generally, students must be enrolled at least half-time, matriculating in a degree-seeking program or certification, and be in good academic standing in order to be eligible for financial assistance. However, certain programs require a student to maintain a full-time status, and certain programs award assistance to less than half-time students.

An entering student must be accepted for admission before receiving a financial aid award offer. Award notifications are sent via mail for new students and MyNSU for returning students beginning in April.

The information on financial aid contained in this catalog is subject to change or deletion as circumstances warrant.

For more information about financial aid, please review the NSU Financial Aid Consumer Information Guide www.nsu.edu/financialaid/pdf/FinancialAidConsumerInformationGuide

APPLYING FOR FINANCIAL AID

The most important step in the financial aid process is to apply using the *Free Application for Federal Student Aid (FAFSA)*. This form can be completed online at www.fafsa.ed.gov and should be submitted as soon as possible after January 1 for the ensuing academic year. In order to electronically sign and submit the FAFSA, the student and parent must have a Personal Identification Number (PIN). The PIN serves as an electronic signature. First time applicants or those who do not have a PIN can apply for one by linking from the FAFSA site to www.pin.ed.gov. Once a PIN has been issued, it remains the same throughout the student's collegiate career. For more information on the FAFSA process, you may call (800) 433-3243.

The NSU priority deadline for completing the FAFSA is March 15. Financial aid is awarded on an annual basis. Students must complete the FAFSA each year in order to be considered for financial aid. Students must reapply for financial aid each year and continue to meet eligibility criteria.

Once the FAFSA is received and processed, the Department of Education will provide the applicant with a *Student Aid Report (SAR)*. NSU will receive an *Institutional Student Information Record (ISIR)* if the student has provided the NSU Federal School Code (003765). These reports will include the student's Expected Family Contribution (EFC). The EFC is calculated using a standard formula established by Congress, and is used as a measure of a family's financial ability to contribute to educational expenses. The Financial Aid Office will use this number to construct a financial aid package.

The Department of Education and/or NSU may select students for a process called verification. Selected students will have to prove the information they reported on their FAFSA is correct. If selected, students

may be asked to verify: income, federal income tax paid, household size, independent student status, number of family members enrolled in post-secondary education, and untaxed income or benefits received. Students may be required to provide copies of other appropriate forms as well. Students who are selected for verification will be notified by the Financial Aid Office. To prevent delays in processing, promptly provide any additional documentation that is requested.

ENROLLMENT STATUS

Undergraduate and graduate students may be considered for financial assistance based on the number of credit hours enrolled for each term. If enrolled less than full-time, aid may be pro-rated based on reduced cost of attendance. If enrolled less than half-time, generally only undergraduate students with Pell eligibility may be considered for assistance.

For financial aid purposes, enrollment status is based on the following listed information.

CREDIT HOURS	UNDERGRADUATE	GRADUATE
12 or more	Full-Time	Full-Time
9-11	Three-Quarter	Full-Time
6-8	Half-Time	Half-Time
1-5	Less than Half-Time	

COST OF ATTENDANCE

Each year the Financial Aid Office provides an estimated cost of attendance for the University. Cost of attendance is based upon tuition and fees, as approved by the Board of Visitors, housing, meals transportation and other expenses related to attending school.

NOTIFICATION OF AWARDS

Incoming freshmen are notified via U.S. mail and e-mail of their financial aid offer. Current students should check their account online via MyNSU for award notification and other correspondences from the Financial Aid Office. The official form of communication for current NSU students is e-mail.

GRANTS

Federal Pell Grant

Federal Pell Grants are available to undergraduate students only and are administered by the Financial Aid Office. Eligibility is determined by the Expected Family Contribution (EFC) from the FAFSA. The student must be enrolled for at least one (1) semester hour.

Federal Supplemental Educational Opportunity Grant (FSEOG)

Federal Supplemental Educational Opportunity Grants are awarded to students who have exceptional financial need and are available to undergraduate students only. FSEOG is awarded to students with the highest need levels. Priority is given to students who are enrolled full-time and are Pell eligible.

Teacher Education Assistance for College and Higher Education (TEACH) Grant

The Teacher Education Assistance for College and Higher Education Grant is available to undergraduate and graduate students that are taking course work that is necessary to begin a career in teaching or plan to complete such course work. Recipients may be referred to the Financial Aid Office by the School of Education and sign a TEACH Grant Agreement to serve.

Virginia Guaranteed Assistance Program (VGAP)

The Virginia Guaranteed Assistance Program is available to Virginia students. This scholarship is renewable for three years; the student must have a 2.5 high school grade point average and be enrolled full-time as a needy, dependent student. The student must also complete at least 12 hours per semester, with at least a 2.0 grade point average to renew the award.

Virginia Commonwealth Award

Commonwealth awards are available to Virginia residents who show evidence of need. Awards are renewable for subsequent years as long as the student maintains satisfactory academic progress and funds are available. Student must be enrolled at least half-time and awards may not exceed the cost of tuition and fees.

College Scholarship Assistance Program (CSAP)

Student must be enrolled the academic year for which the award is to be received, as at least a half time undergraduate in a degree program; student must also be a domiciliary resident of Virginia; student must demonstrate financial need; student must maintain satisfactory progress; student must advance to next classification in order to be considered for CSAP.

SCHOLARSHIPS

While every attempt is made to meet a student's financial need, funds are limited and a student may require additional funds to cover their expenses. Students who require additional funds may wish to first consider applying for institutional and external scholarships:

Institutional Scholarships – The Institutional Scholarship Guide has been prepared to apprise students of various scholarship opportunities available. Institutional scholarships are provided by the various schools and departments on campus. We encourage you to apply early and adhere to the scholarship application deadlines. Applications can be obtained from the contact person/department listed in the Guide. Check for Institutional scholarships online at www.nsu.edu/financialaid/scholarships

External Scholarships – External Scholarship Information has been prepared to apprise students of various outside scholarship opportunities. The External Scholarships are provided by various off-campus agencies and organizations. We encourage you to apply early and adhere to the scholarship application deadlines.

Applications for these outside scholarships can be obtained by visiting the agencies websites. Check for external scholarships online at www.nsu.edu/financialaid/scholarships

LOANS

WILLIAM D. FORD FEDERAL DIRECT LOAN

Federal Direct Loans are for undergraduate and graduate students. There are two major types of Federal Direct Loans: **Subsidized and Unsubsidized**.

Subsidized Federal Direct Loans provide low interest rates and are available to students who have financial need. A credit check is not required to receive these loans. The federal government pays the interest on these loans until six months after the student is no longer enrolled in school at least half-time. If the first disbursement is after July 1, 2012, the first interest rate is 6.8%. Students must monitor SAP. Freshmen can borrow \$3500, Sophomores - \$4500, Juniors and Seniors - \$5500. The aggregate amount as an undergraduate is \$23,000.

Unsubsidized Federal Direct Loans provide low interest rates and are available to all students regardless of financial need. A credit check is not required to receive these loans. The student is responsible for the interest, which may be paid while the student is in school or accrued and then added to the principal balance when the student enters repayment. Repayment begins six months after the student is no longer enrolled in school at least half-time.

Federal Direct Loan Fees

Federal Direct Loan awards have origination fees. Subsidized and Unsubsidized Direct Loans currently have a 1.5% origination fee with a 1.0% rebate if the first 12 monthly payments are made on time. Because of these fees, the actual Direct Loan amounts applied

to your university bill will be lower than those listed on your award notice.

Federal Direct Parent Plus & Graduate Plus

Parents and graduate students who wish to apply for the PLUS or GRADUATE PLUS loan must go through a credit check AND complete a William D. Ford Direct Loan Master Promissory Note. Graduate students and parents of dependent students MUST go to the website www.studentloans.gov to complete this process. You will need your FAFSA PIN number. Parents must apply up to the cost of attendance minus other financial aid received.

STUDENT EMPLOYMENT FEDERAL AND INSTITUTIONAL WORK STUDY

Work-Study provides eligible students another source of financial aid. Work-study programs allow students to gain valuable experience and networking opportunities. Eligible students are awarded either federal or institutional work-study. Institutional Work-Study excludes employment in certain departments, such as Athletics, Housing, Student Activities, Parking, Fitness Center, and Band. Eligible Work-Study students may also work in community service jobs. Students awarded works-study can view job announcements via the web at www.nsu.edu/work-study. Funds are limited.

SATISFACTORY ACADEMIC PROGRESS (SAP) POLICY

Norfolk State University is required by federal regulations to adhere to minimum standards of Satisfactory Academic Progress (SAP) that relate to a student's eligibility for federally funded financial aid programs, state and institutional grants, scholarships, employment, and loan programs. Students must meet minimum SAP standards in order to receive and to maintain eligibility for Title IV funds. The SAP standards apply to all students in degree seeking programs of study who wish to be considered for financial aid. SAP is a qualitative as well as a quantitative measurement of courses attempted and courses completed.

Academic Level Requirements – Completed hours must equal 67% of hours attempted to meet SAP standards. (For example: you must pass 11 credit hours out of 15 credit hours attempted) Students must not exceed 150% of attempted credit hours required to complete the program of study. Students must maintain a certain cumulative grade point average by advancing to the next academic classification level. Failure to maintain the minimum cumulative grade point average will result in the cancellation of financial assistance or denial of financial assistance. The minimum grade point average for each classification level is indicated below:

Academic Classification Level	Total Credit Hours Earned	Cumulative Grade Point Average
Freshmen	Less than 30	1.7 or higher
Sophomores	30 - 59 credit hours	1.8 or higher
Juniors	60 - 89 credit hours	2.0 or higher
Seniors	90 or more credit hours	2.0 or higher
Graduate Students	XXXXXXXXXX	3.0 or higher

These minimum standards are required in order to be considered for all federal, state, or institutional financial assistance. Aid will be terminated for any student who does not maintain the minimum standard.

TO REINSTATE FINANCIAL AID

In order to regain financial aid eligibility, students must enroll in classes at their own expense to advance their cumulative grade point average to the minimum SAP standards. After successfully obtaining the minimum SAP standards according to the classification level, students may be reinstated or considered for financial assistance for the upcoming terms. It is the student's responsibility to notify the Financial Aid Office of an advanced cumulative grade point average that meets the minimum SAP standards within the allotted time frame for awarding aid for the upcoming term. Questions regarding financial aid should be directed to the Financial Aid Office at (757) 823-8381 or faxed to (757) 823-9059.

APPEAL PROCESS

To appeal a denial of financial aid, the student may submit a completed Application for Financial Aid Appeal, along with all supporting documentation and an academic plan. The Application for Financial Aid Appeal must be inclusive of an academic plan constructed by the student and his/her advisor. The Application for Financial Aid Appeal can be obtained at <http://www.nsu.edu/financialaid>.

In Person: Financial Aid Appeals Committee
Student Services Center, Suite 211

Via Mail: Financial Aid Appeals Committee
Norfolk State University
Student Services Center, Suite 211
700 Park Avenue
Norfolk, VA 23504

Via Fax: (757) 823-9059

Include the student's name and ID number on all documents. The appeals deadline is one month prior to the start of the term. The Financial Aid Appeals Committee will notify students of the appeals decision via their official NSU e-mail address.

WITHDRAWAL AND RETURN OF TITLE IV FUNDS

The Financial Aid Office is required by federal statute to recalculate federal financial aid eligibility for students who withdraw, drop out, are dismissed, or take a leave of absence prior to completing 60% of a semester. The Federal Title IV financial aid programs must be recalculated in these situations. Title IV funds include Pell, FSEOG, Perkins Loans, Direct Subsidized, Direct Unsubsidized, and PLUS loans.

If a student leaves the University prior to completing 60% of a semester, the Financial Aid Office recalculates eligibility for Title IV Funds. Recalculation is based on the percent of earned aid using the following Federal Return of Title IV Funds formula: Percent of aid earned = the number of days completed up to the withdrawal date, divided by the total number of days in the semester. (Any break of five days or more is not counted as part of the days.) The University may be required to return a portion of the funds, and the student may be required to return a portion of the funds. Keep in mind that when the Title IV Funds are returned, the student may owe a balance to the University. If that is the case, the student should contact the Office of Student Accounts to make arrangements to pay the outstanding balance.

OTHER SERVICES

1. Active Duty Personnel

Active duty military personnel may qualify for either VA Assistance or the Tuition Aid Program of the Armed Forces which provides partial payment of tuition costs. For information about the VA Assistance, contact the Veterans Affairs Office on campus. For information about the Armed Forces Tuition Aid Program, contact your Educational Services Office.

2. Part-Time Employment

The University keeps in close contact with local business concerns through which many students are placed in positions which offer remuneration for work experience.

3. Social Security Benefits

Students eligible to receive social security benefits should contact their local Social Security Office for more information.

4. State Vocational Rehabilitation

Disabled or handicapped persons may qualify for educational assistance through the Virginia

Department of Vocational Rehabilitation. These persons are required by the Department to apply for financial assistance through Norfolk State University.

5. Veterans Benefits

Students may apply for educational benefits through the **Veterans Administration (VA) Vocational Rehabilitation Program**. Dependents of some disabled or deceased veterans may qualify for educational benefits. For more information, contact the Veterans Affairs Office at (757) 823-2586. Veterans enrolling under the Veterans Readjustment Benefits Act of 1966 or under other federal programs may enroll in special college and terminal curricula. Special counseling and guidance are available in the Office of Veterans Affairs.

Since the University receives no funds from the government for tuition and fees for veterans studying under the **Veterans Readjustment Benefits Act of 1966**, students registered under such authorization must make payments according to the schedule of fees.

Additional information about financial aid programs can be secured from the financial aid office at Norfolk State University by visiting NSU's website at www.nsu.edu and by checking the federal website at www.fafsa.ed.gov.

6. Virginia Military Survivors and Dependent Education Program (VMSDEP)

The purpose of the VMSDEP is to provide eligible students enrolled in a Virginia public college or university with certain educational benefits in acknowledgement of the military service and sacrifice of their military parent or spouse. To be eligible for assistance under this program, an applicant must meet the following basic eligibility requirements:

- a) A spouse of a qualifying military service member; or
- b) A child, between the ages of 16 and 29, inclusive, of a qualifying military service member
- c) One of the applicant's parents must have served on active duty in the armed forces of the United States during at least one of the following: military operations against terrorism; a peace keeping mission; or as a result of a terrorist act; or any armed conflict subsequent to December 6, 1941.
- d) While serving active duty the applicants parents must meet at least one of the following: was killed; was missing in action; was prisoner of war; or is a veteran who, due to such service has been rated as permanently disabled or at least 90 percent disabled.
- e) Has one of the qualifying domicile status:

- i. Virginia domicile at time of entering service or called up from reserves;
- ii. Virginia domicile for at least five years immediately prior to student applying for VMSDEP;
- iii. If deceased, was Virginia domicile on, and for at least five years prior to, his death;
- iv. in the case of a qualifying child, is deceased and the surviving parent has been, at some point previous to marrying the deceased parent, a Virginia domicile for at least five years or is and has been a Virginia domicile for at least five year prior to the student's application for this benefit; or in the case of a qualified spouse, is deceased and the surviving spouse had been, at some time previous to marrying the deceased military spouse a Virginia domicile for at least five years prior to student's admission application.

Eligible students, as confirmed by the Virginia Department of Veterans Services (DVS), are guaranteed waiver of all tuition and mandatory fees at a Virginia public college or university regardless of degree program or enrollment level. Summer awards are available if the student did not use the full annual award during the prior fall and spring terms, as funds are available.

Award amounts may be reduced if the number of eligible students exceeds projections. This award is not reduced by receipt of other gift aid, except that, when combined with other gift aid, the combination of assistance cannot exceed the student's cost of attendance. Applications for VMSDEP should be submitted to DVS along with the student's acceptance letter to a Virginia public college. Applications can be obtained at <http://www.dvs.virginia.gov/statebenefits.htm>

U.S. Code, 38 U.S.C. 3679(c), Veterans Access, Choice, and Accountability Act of 2014 (Effective July 1, 2015)

The following individuals shall be charged a rate of tuition not to exceed the in-state rate for tuition and fees purposes:

- A veteran who lives in Virginia, regardless of formal state of residence or domicile, and enrolls in this institution within three years of discharge from a period of active duty service of 90 days or more using benefits under the Post-9/11 GI Bill and Montgomery GI Bill-Active Duty.

- Anyone using transferred benefits under the Post-9/11 GI Bill and Montgomery GI Bill-Active Duty who lives in Virginia, regardless of formal state of residence or domicile, and enrolls in this institution within three years of the transferor's discharge from a period of active duty service of 90 days or more
- Anyone using benefits under the Marine Gunnery Sergeant John David Fry Scholarship who lives in Virginia, regardless of formal state of residence or domicile, and enrolls in this institution within three years of the Service member's death in the line of duty following a period of active duty service of 90 days or more; and
- Anyone described above while he or she remains continuously enrolled (other than during regularly scheduled breaks between courses, semesters, or terms) at the same school. The person so described must have enrolled in the school prior to the expiration of the three year period following discharge, release, or death described above and must be using educational benefits under either chapter 30 or chapter 33, of title 38, United States Code.

STUDENT REFUNDS

- Refunds are given ONLY after all University obligations are paid in full. Financial aid awarded but not received by the University is not considered in the refund calculation. The refund process will begin approximately seven working days after the last date of class cancellation. Notifications will be sent to students via their NSU e-mail accounts one refunds have been processed.
- Students may sign up to receive refunds via direct deposit to a designated bank account. Banking information can be provided on [MyNSU](#) under Spartan Self Service.
- TUITION APPEAL

Norfolk State University will promptly refund tuition and/or cancel a financial charge from a student's account provided that the student meets the requirements of the University's policy on tuition appeals and submit supporting documentation. Appeals that do not represent a sound basis for reimbursement will be denied.

Submitting an Appeal

Appeals are accepted in the Office of the Registrar, Student Services Building, Suite 212
700 Park Avenue, Norfolk, Virginia 23504.

For more information on the tuition appeal process or on obtaining an appeal form, please contact the Office of the Registrar at (757) 823-8229.

RESIDENCE HALL FINANCIAL INFORMATION

RESIDENTIAL FEES

All students who plan to live on campus must pay a non-refundable housing deposit of \$300.00 by the deadline date, (May 1st for fall entry or November 1st for spring entry) to reserve on-campus housing. Only applications accompanied by deposits will be considered. No bed spaces are guaranteed after the deadline dates.

Upon receipt of a bill from NSU, the entire room and board balance must be paid in full or payment arrangements made with the Office of Student Accounts by the respective May 1st/November 1st deadline date. To inquire about individual accounts, students should contact the Office of Student Financial Services at (757) 823-8381.

Students are required to occupy the assigned room on or before the first day of classes. Failure to do so could result in the loss of on-campus housing.

Damage Deposit

Students who desire to live in the residence facilities will be required to pay a non-refundable residential room deposit of \$300.

Financial Arrangements

Students must confirm housing arrangements before arrival by completing a Residential Life application and paying the \$300 deposit.

Students must make satisfactory payment arrangements before a room key is issued.

Financial Obligations and Registration

Students are required to fulfill their financial obligations for tuition, fees, room, and meals for each semester of enrollment. Prior balances must be paid before students will be allowed to register for classes in subsequent semesters. Payment arrangements for the

current semester must be in place to complete the registration process and prevent the deletion of class schedules. Returning students will not be allowed to obtain a key to residence halls until all financial obligations to the University are satisfied.

Refunds for room reservation deposits will be made for the following reasons:

- Space is not available to accommodate the student;
- The student is called for active duty prior to the first day of class;
- The student is deceased; or
- The prospective student is not admitted to the University

RESIDENCE HALL WITHDRAWAL PROCEDURES

Contract Cancellation and Penalties: Neither voluntary withdrawal nor eviction from the residence halls will relieve the student of financial liability for the amount payable under this contract in addition to any and all collection charges he/she may incur.

Students who withdraw from the University and/or an assigned room must terminate their University Housing Contract by completing the Contract Cancellation Form. Upon withdrawal from University housing during either the Fall or Spring semester, all room and meal plan fees will be assessed on a semester basis as follows:

<u>Withdrawal/Drop Period</u>	<u>Refund to Student</u>
Before first day of class	100% Room & Board Prorated
First week of class	based on days occupied
Second week of class	75% Room and Board
Third week of class	0%

Failure to officially terminate the contract in the prescribed manner may result in additional fees and/or charges, including but not limited to moving and/or storage charges. NSU is not responsible for any items left and/or stored in any residential facility upon move-out.

ACADEMIC INFORMATION

THE ACADEMIC YEAR

The academic year consists of 30 weeks of instructional time divided into two semesters. The first semester begins in late August and ends before the Christmas holidays; the second semester begins in January and ends in May. See the academic calendars provided in the front of this catalog.

There is a short Thanksgiving recess that begins at the end of classes on the Tuesday before Thanksgiving and ends on the Monday immediately after Thanksgiving. There will be approximately three weeks between the end of the first semester and the beginning of the second semester. There is a spring vacation period of one week beginning on Monday of the week following mid-semester examinations. Classes resume the following Monday. Instruction is also suspended on legal holidays, i.e., Labor Day, Lee, Jackson, King Day and Independence Day.

THE SUMMER SESSION

An optional summer session is offered and includes two mini terms; a six-week term and a four-week term. It offers significant opportunities for entering freshmen and other students who wish to accelerate their studies and satisfy degree requirements. Various short workshops and institutes on topics of current interest are part of the summer offerings. The summer session begins one week after the conclusion of the spring semester.

THE CURRICULUM

The curriculum is the vehicle through which the University seeks to make its most significant impact upon the lives of students. Developing, implementing, and updating curricula is the responsibility of the faculty and academic administrators. Curricular offerings are described in this catalog for each academic program.

COURSE NUMBERING

The three digit number will convey the course level and certain specific information as outlined:

- 100-199 Freshman Level Courses
- 200-299 Sophomore Level Courses
- 300-399 Junior Level Courses
- 400-499 Senior Level Courses
- 500-599 First Year Graduate Courses
- 600-699 Graduate Courses

Seniors who meet the qualifications outlined in the Graduate Catalog may, with the approval of the graduate program director, enroll in 500 level courses.

UNIT OF INSTRUCTION

The semester credit hour is the unit of instruction used for computing the amount of work required for assigning credit. One semester hour is equivalent to one 50 - 70 minute period of instruction or lecture per week for 15 weeks. Two or three 50-minute periods of laboratory sessions are equal to one period of instruction or lecture.

MAJOR COURSE OF STUDY

Courses are organized around the major, the subject or area around which students center their studies according to talents, interests, and future plans. Usually, a student has confirmed a choice of a major by the end of the sophomore year, by which time he or she might have taken some beginning courses in the major field. The student will then take advanced courses in the major in the junior and senior years.

The major consists of a minimum of 27 semester hours in a subject or discipline. In addition to courses in the major, the student also gains general knowledge and determines interest in various fields of study in general education courses and electives.

ELECTIVE COURSES

Courses not taken to fulfill general education or major requirements may be chosen as electives to complete the minimum of 120 semester hours required for graduation. In the choice of electives, students should be guided by their prospective work and interest.

MINORS

Norfolk State University provides an opportunity for undergraduate, degree-seeking students to pursue studies in a minor. The minor may be chosen to complement the major, to provide recognition of study in a second academic area, to meet an area of interest by the student, or to increase job opportunities upon graduation. Completion of a minor is optional and is not required for degree completion. Minors are offered in Accounting, Astronomy, Biology, Chemistry, Computer Science, English, Fine Arts, History, Interdisciplinary Studies, Military Science, Mass Communications/Journalism, Music, Physics, Political Science, and Sociology.

Students who wish to pursue a minor must consult with the academic advisor at any time, but no later than the time to submit an application for graduation, and must declare a minor by completing a Change of Major/Minor Form. The minor will not appear on the diploma. All applicable University, school and departmental (major and minor) policies and procedures must be followed. Appropriate paperwork must be completed in a timely manner and must meet applicable deadlines.

REQUIREMENTS FOR THE ASSOCIATE OF SCIENCE DEGREE

The University awards the associate of science degree to those who successfully complete requirements as set forth for the program desired. Candidates for the associate degree must complete an application for graduation through the academic departments and pay the required graduation fee. At least 20 hours of general

The University awards the associate of science degree to those who successfully complete requirements as set forth for the program desired. Candidates for the associate degree must complete an application for graduation through the academic departments and pay the required graduation fee. At least 20 hours of general education core are required of students pursuing an associate degree. At least 25% of the coursework leading to an associate degree must be completed in residence (at Norfolk State University). Associate degree candidates must meet core competencies required of all NSU undergraduate students.

Minimum requirements for the associate degree are 60 semester hours with a cumulative grade point average of 2.00. A minimum grade of "C" or better is required in major courses and in ENG 101, ENG 102, and SEM 101, 102 and 201.

GENERAL EDUCATION CORE PROGRAM

The general education core at Norfolk State University provides the foundation for the University's mission to develop in students the knowledge, qualities and attitudes necessary to become productive citizens who contribute to a globally and rapidly changing society. Such citizens are educated persons. They are life-long learners who communicate effectively and appreciate diverse manifestations of different cultures, recognize and exercise their responsibility to contribute to the growth of society, use technology appropriately to enhance their personal and professional lives, and possess a rational open-mindedness that leads to analytical and critical patterns of thought.

The breadth of knowledge and skills required by the general education core complements the depth of knowledge that students acquire in their specialized fields, thus enhancing their ability to contribute to their local, national, and global communities.

Students entering Norfolk State University who complete the general education core will be able to:

- Write and speak logically, clearly, and precisely.
- Read and comprehend written and graphic information.
- Locate, compile, organize, and document information from print and digital sources.
- Understand mathematical and technological thought and conceptualize appropriate logic in problem solving.

- Understand and apply key concepts, principles and processes in the natural and social sciences.
- Demonstrate technological proficiency appropriate to their professional and personal needs.
- Examine, evaluate, and appreciate history's influences on economic, political and social events.
- Understand and appreciate diverse cultures and perspectives.
- Examine and understand the role of personal and responsible citizenship in democratic society.
- Appreciate aesthetics.

GENERAL EDUCATION REQUIREMENTS FOR THE ASSOCIATE DEGREE

Norfolk State University offers an associate degree program in Architectural Drafting. Students seeking an associate degree are required to complete general education core requirements appropriate to the degree program. See the associate degree program description and curriculum for more information about specific general education core requirements.

OFFICE OF ACADEMIC ENGAGEMENT: SPARTAN SEMINAR SERIES

Norfolk State University has created signature initiatives for student success. The Spartan Seminar Series will serve students into their sophomore year; three total semesters will provide sustained opportunities to onboard and socialize students into the academic culture and expectations of the institution. The three required courses are designed to increase academic performance, persistence, and preparation for success, resulting in students who are acutely aware, distinctively prepared and perpetually affiliated with Norfolk State University. During the first year, freshmen will take Spartan Seminar 101 and 102. Spartan Seminar 201 will follow in the sophomore year.

For more information, please contact the Office of Academic Engagement at (757) 823 - 9081.

GENERAL EDUCATION REQUIREMENTS FOR THE BACCALAUREATE DEGREE

Students entering Norfolk State University seeking the baccalaureate degree are required to take forty (40) semester hours from the general education core curriculum consisting of the following subject areas:

COMMUNICATIONS (9 SEMESTER HOUR)	
ENG 101	College English I
ENG 102	College English II
ENG 285	Public Speaking
DIGITAL, COMPUTER & TELECOMMUNICATIONS (3 SEMESTERHOURS)	
CSC 150	Computer Literacy
HEALTH AND PHYSICAL EDUCATION (3 SEMESTER HOURS)	
PED 100	Fundamentals of Fitness for Life
HED 100	Personal and Community Health
HUMANITIES (3 SEMESTER HOURS)	
ENG 207	Literature for the Western
FIA 201	Basic Art Appreciation
MUS 301	Music Appreciation
MATHEMATICS (3 SEMESTER HOURS)	
MTH 103	Mathematics in General Education
SPARTAN SEMINAR SERIES (3 SEMESTER HOURS)	
SEM 101	Spartan Seminar 101
SEM 102	Spartan Seminar 102
SEM 201	Spartan Seminar 201

NATURAL SCIENCES (7 SEMESTER HOURS)	
BIO 100	Biological Science
BIO 100L	Biological Biological Science Lab
SCI 101	Introduction to Physical Science
SCI 101L	Physical Science Laboratory
SOCIAL SCIENCES (3 SEMESTER HOURS)	
SOC 101	Introduction to Social Sciences
HIS 101	History of World Societies Part 2
HIS 103	United States History 1865 to the Present
BUS 175	Introduction to Business and Entrepreneurship
ECN 200	Basic Principles of Economics
CULTURAL PERSPECTIVES (6 SEMESTERHOURS)	
ENG 383*	African-American Literature
MUS 234*	African-American Music
HIS 335*	African-American History, Part 1
HIS 336*	African-American History, Part 2
HRP 320*	African American Health
HIS 371*	African History and Culture

* Courses marked with an asterisk satisfy the University's cultural elective requirement. Departments may require specific courses for their majors.

REQUIREMENTS FOR THE BACHELOR'S DEGREE

Requirements for the bachelor's degree are both quantitative and qualitative. The department head and advisor make the initial check for fulfillment of departmental requirements. The Office of the Registrar makes the final check for compliance with University-wide requirements.

To receive the bachelor's degree, a student must:

- Complete Spartan Seminar Series (SEM 101, 102 and 201) with a minimum grade of "C." An exemption approval form is available in the academic departments.
- Complete the General Education Core requirements.
- Have a minimum cumulative grade point average of 2.0.

- Have a minimum of 120 semester hours of credit.
- Meet all requirements of the curriculum leading to the degree for which he or she is a candidate.
- Have spent a minimum of two semesters in residence at Norfolk State University and have earned a minimum of 30 semester hours of credit during this period, including all of the courses required by the senior year curriculum.
- Meet core competency requirements.

Exceptions to degree requirements may be made only with PRIOR written approval of the Provost upon recommendation of the Department Head and College/School Dean. Exceptions may not exceed six semester hours of academic credit.

GENERAL EDUCATION REQUIREMENTS FOR THE ASSOCIATE DEGREE

COMMUNICATIONS (6 SEMESTER HOURS)	
ENG 101	College English I
ENG 102	College English II
DIGITAL, COMPUTER & TELECOMMUNICATIONS (3 SEMESTER HOURS)	
CSC 150	Computer Literacy
HEALTH AND PHYSICAL EDUCATION (3 SEMESTER HOURS)	
PED 100	Fundamentals of Fitness for Life
HED 100	Personal and Community Health
NATURAL SCIENCES (3 SEMESTER HOURS)	
PHY 152	General Physics
PHY 152L	General Physics Lab
SPARTAN SEMINAR SERIES (3 SEMESTER HOURS)	
SEM 101	Spartan Seminar 101
SEM 102	Spartan Seminar 102
SEM 201	Spartan Seminar 201

MATHEMATICS (3 SEMESTER HOURS)	
MTH 153	College Algebra/ Trigonometry
SOCIAL SCIENCES (3 SEMESTER HOURS)	
SOC 101	Introduction to Social Science
HIS 100	History of World Societies I
HIS 101	History of World Societies II
PSY 210	Introduction to Psychology
ECN 200	Basic Principles of Economics
HUMANITIES ELECTIVE (3 SEMESTER HOURS)	
HUM 210	Humanities
HUM 211	Humanities
FIA 201	Basic Art Appreciation
MUS 301	Music Appreciation
ENG 207	Intro. to World Literature

ACADEMIC STANDARDS

Students are expected to study and perform to the best of their abilities. In order to assure that students take maximum advantage of educational opportunities, the University sets academic standards that students must meet to remain in school.

Students receiving financial aid from federal, state, or institutional funds administered by the Office of Financial Aid must meet the academic standards required of all students, as well as the standards required by specific financial aid programs. Continued eligibility for financial aid is contingent upon good academic standing in the University and satisfactory progress toward the completion of a degree.

Academic standards of the University are outlined in the undergraduate and graduate catalogs, student handbook, financial aid publications, and publications of the academic schools and departments of the University. It is each student's responsibility to know the standards required and to understand that continued financial aid is dependent upon meeting these standards.

UNDERGRADUATE ACADEMIC STANDARDS

Satisfactory academic progress toward degree completion by the number of semester hours completed and by the number of quality points earned. A minimum of 240 quality points and 120 completed semester hours (a 2.0 or "C" average) is required for graduation. All departmental and school requirements must also be met. Minimum standards for satisfactory academic progress are:

ATTEMPTED RESIDENT HOURS	MINIMUM RESIDENT G.P.A.
1 - 29	1.7000
30 - 59	1.8000
60 and above	2.0000

CLASSIFICATION OF UNDERGRADUATE STUDENTS

CLASSIFICATION	DESCRIPTION
Freshmen	Students meeting all entrance requirements who have completed 0-29 semester hours.
Sophomores	Students who have completed 30-59
Juniors	Students who have completed 60-89 semester hours
Seniors	Students who have completed at least 90 semester hours
Full-Time	A student who is registered for a minimum of 12 credit hours during a given semester.
Part-Time	A part-time student is one who is registered for fewer than 12 credit hours during a given semester.
Non-Degree	A non-degree student is one who is not enrolled in a degree program (non-matriculating).

ACADEMIC LOAD / OVERLOAD

The normal course load for a full-time undergraduate student is 15 and no more than 19 semester hours. Students with a 3.00 grade point average or above may carry additional hours ONLY with appropriate approval by the academic advisor/department chairperson and school dean. A course load in excess of 19 semester hours must be approved by the Dean of the School in which the student's major is housed. Recommendation for Course Overload Form must be completed and signed by the department head/advisor before submission to the Dean's Office.

For graduate students, the normal course load for a full-time graduate student is 9 and no more than

15 semester hours. A course load in excess of 15 semester hours must be approved by the dean of the school/college.

DEAN'S LIST AND HONOR ROLL

Dean's List and an Honor Roll are compiled at the end of each fall and spring term and apply only to full-time (12-hour minimum) students. Eligibility for the Dean's List requires a minimum 3.50 term G.P.A. with no "I" (incomplete) or missing grades and no grade less than a 'C'. Eligibility for the Honor Roll requires a term G.P.A. of 3.00 -3.49 with no "I" or missing grades.

HONORS DESIGNATION

Students who have completed all degree requirements and have met the following criteria at the time degree requirements have been met will earn an honors designation. The following honors categories for baccalaureate graduates are reflected in the printed Commencement Program:

- **Summa Cum Laude:** cumulative resident G.P.A. 3.7500 - 4.0000

- **Magna Cum Laude:** cumulative resident G.P.A. 3.5000 - 3.7499
- **Cum Laude:** cumulative resident G.P.A. 3.0000 - 3.4999.

The honors designation will be noted on the official transcript.

Recognition of Honors at Graduation

Honors designations are based on the degree candidate's academic record the semester prior to Commencement. Degree candidates who have earned an honors designation will be recognized in the commencement program provided the honors designation was earned in the semester immediately preceding the anticipated commencement date. For additional information, see Commencement Participation in the Academic Policies section (p. 53).

GRADE REPORTS

Effective Spring 2006, grades are available online at MyNSU (<http://www.nsu.edu/mynsu>) under the Spartan Self Service tab), grade reports are no longer mailed to students. Anyone needing an official grade report for work or other purposes must complete a Request for Official Final Grade Report in the Office of the Registrar. The grade report will be mailed within 2-3 business days.

Information regarding the grading system is described in the Academic Standards section (p. 49).

Information regarding the grade appeal process is described in the Academic Policies section (p. 54).

THE GRADING SYSTEM

The grade (quality) point system based upon completed hours at Norfolk State University is used to calculate student scholarship as follows:

* Pass/fail grades are not available to graduate students, except in those courses designated for pass/fail credit.

** Entered by the Registrar

GRADE	QUALITY	GRADE	QUALITY POINTS
A	4.0000	C	2.0000
A-	3.7000	C-	1.7000
B+	3.3000	D+	1.3000
B	3.0000	D	1.0000
B-	2.7000	D-	0.7000
C+	2.3000	F	0.0000
* P	None	n/a	
**AU	None	Audit	
I	None	Incomplete Official	
W	None	Withdrawal	
NG	None	No Grade Reported	
S	None	Satisfactory	
#	None	Forgiven	

Academic Standards

The grade point average is obtained by dividing the total number of quality points earned by the total number of completed semester hours.

Example Grade Point Average Calculation

COURSE	TOTAL GRADE	CREDIT HOURS	QUALITY POINTS	TOTAL QUALITY
HIE 264	C	1	2.0	2.0000
HIE 264L	C+	2	2.3	4.6000
HIE 149L	B-	2	2.7	5.4000
ECE 340	B+	3	3.3	9.9000
FIA 280	A-	3	3.7	11.1000
MUS 301	D-	3	0.7	2.1000
TOTAL		14		35.1000

- Total quality points = semester hours multiplied by quality points
- G.P.A. = Sum of total quality Points divided by total semester hours
- A grade of 'F' = 0 completed semester hours

Example: 35.1000 total quality points divided by
14 total semester hours equals **2.5071 G.P.A.**

Removal of Incomplete (I) Grades

The "I" (Incomplete) grade may be used by the instructor during the final grading period when the course requirements have not been met because of illness or some other extenuating circumstance. In order to receive an "I" grade, the student must be passing the course and have completed 80% of all coursework. Except for cases such as internships, student teaching, or final projects that may require more time, students have until the 7th week of the following semester to complete and submit missed assignments as indicated on the Incomplete Contract. If work is not submitted by the due date, the default grade will be entered by the Registrar. If no default grade was submitted, the "I" grade will change to "F" (failure).

No student will be allowed to graduate with an "I" on the record.

Repeating Courses

A student who received a final grade less than an "A" in a course may repeat the course. The course to be repeated must be taken at Norfolk State University or the original institution offering the course (i.e., through consortium or cross registration agreement) and taken prior to completion of the degree at Norfolk State University. The normal registration procedure must be followed when registering for repeat courses, and the grade earned will be posted to the student's record. The credit and quality points for the highest grade earned (one

grade only) will be used to calculate the student's cumulative G.P.A. All courses attempted (the original course attempted and the grade for that course) will remain on the student's permanent record and will appear on the transcript. Students must pass all courses in the major with a grade of C or higher.

STANDARDS OF SATISFACTORY ACADEMIC PROGRESS

Undergraduate Students

Students must complete at least 67% of all courses attempted in order to maintain satisfactory academic progress. Courses that are not considered as "completed," but still count as hours attempted are failed (F) courses, incomplete (I) courses, dropped (D) courses and withdrawn (W) courses. Repeated courses will count toward hours earned if:

- a) a passing grade was earned, and the course had not been counted previously towards hours earned.

Academic Classification for Full-Time Undergraduate Students

These minimum standards must be met in order for a student to be considered for any state, federal, or institutional financial assistance. Aid will be terminated for any student who does not maintain the minimum standard or qualitative measurements. Also, students must not exceed 150% of the number of credits needed to complete a degree.

ACADEMIC PROBATION AND SUSPENSION

Students are expected to study and perform to the best of their abilities. In order to assure that students take maximum advantage of educational opportunities, the University sets academic standards that students must meet to remain in school. Students receiving financial aid from federal, state, or institutional funds administered by the Office of Financial Aid must meet the academic standards required by specific financial aid programs. Continued eligibility for financial aid is contingent upon good academic standing at the University and satisfactory progress toward the completion of a degree. Academic standards of the University are outlined in the undergraduate and graduate catalogs, student handbook, financial aid publications, and publications of the academic schools and departments of the University. It is each student's responsibility to know the standards required and to understand that continued financial aid is dependent upon meeting these standards:

LEVEL	TOTAL CREDIT HOURS EARNED	CUMULATIVE G.P.A.
Freshman	Less than 30	1.700 or higher
Sophomore	30 - 59	1.800 or higher
Junior	60 - 89	2.000 or higher
Senior	90 or more	2.000 or higher

Failure to achieve the academic standards listed above will result in academic probation, triggering the following academic probation reinstatement process:

1st Warning

Upon receipt of First Warning Probation Letter, the student must schedule an appointment with the Dr. Patricia Lynch Stith Student Success Center and meet with an academic advisor to:

1. Develop and sign an Academic Performance Contract for the upcoming semester.
2. See advisors for schedule revision if pre-registered or completed early registration. (Students who did not pre-register for the semester must see advisors to assist with course selection and registration).
3. Enroll in and complete the Study Skills Seminar (GST 200) conducted by the Dr. Patricia Lynch Stith Student Success Center.

2nd Warning

Upon receipt of Second Warning Probation Letter, the student must:

1. Complete an Academic Performance Contract
2. See advisor to revise course schedule or assist with course selection and registration
3. Enroll in required GST 200 Study Skills Seminar if not taken in the first probation warning.

NOTE: GST 200 Study Skills Seminar

This is a non-credit, 16-week seminar that meets weekly for one hour, designed for students who are on academic probation. The seminar introduces and promotes development of skills necessary to enhance academic success in college. Emphasis is placed on weekly activities to promote utilization of positive study habits. Topics discussed include learning styles, test-taking techniques, study skills, stress management, note-taking skills, critical thinking, reading, and writing skills.

Suspension

Students who are on probation and do not achieve the required grade point average after two warnings are subject to suspension from the University. A letter of suspension will be issued to the student.

Appealing Academic Suspension: Policy and Procedures

If a student wishes to appeal a suspension decision, a written letter of appeal must be faxed or mailed to the Office of the Registrar at least one month prior to the first day of class. Any appeals received after this date may be

deferred until the following semester. The appeal is submitted to the Suspension Appeals Committee and its decision is final. Notification of the outcome will be provided by the Office of the Registrar.

Readmission after Restoration of Academic Eligibility

Students suspended from the University for academic reasons must appeal the suspension prior to being re-admitted. It is strongly suggested that students adhere to the following requirements prior to appeal:

- Take courses (minimum: 6 credit hours) during the University's summer session and maintain a G.P.A. of 2.0 or better.
- Leave the University for one or more semesters (which may include one summer) complete a minimum of 6 credit hours of academic work at another college or university, and earn a grade point average of 2.0 or better each semester.

UNIVERSITY CORE COMPETENCIES

The administration and faculty of Norfolk State University are committed to providing a high-quality education for students. Among other things, this commitment requires providing documented evidence that students are competent in six areas: writing, information literacy, oral communication, quantitative reasoning, scientific reasoning, and critical thinking. As a result, with advance notice, students will be required to demonstrate competency in one or more of these areas before graduating from the University. Assessment of the remaining competencies is embedded in the related general education core courses. For example, assessment of scientific reasoning is embedded in courses meeting the Natural Sciences core.

COLLEGE-LEVEL EXAMINATION PROGRAM (CLEP)

As part of Norfolk State University's program of flexibility to meet student needs and aspirations, a student may earn up to 60 credit hours through the CLEP General and Subject Examinations.

Any student or prospective student who has not received credit for, or is not currently enrolled, in a college-level course in the particular field covered by the examination may take the test for CLEP credit.

CLEP is a nation-wide program of credit-by-examination that offers students the opportunity to obtain recognition for college level achievement; personal reading, on-the-job experience or volunteer activities that may have prepared one to earn college credit. Each school determines which CLEP tests it will accept for credit and the amount of credit it will award.

ACADEMIC POLICIES

ACADEMIC HONESTY

In keeping with its mission, the University seeks to prepare its students to be knowledgeable, forthright, and honest. It expects and requires academic honesty from all members of the University community. Academic honesty includes adherence to guidelines established by the University for the use of its libraries, computers, and other facilities.

"Academic or academically related misconduct" includes, but is not limited to, unauthorized collaboration or use of external information during examinations, plagiarizing or representing another's ideas as one's own, furnishing false academic information to the University, falsely obtaining, distributing, using, or receiving test materials, obtaining or gaining unauthorized access to examinations or academic research materials, soliciting or offering unauthorized academic information or materials, improperly altering or inducing another to alter improperly any academic record, or engaging in any conduct which is intended or reasonably likely to confer upon one's self or another an unfair advantage or unfair benefit respecting an academic matter.

Additional information regarding academic or academically related misconduct, and disciplinary procedures and sanctions regarding such misconduct, may be obtained by consulting the current edition of the Norfolk State University Student Handbook.

ATTENDANCE POLICIES

Absence from Final Examinations

If a student misses a final examination because of an emergency, he or she should notify the instructor within 48 hours after the examination was scheduled. Excuses for missing a final examination are issued by the Office of Student Services/Judicial Affairs only with the consent of the instructor. Such excuses are given only in EXTREME EMERGENCIES, and official, written documentation MUST be presented before an excuse is issued.

Failure to follow the procedure outlined for absence from final examinations will result in a grade of "F" for the examination, and a final grade will be computed and given for the course.

Class Attendance Policy

The University expects students to attend all classes. While absences are discouraged, the University recognizes that, on occasion, students may have legitimate reasons for being absent. Thus, a student will be permitted one "unexcused" absence per semester hour credit or the number of times a course meets per week. Once a student exceeds the number of allowed unexcused absences, an instructor may require an official University excuse. Not more than 20% of class meetings (excused and/or unexcused) may be missed by a student during a given semester. At the discretion of the instructor, a student whose absences exceed 20 percent of scheduled class meetings for the semester may receive a grade of F for the course.

Students have the responsibility to confer with instructors regarding all absences or intended absences. If a sudden departure from the campus (for an emergency or extraordinary reason) prevents a student from communicating with each of his or her instructors, the student is expected to notify the Dean of Students Office within 48 hours.

Class excuses are issued for legitimate reasons **as deemed appropriate** by the Dean of Students Office. Such reasons may include **but are not limited** to medical reasons, funerals for immediate family, and official University business/activity. Official written documentation may be required. Notes from relatives, friends, etc., are not accepted as "official" documentation for absences. The Dean of Students Office will determine if an absence is legitimate and if an excuse will be issued.

Students who become ill are encouraged to report to the Student Health Center, located in Spartan Station, for "minor" medical treatment. A current NSU ID card must be presented prior to treatment. Written verification of illness issued by the Health Center should be carried to the Dean of Students Office, and an official University excuse should be obtained.

Students residing in on-campus housing facilities are governed by the same policies and procedures as non-residential students insofar as class attendance and class excuses are concerned.

CHANGE OF MAJOR

Students who find it necessary to change majors should confer with the assigned University departmental advisor concerning the proposed change. An entrance interview should be scheduled and conducted with the department head or program director of the major to which the student is changing. The Petition to Change Major Form, available in each academic department, must be completed and signed by the department head of the relinquishing department and presented during the entrance interview. No student may change a major without approval of the department from which and to which a transfer is made.

COMMENCEMENT POLICY

Commencement exercises are held two times each year, in May and December. Candidates must complete all requirements no later than the desired graduation date.

The Office of the Registrar processes all applications for graduation. Any student expecting to complete academic requirements at the end of a semester must complete and file an application for graduation through the academic department head's office by the designated due date for the applicable semester. It is the responsibility of the department head to submit the necessary forms and documentation to the Registrar's Office in compliance with established deadlines. A graduation application fee will be assessed in accordance with the University Fee Schedule.

Students must resolve deficiencies and/or discrepancies in the academic record with the department heads within prescribed guidelines. Failure to do so may result in deferring graduation.

COMMENCEMENT PARTICIPATION

Candidates for graduation must complete all degree requirements or be currently enrolled in all remaining credits that will complete degree requirements and satisfy all financial obligations in order to participate in commencement ceremonies. Academic and financial clearances must be obtained before academic attire is issued to the student. Participation in the commencement ceremonies does not mean the student has been awarded a degree. The degree is awarded in the semester when all degree requirements and conditions have been met, including the completion of all required paperwork.

The roster of candidates listed in the Commencement Program is a compilation of those eligible to participate. It should not be construed either as a complete or official list of those who will receive a university degree. Due to printing deadlines, names of some degree candidates may not appear. Honors distinctions are based on the candidate's academic record the semester prior to Commencement.

Diplomas will be mailed approximately ten weeks after Commencement to students who have completed degree requirements, an Application for Graduation, and have no University encumbrances.

CONTINUOUS ENROLLMENT

Students who withdraw from all courses after the third week of the semester are considered to have been enrolled for the semester. Degree-seeking students who drop out for one semester, excluding summer sessions, may enroll in the subsequent semester provided they have not attended another college or university since last attending NSU, have not been suspended from NSU, and otherwise are eligible to return. A student who does not attend Norfolk State University for two or more consecutive semesters, excluding summer sessions, must submit an application for readmission. Readmission applications are available in the Office of the Registrar.

COURSE SUBSTITUTIONS

Course substitutions allow a department to use an NSU course or transfer course (C or better grade) to meet a degree requirement when the required course is not being taught within a particular semester or is no longer offered. A request for a course substitution requires approval by the student's advisor, the department head, and the school dean.

Substitution is not to be confused with waiver. Substitution is an option to meet a requirement, while waiver implies exemption. Waivers for requirements in the major are not granted.

Use of Military Science and Naval Science courses as substitutions for degree requirements requires approval of the advisor, the department head, and the school dean and is limited to:

General Education Core - 6 hours

MLS and NCS 111, 112, 211, 212 for PED 100, HED 100 HIS 380 for HIS 100, 101, 102, 103

Free Electives - 6 hours

Upper-level (300, 400) MLS and NSC courses may be used provided the student is enrolled in the appropriate Military Science or Naval Science Program when substitutions are requested.

DUAL DEGREE POLICY

Dual degrees are awarded to students who concurrently fulfill the requirements for two majors and two degrees. A dual degree is earned when the student completes University and departmental requirements in both majors. Students must complete the minimum requirement for institutional credits and meet the graduation requirement for grade point average (G.P.A.).

A minimum of 25% (30 additional semester credit hours) above the minimum hour requirement of the major requiring the most credits is required for a

student to obtain a dual degree. All coursework for the second degree must be predefined and pre-approved by the department housing the second degree. The student will receive two diplomas and both degrees will appear on the student's permanent academic record.

GRADE APPEAL

The instructor has the responsibility for evaluating coursework and determining grades; however, the student has the right to appeal a grade believed to be in error. The appeal process may involve the following steps and may be resolved at any level:

- The student confers with the instructor involved.
- The student and instructor (preferably together) confer with the chairperson of the department offering the course.
- The student and instructor (preferably together) confer with the dean of the school in which the department is housed.

When the above steps do not resolve the issue, the student may initiate a formal written appeal through the Faculty/Student Grievance Committee to the Provost for its review and recommendation. Appeals should not be taken lightly by either the student or the instructor.

The student is responsible for verifying the accuracy of his or her academic records. Grade appeals should be made immediately after the grade in question is received. No appeals will be considered after one year has elapsed or after graduation, whichever is earlier.

OFF-CAMPUS CLASS TRIPS

When a class is taken off campus, signatures of approval should be obtained from the department head and school dean prior to the trip. Written requests must include the destination, date and time of departure/return, mode of transportation, itinerary, a list indicating the student travelers, and the names of chaperones. A copy of approved requests should be forwarded to the Office of the Provost and the Office of Student Services/Judicial Affairs. Students should be directed to the Office of Judicial Affairs/Student Services to obtain official class excuses.

The faculty/staff member in charge of any off-campus trip to be taken by an authorized University group (such as athletic teams, student organizations, musical or drama groups, etc.) should submit the same information in the preceding paragraph to the Office of the Vice President for Student Affairs prior to the trip. A copy of the same should also be forwarded to the Office of Student Services/Judicial Affairs so that students may obtain official class excuses.

SECOND BACCALAUREATE DEGREE

A student desiring to earn a second baccalaureate degree must complete application procedures with the Office of Admissions as with the first degree. Applicable credits from the previous degree may be applied (treated as transfer work) to the second degree; however, a minimum of 30 new resident credits will be required for the second degree. The usual departmental and University requirements must be met as with the first matriculation.

STUDENT LEARNING OUTCOMES ASSESSMENT REQUIREMENT

As part of Norfolk State University's mission and commitment to provide the environment and resources needed for success, students may be required to participate in a number of assessment activities at various points throughout their matriculation. The activities may include entry or exit examinations, surveys, focus groups and exit interviews, portfolio reviews, and evaluations of competence or mastery of specific skills. The assessment activities are designed to measure student outcomes in general education and in the major prior to graduation. The primary purpose of the assessment activities is to determine the extent to which the University's academic programs and services maintain a high level of quality and meet the needs of the students. Group results will be reported. Individual student results are not reported and will remain confidential. Information from the assessment activities will be used by faculty and administrators to improve programs and services.

WITHDRAWAL FROM THE UNIVERSITY

University policy requires a student to complete an Application for Withdrawal when enrollment is terminated before the end of a semester or summer session. The Application for Withdrawal may be obtained from the department head/advisor and must be submitted to the Office of the Registrar by the last day of class. The student should discuss the matter with the department head/advisor before processing the Application for Withdrawal. The last day to officially withdraw from all classes is on the last published date for all classes.

If the student is ill or otherwise incapacitated and cannot complete the withdrawal process, the student must contact, or have someone else contact, the Office of the Vice President for Student Affairs immediately.

A student who fails to adhere to the published deadlines for withdrawing from all classes or withdrawing from the University will be charged the appropriate tuition and will receive a failing grade (F).

NOTE: Under no circumstance does non-attendance constitute an official withdrawal from the university.

PRO-RATA REFUND POLICY

Tuition and room and board charges are adjusted on a pro-rata basis for students who withdraw during the first nine weeks of the fall and spring semesters and the first three weeks of the summer session. Tuition charges are adjusted based upon the following schedule:

WITHDRAWAL DATE	UNIVERSITY RETAINS
Before Classes	\$50 Administrative Fee
FirstWeek	10% + \$50
SecondWeek	20% + \$50
ThirdWeek	30% + \$50
FourthWeek	40% + \$50
FifthWeek	50% + \$50
SixthWeek	60% + \$50
SeventhWeek	70% + \$50
EightWeek	80% + \$50
NinthWeek	90% + \$50
TenthWeek	No Refund

Funds must be returned to the federal financial aid program if less than 60 percent of the semester is completed. The required order for allocating refunds and repayments is:.

Federal Direct Student Loan Program (FDSLP)

Federal Perkins Loan Program

Federal Pell Grant Program

Federal SEOG Program

Other Title IV Programs

Withdrawal from the University may result in a reduction or cancellation of financial aid awards. Students receiving financial aid should contact the Financial Aid Office for complete information about their individual situations.

REGISTRATION PROCEDURES

The Registrar is the official custodian of academic records and is responsible for the process of enrolling students in courses, providing registration statements (which include tuition charges and related fees), and collecting and maintaining academic information in accordance with University policy. The Registrar certifies students for graduation and is the keeper of the University seal. The Registrar is responsible for calculating and recording student grades and notifying students of their enrollment status, including academic probation and suspension. For more information please contact the Office of the Registrar at (757) 823-8229.

The first step in the registration process is admission to the University. In order to attend classes at Norfolk State University, all students must complete the registration process. A registration information booklet outlining registration policies and procedures, final examination schedules, and other information pertaining to registration for a given semester or summer school is available in the Office of the Registrar or online at www.nsu.edu/registrar. Class schedules are available online under Search for Classes using <http://www.nsu.edu/mynsu/>. Registration dates are included in the University calendar shown in this catalog. Students are responsible for complying with all of the policies and procedures governing registration, changing of class schedules, paying tuition, and fulfilling other requirements outlined in this catalog, the current registration information booklet, and other official publications.

First-time freshmen and transfer students must obtain the signature of the department head or the academic advisor on the Course Registration Worksheet, indicating approval of the student's schedule of courses. Returning students must consult with their advisor and agree upon a schedule of courses in order for the advisor to release the WEBNO hold for online registration using MyNSU (<http://www.nsu.edu/mynsu/>).

EARLY REGISTRATION

Currently enrolled students are encouraged to register in advance (pre-register) for the following spring or fall semester. The procedures for pre-registration for an ensuing semester are published in the Registration Information and Schedule of Classes booklet available in the Office of the Registrar. The dates and times for registration are included in the Academic Calendar.

LATE REGISTRATION

A late registration fee of \$75 will be assessed against any student who fails to complete registration within the specified period for regular registration. The last dates for late registration, adding classes, and changing class schedules are listed in the Academic Calendar.

Additional information about academic policies and procedures related to registration, matriculation, withdrawal, degree completion and graduation is provided in the Academic Policies section of the catalog.

CHANGES IN CLASS SCHEDULE (ADD/DROP)

Changes in class schedules (Add/Drop) may be made only with the written consent of the course instructor and the advisor or department head. Students who have not declared a major may contact the Student Success Center (SSC) for advising and schedule changes. Non-matriculating students should contact the Dean's Office in the College of Liberal Arts to process schedule changes. A student must complete the Administrative Change form, obtain the appropriate signatures, and report to the offices of the Registrar and Cashier to complete the transactions. No changes in class schedules may be made after the dates stipulated in the academic calendar for making changes without incurring the penalty of failure, "F," for the course(s) involved.

AUDITING COURSES

Students who desire to attend classes but do not plan to receive credit may audit courses. A grade of AU is recorded for these students, and they must have the permission of the instructor. An audited course is counted as part of a student's total class load, and he or she must pay tuition the same as if receiving credit. To audit a course the student must complete the Course Registration Worksheet and place an "AU" in the "TUITION HOURS" column of the worksheet. The instructor's signature should be placed in the "Comments" column on the same line as the audited course. The auditing student is expected to attend classes regularly but is not required to submit assignments or take examinations. Changing from audit to credit or from credit to audit is permitted only during the scheduled "Add" period. Audited courses may be dropped during the scheduled "Drop" period.

CHANGE OF NAME AND ADDRESS

It is the obligation of the student to notify the Office of the Registrar of any change in name (legal documentation required) or address.

TRANSCRIPT OF RECORD

A transcript is a history of the student's permanent academic record. Transcripts are issued only upon the written request of the student or his or her authorized agents and should be requested at least 10 business days prior to the date needed.

Students may request transcripts of work completed at the University by completing a Transcript Request Form in person on the second floor of the Student Services Center, or by mailing the request to: Registrar's Office, Suite 212, Student Services Center, 700 Park Avenue, Norfolk, Virginia 23504. The fee for each transcript is \$3.00 and may be paid in person at the Cashier's Office, first floor of Wilson Hall, or mailed with the written request. The check or money order should be made payable to NSU.

Online requests for transcripts may be placed at www.nsu.edu/registrar. The cost for online transcript requests is \$5.25 per copy, and must be paid using a valid credit card. The same processing times apply for online requests.

Transcripts are released only when a student's account is paid in full and the student's loans are current.

RELEASE OF STUDENT INFORMATION

(In accordance with FERPA)

Student records are not available without the student's written consent.

Exceptions: school officials, including teachers within the educational institution or local educational agencies that have a legitimate educational interest.

The following information has been declared "Directory Information" and may be released by the University without prior consent of the student: name, address, date and place of birth, major field of study, participation in official activities, weight and height of athletic team members, dates of attendance, enrollment status, degree, honors and awards received, and previous educational agency or institution attended.

"Directory Information" will not be released for commercial purposes. A student may contact the Office of the Registrar in writing to request that "Directory Information" not be released.

Access to personal records and files is guaranteed to every student and subject only to regulations as to time, place, and supervision. Members of the faculty with administrative assignments may have access for internal educational purposes as well as for routinely necessary administrative and statistical purposes.

Properly identified officials from federal, state, and local governmental agencies may be given the following information: name and address of parent or

Properly identified officials from federal, state, and local government agencies may be given the following information:

- name and address of parent or guardian if student is a minor; and
- any information required under legal compulsion

Unless under legal compulsion, personal access to a student's file should be denied to any person making an inquiry.

Disciplinary proceedings will not be made available to any person or agency unrelated to the University.

Upon graduation or withdrawal from the institution, the records and files of former students shall continue to be subject to the provisions of this code.

RETENTION AND DISPOSITION OF RECORDS

The Office of the Registrar adheres to the following disposal schedule as recommended by the Library of Virginia's Records Retention and Disposition Schedule, General Schedule No. 111, College and University Records (effective March 2009).

ACADEMIC RESOURCES AND SERVICES

DR. PATRICIA LYNCH STITH STUDENT SUCCESS CENTER (SSC)

Nursing & General Education Bldg., Suite 100
(757) 823-8507

ssc@nsu.edu
www.nsu.edu/provost/ssc

MISSION

The Spartan Student Success Center (SSC) supports Norfolk State University's mission of transforming lives and communities by empowering a culturally diverse student population through a comprehensive educational plan that addresses academic engagement, educational commitment, self-efficacy, and campus engagement.

GOAL

To provide a systematic approach designed to improve student achievement, increase retention, and reduce the time to degree completion.

- Foster an open and responsive environment that encourages faculty and students to take an active interest and role in student success.
- Develop in each student the skills, attitudes, and beliefs necessary to foster an understanding of the process of learning to achieve academic, career and life goals.
- Work collaboratively with the campus community to promote student persistence and successful completion of the students' educational goals.
- Assess the effectiveness of the Spartan Success Center and evolve in response to student needs.
- To assist students in becoming more independent, self-confident and efficient learners.

CHILD DEVELOPMENT LABORATORY

James Bowser Building, Room 113-A
(757) 823-8111

The Child Development Laboratory is part of Early Childhood Education program in the School of Education. The laboratory provides training and observation facility for class assignments, research,

student teaching and field work. It provides a readiness curriculum for ages 2.5 to 5 years. Hours of operation are 7:30 a.m. to 5:30 p.m. Monday through Friday. For more information contact (757) 823-8111 or (757) 823-9241.

COMMUNITY AND OUTREACH SERVICES

Brambleton Community Outreach Center
909 Marshall Avenue
Norfolk, VA 23504
(757) 823-8743

The Brambleton Outreach Center (Center) is Norfolk State University's primary connection with its surrounding neighborhoods. The Center is the point of contact for those neighbors seeking information related to community/public service activities conducted by the university. The Center is the hub for all university community and public service activities. The goal of the Center is to provide the place where neighbors seek and the university through its students and faculty provide the services that encourage communication, interaction, trust and a sense of community with each other.

COMPREHENSIVE LANGUAGE LEARNING CENTER

J. Hugo Madison Hall, Room 240
757-823-8891

The Comprehensive Language Learning Center is a state-of-the-art, interactive laboratory providing tutorial, computer assisted, audio, and video services for students and teachers of writing and the foreign languages.

ERNEST M. HODGE CENTER FOR ENTREPRENEURSHIP

McDemmond Center for Applied Research
(757) 823-2953

The Center provides leadership programs and resources that enable NSU to add value to businesses served while immersing students in the entrepreneurial experience. Through multidisciplinary teams, the Center extends knowledge and technical assistance that strengthen and expand the number and quality of minority- and women-owned, growth-oriented, and technology-driven businesses. Please see the School of Business section of catalog for additional information

MATHEMATICS TESTING CENTER

Brown Memorial Hall, Room 318
(757) 823 - 2435

This center contains workstations and audio visual materials to support classroom assignments and activities.

The mission of the Mathematics Testing Center is to:

1. Monitor computer pretests for the MTH 101 Elementary Algebra Lab Component;
2. Evaluate and record results of pretest mastery for MTH 101 faculty;
3. Diagnose deficiencies of students enrolled in MTH 101; and
4. Provide tutorial assistance for all pre-calculus courses.

THE CENTER FOR APPLIED RESEARCH AND PUBLIC POLICY

Brown Memorial Hall, C-142
(757) 823-9575

The Center for Applied Research and Special Projects is a computer-based social science research laboratory. Research and special projects include, but are not limited to, voting behavior studies; urban and neighborhood development studies; transportation studies; health population and policy studies; international development studies, and nonprofit organizations and government agencies restructuring studies. The Center provides opportunities for students as well as faculty to gain expertise. The Center for Applied Research and Special Projects is nationally recognized as one of the most technologically advanced research centers in the country. For more information, please contact Dr. Rudolph Wilson at (757) 823-9575.

PLANETARIUM

Wood Science Building Room 119
(757) 823-8909

The Norfolk State University Planetarium is primarily a sky theater and laboratory, which may serve as a dramatic and fascinating facility for teaching concepts of Earth space science.

The Planetarium provides public shows for the University, the community, and the general public as a community service. Interested community groups are invited to make reservations for a prepared show, or they may request planetarium personnel to create a "tailor-made" program on a topic of special interest.

STARS (SCIENCE AND TECHNOLOGY ACADEMICIANS ON THE ROAD TO SUCCESS) TUTORING CENTER

Robinson Technology Center, Room 108
(757) 823-2891

The STARS Peer Tutoring Program offers free, one-on-one tutoring or group tutoring for students taking courses in biology, chemistry, computer science, engineering, mathematics, nursing, physics, and technology. Tutoring is provided by graduate and undergraduate peer tutors who have been trained in effective tutoring techniques in accordance with College Reading and Learning Association Guidelines.

TEACHER EDUCATION RESOURCE CENTER (TERECE)

Bozeman Education Building, Room 225
(757) 823-8715

The H.H. Bozeman Integrated Media Resource Center is committed to providing high quality service to teacher education candidates. The center increases the capacity of teacher candidates/ interns to meet the requirements of methods courses. The primary goal is to link students with teacher resources. Education materials are available for loan, including assessment instruments, curricula, audio visuals, reference books, computer software, and assistive technology. For more information, please contact Dr. Leon Rouson at (757) 823-2260.

LIST OF DEGREE PROGRAMS

DIVISION	UNDERGRADUATE	MINORS	CERTIFICATION / TEACHER LICENSURE ENDORSEMENTS	GRADUATE
SCHOOL OF BUSINESS	BACHELOR OF SCIENCE } Accountancy } Business } Tourism and Hospitality Management		} Accounting } Going Places/Tourism and Hospitality } Logistics Management	
	BACHELOR OF SCIENCE } Early Childhood Education (Non-Certification Option) } Exercise Science/Physical Education		} Driver Education } Early Childhood/Primary } Elementary Education (PreK-6) } Health and Physical Education } Paraprofessional Education Program } Secondary Education } Special Education	MASTER OF ARTS } Pre-Elementary Education } Special Education } Urban Education MASTER OF ARTS IN TEACHING } Biology } Chemistry } Elementary Education } English } Fine Arts } History } Math } Music } Physics
SCHOOL OF EDUCATION				

DIVISION	UNDERGRADUATE	MINORS	CERTIFICATION / TEACHER LICENSURE ENDORSEMENTS	GRADUATE
COLLEGE OF LIBERAL ARTS	BACHELOR OF ARTS	English		MASTER OF ARTS
	┆ Drama and Theater	Fine Arts		┆ Criminal Justice
	┆ English	French		┆ Media and Communications
COLLEGE OF SCIENCE, ENGINEERING AND TECHNOLOGY	┆ Fine Art and Graphic Design	History		┆ Urban Affairs
	┆ History	Interdisciplinary Studies		┆ Visual Studies
	┆ Political Science	Mass Communications		MASTER OF MUSIC
	┆ Psychology	Political Science		┆ Music
	┆ Sociology	Psychology		MASTER OF SCIENCE
	BACHELOR OF MUSIC	Sociology		┆ CyberPsychology
	┆ Music	Spanish		
	BACHELOR OF SCIENCE			DOCTOR OF PHILOSOPHY
	┆ Interdisciplinary Studies			┆ Clinical Psychology
	┆ Mass Communications			
	ASSOCIATE OF SCIENCE			MASTER OF SCIENCE
	┆ Architectural Drafting	Astronomy	┆ Biology	┆ Computer Science
COLLEGE OF SCIENCE, ENGINEERING AND TECHNOLOGY	BACHELOR OF SCIENCE	Biology	┆ Chemistry	┆ Cybersecurity
	┆ Biology	Computer Science	┆ Health Services Management	┆ Electronics Engineering
	┆ Building Construction Technology	Mathematics	┆ Mathematics	┆ Materials Science
	┆ Chemistry	Physics	┆ Physics	DOCTOR OF PHILOSOPHY
	┆ Computer Science			┆ Materials Science and Engineering
	┆ Computer Technology			MASTER in
	┆ Electrical and Electronics Engineering			┆ Healthcare Administration
	┆ Electronic Technology			
	┆ Health Services Management			
	┆ Information Technology			
	┆ Mathematics			
	┆ Medical Technology			
	┆ Nursing			
	┆ Optical Engineering			
	┆ Physics			

List of Degree Programs

DIVISION	UNDERGRADUATE	MINORS	CERTIFICATION / TEACHER LICENSURE ENDORSEMENTS	GRADUATE
SCHOOL OF SOCIAL WORK	BACHELOR OF SOCIAL WORK └ Social Work			MASTER OF SOCIAL WORK └ Social Work DOCTOR OF PHILOSOPHY └ Social Work

SCHOOL OF BUSINESS

Mr. Glenn Carrington, Dean
Dr. Moncef Belhadjali, Associate Dean
Dr. Jim Chen, Associate Dean
(757) 823-8920

NORFOLK STATE UNIVERSITY MISSION STATEMENT

Norfolk State University, a comprehensive urban public institution, is committed to transforming student's lives through exemplary teaching, research and service. Offering a supportive academic and culturally diverse environment for all, the University empowers its students to turn their aspirations into reality and achieve their full potential as well rounded, resourceful citizens and leaders for the 21st century.

THE SCHOOL OF BUSINESS MISSION STATEMENT

"The mission of the School of Business at Norfolk State University is to produce successful, ethical, competitive and innovative leaders for the global environment through high-quality instruction, research and service."

ACCREDITATION

Norfolk State University's School of Business is accredited by the Association to Advance Collegiate Schools of Business (AACSB-International). AACSB accreditation represents the highest standard of achievement for business schools worldwide and is the hallmark of excellence in business education.

PROGRAMS OF STUDY

The Bachelor of Science (B.S.) degree is offered in Accountancy and in Business. Within the Business major students may concentrate in Business Intelligence and Data Analytics, Entrepreneurship, Finance, Management, Management Information Systems, and Marketing. The School also administers online the B.S. degree in Tourism and Hospitality Management.

BUSINESS CORE

Students who pursue a B.S. degree in either Accountancy or Business must complete the following core courses that are listed below. These courses are intended to give the student a fundamental understanding of the essential areas of business management. Students should complete all lower-level (100 and 200-level series) Core courses prior to enrolling in courses numbered 300 or higher.

ACC 201	Principles of Financial Accounting	3
ACC 202	Principles of Managerial Accounting	3
BUS 175	Introduction to Business and Entrepreneurship	3
BUS 281	Legal Environment for Business	3
BUS 330	Business Communications	3
BUS 270	Business Statistics	3
BUS 376	Statistics and Quantitative Methods	3
ECN 211 3	Principles of Microeconomics	3
ECN 212	Principles of Macroeconomics	3
BUS 387	Introduction to Entrepreneurship	3
BUS 360	Corporate Finance	3
BUS 365	Organizational Behavior & Theory	3
BUS 476	Operations Management	3
BUS 478	Strategic Management	3
BUS 375	Management Information Systems and E-Commerce	3
BUS 366	Principles of Marketing	3
TOTAL DEGREE HOURS REQUIRED		48

ADMISSION REQUIREMENTS

The School of Business uses the same standards for admission as the University. Non-matriculating students may not take courses in the School of Business without the consent of the Department Chair and Dean.

Students transferring courses to NSU may be granted advanced standing. (See Transfer Credit, below.)

CURRICULUM REGULATIONS

All freshman and sophomore-level (lower division) courses in the curriculum must be completed before enrolling in junior and senior-level (upper division) courses. A letter grade of "C" or higher must be earned in all courses offered in the School of Business. In addition, a letter grade of "C" or higher must be earned in the non-business courses listed below.

COURSE	COURSE TITLE
ENG 101	College English I
ENG 102	College English II
MTH 131	Pre-calculus for Non-Science Majors
MTH 132	Calculus for Non-Science Majors
ENG 285	Public Speaking
SEM 101, 102 & 201	Spartan Seminar Series:101, 102 & 201

TRANSFER CREDIT

Credits transferred to Norfolk State University from other AACSB-International accredited colleges or universities may be accepted as substitutes for equivalent courses in a School of Business curriculum, without restriction. Credits transferred to NSU from colleges or universities not accredited by AACSB may be accepted as substitutes only for those courses determined to be equivalent to lower division courses. Credits transferred to NSU from the Virginia Community College System (VCCS) will be accepted as substitutes for equivalent courses, according to the Norfolk State University/Virginia Community College System Transfer Guide. Exceptions to this policy could result from testing or other validation procedures established by the Dean of the School of Business. At least 50 percent of business course credits must be earned at NSU.

ATTENDANCE POLICY

All students must attend class in accordance with the NSU attendance policy stated in the Student Handbook. Failure to do so may result in dismissal from class or a grade of "F."

COURSE LOAD

In order to ensure that students have the best chance of successfully pursuing their studies, the maximum permissible course load for all majors will depend on, among other considerations, their current cumulative grade point average. The following course load limitations are suggested:

CUMULATIVE G.P.A.	MAXIMUM HOURS
Below 2.000	12
2.000 - 2.490	15
2.5000 or above	18

SCHOLARSHIPS

The School of Business awards a limited number of scholarships each year to students who show high promise and/or demonstrate a need for financial assistance. Special scholarship programs in the School of Business include Bank of America, Disney, El-Fayoumy, SM Perkins, Thelma M. Hayes Endowment, Wal-Mart Leadership, Houghton Scholarship fund, and the Holley/Osborne Endowment. Students interested in applying for scholarships may contact the Associate Dean of the School of Business.

STUDENT ORGANIZATIONS

Various student organizations exist in the School of Business and are designed (1) to develop the competent and visionary business leaders of tomorrow; (2) to create student interest in various career opportunities in business and government; and (3) to encourage improvement in scholarship and community/professional service. Student organizations include the following:

- Pi Sigma Epsilon (Marketing)
- Beta Gamma Sigma (BGS) Honor Society
- Finance and Banking Club
- Association for Information Technology Professionals (AITP)
- National Association of Black Accountants (NABA)
- National Coalition of Black Meeting Planners
- Society for the Advancement of Management (SAM)
- Students in Free Enterprise (SIFE)

SCHOOL OF BUSINESS ADVISORY COUNCIL

The School of Business Advisory Council operates as an external group to review policies, procedures, and programs offered by the School of Business. The Council also advises the Dean on strategic issues and promotes the establishment of business and community partnerships.

ERNEST M. HODGE CENTER FOR ENTREPRENEURSHIP

Dr. Sally Sledge, Director
(757) 823-2953

The Ernest M. Hodge Center for Entrepreneurship provides leadership programs and resources that enable NSU to serve local businesses while immersing students in the entrepreneurial experience. Through multidisciplinary student/faculty teams, the Center offers knowledge and technical assistance to businesses in the Hampton Roads region. The goal is to strengthen and expand the number and quality of minority- and women-owned, growth-oriented, and technology-driven businesses in the area.

Most prominently, the Hodge Center's Entrepreneur-in-Residence Program (EIRP) is a first for the nation's Historically Black Colleges and Universities. The EIRP enables students to serve as consultants to prospective entrepreneurs as well as to actual for- and not-for-profit businesses seeking growth opportunities in Hampton Roads. In the case of the former, students assist hopeful entrepreneurs as they perform market research, develop business plans, investigate sources of financing, and launch their new ventures. In the latter instance, guided by clients' senior executives and NSU faculty, EIRP students develop solutions to today's complex business problems and present their recommendations to management. All majors are welcome.

Minor in Accountancy

A business or a non-business student is required to take five courses (15 hours) to earn a minor in Accountancy. This includes three required courses (9 hours) and two elective courses (6 hours) as follows:

REQUIRED COURSES

COURSE	COURSE TITLE	HOURS
ACC 201	Principles of Financial Accounting	3
ACC 202	Principles of Managerial Accounting	3
ACC 301	Intermediate Accounting I	3

ELECTIVE COURSES (CHOOSE TWO)

COURSE	COURSE TITLE	HOURS
ACC 302	Intermediate Accounting II	3
ACC 315	Federal Income Tax I	3
ACC 330	Accounting Systems	3
ACC 413	Cost Accounting	3
ACC 414	Auditing	3

TOTAL DEGREE HOURS REQUIRED	15
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Minor in Business

A non-business student is required to take six courses (18 hours) to earn a minor in Business. This will include five required courses (15 hours) and one elective course (3 hours) as follows:

REQUIRED COURSES

COURSE	COURSE TITLE	HOURS
BUS 175	Introduction to Business and Entrepreneurship	3
ACC 201	Principles of Financial Accounting	3
BUS 365	Organizational Behavior and Theory	3
BUS 366	Principles of Marketing	3
BUS 375	Management Information Systems and E-Commerce	3

ELECTIVE COURSES (CHOOSE ONE)

	COURSE TITLE	HOURS
BUS 387	Introduction to Entrepreneurship	3
BUS 360	Corporate Finance	3
BUS 370	Total Quality Management	3

TOTAL DEGREE HOURS REQUIRED	18
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B.S. in Accountancy

CURRICULUM

FIRST YEAR

COURSE	COURSE TITLE	HOURS
SEM 101/102	Spartan Seminars 101 and 102	2
BUS 175	Introduction to Business and Entrepreneurship	3
BIO 100	Biological Sciences	3
SCI 101	Introduction to Physical Science	3
XXX XXX	Science Lab Elective (See Note A)	1
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
BUS 284	Advanced Micro Computing	3
MTH 131	Pre-calculus for Non-Science Majors	3
MTH 132	Calculus for Non-Science Majors	3
PED 100	Fitness for Life or PED 101/102 or Modified PED	1
TOTAL HOURS REQUIRED		30

SECOND YEAR

COURSE	COURSE TITLE	HOURS
ACC 201	Principles of Financial Accounting	3
ACC 202	Principles of Managerial Accounting	3
BUS 281	Legal Environment for Business	3
BUS 270	Business Statistics	3
ECN 211	Principles of Microeconomics	3
ECN 212	Principles of Macroeconomics	3
ENG 210	Practical English Grammar	3
ENG 285	Public Speaking	3
XXX XXX	Humanities (See Note B)	3
PSY 210	Introduction to Psychology	3
SEM 201	Spartan Seminar 201	1
TOTAL HOURS REQUIRED		31

THIRD YEAR

COURSE	COURSE TITLE	HOURS
ACC 301	Intermediate Accounting I	3
ACC 302	Intermediate Accounting II	3
ACC 315	Federal Income Tax I	3
ACC 413	Cost Accounting	3
BUS 330	Business Communications	3
BUS 376	Statistics and Quantitative Methods	3
BUS 387	Introduction to Entrepreneurship	3
BUS 360	Corporate Finance	3
BUS 365	Organizational Behavior and Theory	3
BUS 366	Principles of Marketing	3
TOTAL HOURS REQUIRED		30

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
ACC 330	Accounting Systems	3
ACC 412	Advanced Accounting	3
ACC 414	Auditing	3
ACC 418	Government & Not-for-Profit Accounting	3
BUS 476	Operations Management	3
BUS 478	Strategic Management	3
BUS 375	Management Information Systems and E-Commerce	3
SOC 325	Society, Business, and Internationalism	3
XXX XXX	Global/Cultural and Language Elective (See Note B)	3
XXX XXX	Business Elective (See Note B)	3
TOTAL HOURS REQUIRED		30

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Business Core	48
Business Electives	6
Major Requirements	21
Other Requirements	6
TOTAL DEGREE HOURS REQUIRED	121

CERTIFICATIONS IN ACCOUNTING

Many graduates want to obtain professional certification. The most popular certification is that of the Certified Public Accountant (CPA). As in most States, students seeking CPA licensure in Virginia have to meet a 150 credit- hour requirement. A School of Business student has the option to pursue dual degrees in accounting and business (with a concentration in information management or finance). The option has a 30 semester-hour curriculum for the 5th year. The student would receive two diplomas, and both degrees will appear on the student's permanent academic record. Please see a faculty advisor or the department head for more information.

In addition to the CPA exam, graduates of the School of Business programs may also take the Certified Management Accountant (CMA) exam, Certified Internal Auditor (CIA) exam, Certified Information Systems Auditor (CISA) exam and others. Students interested in taking one of these exams are encouraged to talk to an advisor during their junior year to determine the necessary course requirements.

B.S. in Business -- Business Intelligence & Data Analytics

CURRICULUM

FIRST YEAR

COURSE	COURSE TITLE	HOURS
SEM 101/102	Spartan Seminars 101 and 102	2
BUS 175	Introduction to Business & Entrepreneurship	3
BIO 100	Biological Sciences	3
SCI 101	Introduction to Physical Science	3
XXX XXX	Science Elective (See Note A)	1
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal & Community	2
BUS 284	Health Advanced Micro	3
MTH 131	Pre-cal culus for Non-Science Majors	3
MTH 132	Calculus for Non-Science Majors	3
PED 100	Fitness for Life or PED 101/102 or Modified PED	1
TOTAL HOURS REQUIRED		30

THIRD YEAR

COURSE	COURSE TITLE	HOURS
BUS 330	Business Communications	3
BUS 376	Statistics and Quantitative Methods	3
BUS 360	Corporate Finance	3
BUS 387	Introduction to Entrepreneurship	3
BUS 365	Organizational Behavior & Theory	3
BUS 375	Management Information Systems and E-Commerce	3
BUS 390	Business Database Management	3
BUS 366	Principles of Marketing	3
BUS 391	Intro. to Data Analytics & Big Data	3
BUS 396	Intro to Blockchain: Foundations & Business Use Cases	3
TOTAL HOURS REQUIRED		30

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
ACC 201	Principles of Financial Accounting	3
ACC 202	Principles of Managerial Accounting	3
BUS 281	Legal Environment for Business	3
BUS 270	Business Statistics	3
ECN 211	Principles of Microeconomics	3
ECN 212	Principles of Macroeconomics	3
ENG 210	Practical English Grammar	3
PSY 210	Introduction to Psychology	3
ENG 285	Public Speaking	3
XXX XXX	Humanities (See Note B)	3
TOTAL HOURS REQUIRED		31

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
SOC 325	Society, Business & Internationalism	3
BUS 431	Information Systems Analysis and Design	3
BUS 491	Data Analytics and Visualization	3
BUS 492	Business Intelligence	3
BUS 476	Operations Management	3
BUS 478	Strategic Management	3
XXX XXX	Business Electives (See Note D)	9
XXX XXX	Global/Cultural and Language Elective (See Note B)	3
TOTAL HOURS REQUIRED		30

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Business Core	48
Business Electives	12
Major Requirements	15
Other Requirements	6
TOTAL DEGREE HOURS REQUIRED	121

B.S. in Business -- Entrepreneurship

CURRICULUM

FIRST YEAR

COURSE	COURSE TITLE	HOURS
SEM 101/102	Spartan Seminars 101 and 102	2
BUS 175	Introduction to Business & Entrepreneurship	3
BIO 100	Biological Sciences	3
SCI 101	Introduction to Physical Science	3
XXX XXX	Science Elective (See Note A)	1
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal & Community Health	2
BUS 284	Advanced MicroComputing	3
MTH 131	Pre-calculus for Non-Science Majors	3
MTH 132	Calculus for Non-Science Majors	3
PED 100	Fitness for Life or PED 101/102 or Modified PED	1
TOTAL HOURS REQUIRED		30

THIRD YEAR

COURSE	COURSE TITLE	HOURS
BUS 330	Business Communications	3
BUS 376	Statistics and Quantitative Methods	3
BUS 386	New Venture Finance	3
BUS 387	Introduction to Entrepreneurship	3
BUS 360	Corporate Finance	3
BUS 375	Management Information Systems and E-Commerce	3
BUS 365	Organizational Behavior & Theory	3
BUS 366	Principles of Marketing	3
BUS 391	Intro. to Data Analytics & Big Data	3
XXX XXX	Global/Cultural & Language Elective (See Note B)	3
TOTAL HOURS REQUIRED		30

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
ACC 201	Principles of Financial Accounting	3
ACC 202	Principles of Managerial Accounting	3
BUS 281	Legal Environment for Business	3
BUS 270	Business Statistics	3
ECN 211	Principles of Microeconomics	3
ECN 212	Principles of Macroeconomics	3
ENG 210	Practical English Grammar	3
PSY 210	Introduction to Psychology	3
ENG 285	Public Speaking	3
XXX XXX	Humanities (See Note B)	3
TOTAL HOURS REQUIRED		31

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
BUS 417	International Business	3
BUS 465	Small Business Management	3
BUS 469	Entrepreneurship-in-Residence	3
BUS 477	Franchising	3
BUS 476	Operations Management	3
BUS 478	Strategic Management	3
XXX XXX	Business Electives (See Note D)	9
SCO 325	Society, Business & Internationalism	3
TOTAL HOURS REQUIRED		30

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Business Core	48
Business Electives	12
Major Requirements	15
Other Requirements	6
TOTAL DEGREE HOURS REQUIRED	121

B. S. in Business -- Finance

CURRICULUM

FIRST YEAR

COURSE	COURSE TITLE	HOURS
SEM 101/102	Spartan Seminars 101 and 102	2
BUS 175	Introduction to Business and Entrepreneurship	3
BIO 100	Biological Sciences	3
SCI 101	Introduction to Physical Science	3
XXX XXX	Science Lab Elective (See Note A)	1
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
BUS 284	Advanced Micro Computing	3
MTH 131	Pre-calculus for Non-Science Majors	3
MTH 132	Calculus for Non-Science Majors	3
PED 100	Fitness for Life or PED 101/102 or Modified PED	1
TOTAL HOURS REQUIRED		30

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
ACC 201	Principles of Financial Accounting	3
ACC 202	Principles of Managerial Accounting	3
BUS 281	Legal Environment for Business	3
BUS 270	Business Statistics	3
ECN 211	Principles of Microeconomics	3
ECN 212	Principles of Macroeconomics	3
LOG 210	Logic: Critical Thinking	3
ENG 285	Public Speaking	3
PSY 210	Introduction to Psychology	3
XXX XXX	Humanities (See Note B)	3
TOTAL HOURS REQUIRED		30

THIRD YEAR

COURSE	COURSE TITLE	HOURS
BUS 330	Business Communications	3
BUS 376	Statistics and Quantitative Methods	3
BUS 387	Introduction to Entrepreneurship	3
BUS 360	Corporate Finance	3
BUS 362	Investments	3
BUS 365	Organizational Behavior and Theory	3
BUS 366	Principles of Marketing	3
BUS 375	Management Information Systems & E-Commerce	3
BUS 391	Intro to Data analytics & Big Data	3
XXX XXX	Global/Cult. & Language Elective (See Note B)	3
TOTAL HOURS REQUIRED		30

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
BUS 363	Financial Institutions	3
BUS 488	International Finance	3
BUS 474	Intermediate Financial Management	3
BUS 499	Cases in Financial Management	3
BUS 476	Operations Management	3
BUS 478	Strategic Management Business	3
XXX XXX	Electives (See Note E)	9
XXX XXX	Global/Cultural and Language Elective (See Note B)	3
TOTAL HOURS REQUIRED		30

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Business Core	48
Business Electives	12
Major Requirements	15
Other Requirements	6
TOTAL DEGREE HOURS REQUIRED	121

B.S. in Business -- Management

CURRICULUM

FIRST YEAR

COURSE	COURSE TITLE	HOURS
SEM 101/102	Spartan Seminars 101 and 102	2
BUS 175	Introduction to Business and Entrepreneurship	3
BIO 100	Biological Sciences	3
SCI 101	Introduction to Physical Science	3
XXX XXX	Science Lab Elective (See Note A)	1
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
BUS 284	Advanced Micro Computing	3
MTH 131	Pre-calculus for Non-Science Majors	3
MTH 132	Calculus for Non-Science Majors	3
PED 100	Fitness for Life or PED 101/102 or Modified PED	1
TOTAL HOURS REQUIRED		30

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
ACC 201	Principles of Financial Accounting	3
ACC 202	Principles of Managerial Accounting	3
BUS 281	Legal Environment for Business	3
BUS 270	Business Statistics	3
ECN 211	Principles of Microeconomics	3
ECN 212	Principles of Macroeconomics	3
ENG 210	Practical English Grammar	3
PSY 210	Introduction to Psychology	3
ENG 285	Public Speaking	3
XXX XXX	Humanities (See Note B)	3
TOTAL HOURS REQUIRED		31

THIRD YEAR

COURSE	COURSE TITLE	HOURS
BUS 330	Business Communications	3
BUS 376	Statistics and Quantitative Methods	3
BUS 387	Introduction to Entrepreneurship	3
BUS 360	Corporate Finance	3
BUS 350	Ethics in Management	3
BUS 365	Organizational Behavior and Theory	3
BUS 368	Human Resource Management	3
BUS 375	Management Information Systems & E-Commerce	3
BUS 366	Principles of Marketing	3
BUS 391	Intro to Data Analytics & Big Data	3
TOTAL HOURS REQUIRED		30

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
BUS 410	Leadership and Diversity in Management	3
BUS 415	International Management	3
BUS 420	Organizational Change and Development	3
BUS 476	Operations Management	3
BUS 478	Strategic Management	3
SOC 325	Society, Business, and Internationalism	3
XXX XXX	Global/Cultural and Language Elective (See Note B)	3
XXX XXX	Business Electives (See Note F)	9
TOTAL HOURS REQUIRED		30

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Business Core	48
Business Electives	12
Major Requirements	15
Other Requirements	6
TOTAL DEGREE HOURS REQUIRED	121

B.S. in Business -- Management Information Systems

CURRICULUM

FIRST YEAR

COURSE	COURSE TITLE	HOURS
SEM 101/102	Spartan Seminars 101 and 102	2
BUS 175	Introduction to Business and Entrepreneurship	3
BIO 100	Biological Sciences	3
SCI 101	Introduction to Physical Science	3
XXX XXX	Science Lab Elective (See Note A)	1
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
BUS 284	Advanced Micro Computing	3
MTH 131	Pre-calculus for Non-Science Majors	3
MTH 132	Calculus for Non-Science Majors	3
PED 100	Fitness for Life or PED 101/102 or Modified PED	1
TOTAL HOURS REQUIRED		30

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
ACC 201	Principles of Financial Accounting	3
ACC 202	Principles of Managerial Accounting	3
BUS 281	Legal Environment for Business	3
BUS 270	Business Statistics	3
ECN 211	Principles of Microeconomics	3
ECN 212	Principles of Macroeconomics	3
ENG 210	Practical English Grammar	3
ENG 285	Public Speaking	3
PSY 210	Introduction to Psychology	3
XXX XXX	Humanities (See Note B)	3
TOTAL HOURS REQUIRED		31

THIRD YEAR

COURSE	COURSE TITLE	HOURS
BUS 330	Business Communications	3
BUS 376	Statistics and Quantitative Methods	3
BUS 387	Introduction to Entrepreneurship	3
BUS 360	Corporate Finance	3
BUS 375	Management Information Systems and E-Commerce	3
BUS 390	Business Database Management	3
BUS 365	Organizational Behavior & Theory	3
BUS 366	Principles of Marketing	3
SOC 325	Society, Business, and Internationalism	3
BUS 391	Intro to Data Analytics & Big Data	3
TOTAL HOURS REQUIRED		30

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
BUS 431	Information Systems Analysis and Design	3
BUS 421	Web-Based Application Development for E-Business	3
BUS 419	Networking	3
BUS 423	Decision Support Systems and Data Mining	3
BUS 476	Operations Management	3
BUS 478	Strategic Management	3
XXX XXX	Business Electives (See Note G)	9
XXX XXX	Global/Cultural and Language Electives (See Note B)	3
TOTAL HOURS REQUIRED		30

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Business Core	60
Major Requirements	15
Other Requirements	6
TOTAL DEGREE HOURS REQUIRED	121

B.S. in Business -- Marketing

CURRICULUM

FIRST YEAR

COURSE	COURSE TITLE	HOURS
SEM 101/102	Spartan Seminars 101 and 102	2
BUS 175	Introduction to Business and Entrepreneurship	3
BIO 100	Biological Sciences	3
SCI 101	Introduction to Physical Science	3
XXX XXX	Science Lab Elective (See Note A)	1
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
BUS 284	Advanced Micro Computing	3
MTH 131	Pre-calculus for Non-Science Majors	3
MTH 132	Calculus for Non-Science Majors	3
PED 100	Fitness for Life or PED 101/102 or Modified PED	1
TOTAL HOURS REQUIRED		30

THIRD YEAR

COURSE	COURSE TITLE	HOURS
BUS 330	Business Communications	3
BUS 376	Statistics and Quantitative Methods	3
BUS 387	Introduction to Entrepreneurship	3
BUS 360	Corporate Finance	3
BUS 375	Management Information Systems and E-Commerce	3
BUS 365	Organizational Behavior & Theory	3
BUS 366	Principles of Marketing	3
BUS 367	Consumer Behavior	3
BUS 391	Intro to Data Analytics & Big Data	3
SOC 325	Society, Business and Internationalism	3
TOTAL HOURS REQUIRED		30

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
ACC 201	Principles of Financial Accounting	3
ACC 202	Principles of Managerial Accounting	3
BUS 281	Legal Environment for Business	3
BUS 270	Business Statistics	3
ECN 211	Principles of Microeconomics	3
ECN 212	Principles of Macroeconomics	3
ENG 210	Practical English Grammar	3
PSY 210	Introduction to Psychology	3
ENG 285	Public Speaking	3
XXX XXX	Humanities (See Note B)	3
TOTAL HOURS REQUIRED		31

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
BUS 476	Operations Management	3
BUS 478	Strategic Management	3
BUS 412	Marketing Management	3
BUS 413	Principles of Retailing	3
BUS 422	International Marketing	3
BUS 497	Marketing Research	3
XXX XXX	Business Electives (See Note H)	9
XXX XXX	Global/Cultural and Language Electives (See Note B)	3
TOTAL HOURS REQUIRED		30

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education	40
Core Business Core	48
Business Electives	12
Major Requirements	15
Other Requirements	6
TOTAL DEGREE HOURS REQUIRED	121

B.S. in Tourism and Hospitality Management – On Campus and Online

CURRICULUM

FIRST YEAR

COURSE	COURSE TITLE	HOUR
SEM 101/102	Spartan Seminars 101 and 102	2
BUS 175	Introduction to Business	3
PED 100	Fundamentals of Fitness for Life	1
HED 100	Personal and Community Health	2
ENG 101	College English I	3
ENG 102	College English II	3
THM 100	Professional Careers in the Hospitality Industry	3
THM 115	Introduction to Hospitality	3
MTH 103	Contemporary Mathematics	3
BIO 100	Biological Sciences	3
SCI 101	Introduction to Physical Science	3
XXX XXX	Science Lab Elective (See Note A)	1
TOTAL HOURS REQUIRED		30

THIRD YEAR

COURSE	COURSE TITLE	HOURS
BUS 281	Legal Environment for Business	3
BUS 330	Business Communications	3
THM 200	Computers in Hospitality	3
THM 250	Hotel Operations Management	3
THM 320	Cases in Hospitality Management	3
BUS 360	Corporate Finance	3
BUS 365	Organization Behavior and Theory	3
BUS 366	Principles of Marketing	3
XXX XXX	Global/Cultural Elective (See Note B)	3
THM XXX	Tourism and Hospitality Elective (See Note C)	3
TOTAL HOURS REQUIRED		30

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
ECN 200	Basic Principles of Economics	3
BUS 284	Advanced Micro Computing	3
FSN 110	Human Nutrition	3
THM 205	Sanitation Principles	3
THM XXX	Tourism & Hospitality Management Elect.(See Note C)	3
ACC 201	Principles of Financial Accounting	3
ACC 202	Principles of Managerial Accounting	3
ENG 285	Public Speaking	3
PSY 210	Introduction to Psychology	3
MTH 105	Intermediate Algebra	3
TOTAL HOURS REQUIRED		31

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
THM 280	Dining Room and Beverage Marketing	3
THM 440	Hospitality Sales and Marketing	3
THM 331	Food, Beverage and Labor Cost Control (MTH 105)	3
THM 300	Purchasing for the Hospitality Industry	3
THM 490	Senior Project	3
THM 462	Hospitality Human Resources Management	3
THM XXX	Tourism & Hospitality Management Elective (See Note C)	3
THM XXX	Tourism & Hospitality Management Elective (See Note C)	3
THM XXX	Tourism & Hospitality Management Elective (See Note C)	3
XXX XXX	Global/Cultural Elective (See Note B)	3
TOTAL HOURS REQUIRED		30

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Business Core	21
Business Electives	3
Major Requirements	54
Other Requirements	3
TOTAL DEGREE HOURS REQUIRED	121

LIST OF NOTES FOR BUSINESS DEGREE PROGRAMS

NOTE A

A student needs to take ONE (1) of the following laboratory courses:

<u>COURSE</u>	<u>COURSE TITLE</u>
BIO 100L	Biological Science Lab
SCI 101L	Introduction to Physical Science Lab

NOTE B

Global/Cultural and Language Electives (6 hours)

A student will choose TWO (2) courses from the list below. At least ONE of these must be a non-language course.

<u>COURSE</u>	<u>COURSE TITLE</u>
ENG 207	Introduction to World Literature
ENG 383	African-American Literature
FIA 201	Basic Art Appreciation
GEO 141	World Regional Geography
GEO 331	Economic Geography
GEO 336	Political Geography
GEO 337	Geography of Africa
HIS 335	African-American History
HIS 336	African-American History
HIS 360	Latin America: Argentina, Brazil, and Chile
HIS 361	Latin America: Readings in Latin American History
HIS 363	Introduction to Modern Near-East
HIS 365	Caribbean and Latin American History
HIS 370	African History and Culture
HIS 371	African History and Culture
HIS 374	East Asian Civilization
HIS 375	Contemporary Economic System of China
HIS 376	Contemporary Economic System of Japan
HIS 446	Latin America: The Colonial Period
HIS 448	Slavery in the Atlantic Basin
HIS 476	Modern China and Modern Japan
HUM 210	Humanities
HUM 211	Humanities
MUS 301	Music Appreciation
MUS 234	African-American Music
POS 315	African American Politics
POS 323	Comparative Government
POS 360	International Relations
POS 442	International Law
POS 461	International Organization
POS 462	The Near (Middle) East in International Affairs
POS 463	Politics of African Nations
POS 467	Introduction to Non-Western Politics
POS 468	A Survey of Contemporary Governments of Asia
PSY 340	Psychology of the African American
REL 200	Major World Religions
SOC 101	Introduction to Social Science
SOC 237	Racial and Ethnic Minorities
SOC 242	Introduction to Anthropology
FRN 111/ 112	Elementary French I and II
GRM 111/ 112	Elementary German I and II
JPN 111/ 112	Elementary Japanese I and II
SPN 111/ 112	Elementary Spanish I and II
SWA 111/ 112	Elementary Swahili I and II

NOTE C

A student in the Accountancy major needs to take TWO (6 credit hours) of the following as Business Elective course.

COURSE	COURSE TITLE
ACC 316	Federal Income Tax II
ACC 420	Selected Topics in Accounting
BUS 300	Internship
BUS 400	Independent Study
BUS 417	International Business
BUS 493	Special Topics in Business (Senior Standing)
BUS 469	Entrepreneurship-in-Residence
BUS 477	Franchising
BUS 362	Investments
BUS 474	Intermediate Financial Management
BUS 420	Organizational Change and Development
BUS 390	Business Database Management
BUS 417	Information Systems Analysis and Design
BUS 367	Consumer Behavior

NOTE D

A student in the Entrepreneurship concentration needs to take FOUR (12 credit hours) of the following as Business Elective courses.

COURSE	COURSE TITLE
ACC 330	Accounting Systems
BUS 300	Internship
BUS 400	Independent Study
BUS 493	Special Topics in Business
BUS 482	Managing Growing Ventures
BUS 484	Creativity, Innovation, and Change Management
BUS 362	Investments
BUS 363	Financial Institutions
BUS 368	Human Resource Management
BUS 420	Organizational Change and Development
BUS 367	Consumer Behavior
BUS 413	Principles of Retailing
BUS 390	Business Database Management

NOTE E

A student in the Finance concentration needs to take FOUR (12 credit hours) of the following as Business Elective courses.

COURSE	COURSE TITLE
ACC 301	Intermediate Accounting I
ACC 315	Federal Income Tax I
ACC 330	Accounting Systems
BUS 300	Internship
BUS 400	Independent Study
BUS 493	Special Topics in Business
BUS 417	International Business
BUS 469	Entrepreneurship-in-Residence
BUS 476	Franchising
BUS 310	Risk Management
BUS 395	Introduction to Personal Financial Planning
BUS 368	Human Resource Management
BUS 390	Business Database Management
BUS 497	Marketing Research

NOTE F

A student in the Management concentration needs to take FOUR (12 credit hours) of the following as Business Elective courses.

COURSE	COURSE TITLE
BUS 300	Internship
BUS 400	Independent Study
BUS 493	Special Topics in Business
BUS 465	Small Business Management
BUS 469	Entrepreneurship-in-Residence
BUS 477	Franchising
BUS 370	Total Quality Management
BUS 435	Compensation
BUS 390	Business Database Management
BUS 421	Web-based Application Development for E-Business
BUS 423	Decision Support and Data Mining
BUS 412	Marketing Management
BUS 413	Principles of Retailing
BUS 497	Marketing Research

NOTE G

A student in Management Information Systems concentration needs to take FOUR (12 credit hours) of the following as Business Elective courses.

COURSE	COURSE TITLE
ACC 301	Intermediate Accounting I
ACC 302	Intermediate Accounting II
ACC 330	Accounting Systems
BUS 300	Internship
BUS 400	Independent Study
BUS 493	Special Topics in Business
BUS 465	Small Business Management
BUS 469	Entrepreneurship-in-Residence
BUS 362	Investments
BUS 368	Human Resources Management
BUS 415	International Management
BUS 374	Business Application in Visual Basic
BUS 385	Web 2 Applications
BUS 367	Consumer Behavior
BUS 497	Marketing Research

NOTE H

A student in Marketing concentration needs to take FOUR (12 credit hours) of the following as Business Elective courses.

COURSE	COURSE TITLE
BUS 300	Internship
BUS 400	Independent Study
BUS 493	Special Topics in Business
BUS 465	Small Business Management
BUS 469	Entrepreneurship-in-Residence
BUS 477	Franchising
BUS 362	Investments
BUS 363	Financial Institutions
BUS 368	Human Resource Management
BUS 410	Leadership and Diversity Management
BUS 390	Business Database Management
BUS 411	Salesmanship
BUS 414	Advertising and Promotion Management
BUS 418	Internet Marketing

NOTE P

A student needs to take TWO of the following courses toward Tourism and Hospitality Management Electives (6 credits).

COURSE	COURSE TITLE
THM 381	Facilities Layout and Design
THM 401	Club and Resort Management
THM 481	Property Management
THM 351	Event Planning and Management
THM 402	Management by Menu
	Catering Management

NOTE Q

A student needs to take ONE of the following courses towards Hospitality Franchising Elective (3 credits).

COURSE	COURSE TITLE
BUS 387	Introduction to Entrepreneurship
BUS 465	Small Business Management
BUS 477	Franchising
THM 441	Restaurant Ownership and Operation
THM 494	Restaurant Franchising

NOTE R

A student needs to take ONE of the following courses towards a work experience elective in the Hospitality Industry (3 credit hours).

COURSE	COURSE TITLE
THM 391	Internship in Hospitality
BUS 300	Internship
BUS 400	Independent Study
THM 414	Advertising and Promotion Management
BUS 413	Principles of Retailing
BUS 412	Marketing Management
BUS 367	Consumer Behavior

NOTE S

A student needs to take ONE of the following courses towards Management Information Systems/International Course Electives (3 credit hours).

COURSE	COURSE TITLE
BUS 417	International Business
BUS 415	International Management
BUS 416	International Marketing
SOC 325	Business, Society and Internationalism
BUS 390	Business Database Management
BUS 375	Management Information Systems and E-Commerce

SCHOOL OF EDUCATION

Dr. Denelle Wallace, Associate Dean
(757) 823-8886

“Preparing competent, compassionate, collaborative, and committed leaders.”

The School of Education is responsible for providing leadership, coordination, and evaluation of all programs offered through its three departments at the University. Its central purpose is to provide pre-service and in-service educational programs to prospective teachers, in-service teachers, administrators, and others engaged in educational activities in schools and other agencies. Corollary purposes are as follows:

- a) To contribute to the knowledge base in the field of educational theory and practice in a multi-cultural, multi-lingual, multi-racial world.
- b) To provide leadership in involving public schools, universities and communities in collaborative educational efforts.
- c) To provide service to other agencies engaged in education in such a manner to promote the realization of equal educational opportunity and equal educational results for all children.

CONCEPTUAL FRAMEWORK

The conceptual framework adopted by Norfolk State University's professional education programs describes the vision and purpose of the School of Education to prepare educators to work in PreK-12 schools. Consistent with the institution's mission, its focus is to prepare competent, compassionate, collaborative, and committed leaders capable of meeting the diverse needs of all learners. Supported by a strong knowledge base, the conceptual framework provides a system for ensuring coherence and a well-articulated professional commitment to knowledge, teaching competence, leadership, and student learning. This is reflected in the curriculum, instruction and clinical experiences provided to develop the knowledge, skills and dispositions that are valued in teachers and other professional school personnel.

ACCREDITATION

All of the teacher education programs sponsored by the School of Education have been approved by the Virginia Department of Education and have been accredited by the National Council for Accreditation of Teacher Education (NCATE), now the Council for the Accreditation of Educator Preparation (CAEP).

Each program is designed to prepare teachers to meet the certification and licensure requirements for the Commonwealth of Virginia as well as requirements for successful study at the graduate school level.

ORGANIZATION OF SCHOOL

The courses of instruction offered by the School of Education are organized into departments which sponsor a wide array of specialization possibilities for students. The departments, centers and laboratories are as follows:

Department of Early Childhood/Elementary
Education and Special Education

Department of Health, Physical Education
and Exercise Science

Department of Secondary Education and
School Leadership

The H.H. Bozeman Integrated Media/
Resource Center

The Office of Clinical Experiences
and Student Services

The Student Volunteer Center

The Praxis I Instructional Center

The NSU Pre-School Academy

Undergraduate programs leading to the Bachelor of Science degree require a minimum of 120 semester hours of credit. These programs lead to the Virginia Collegiate Professional Teacher Certificate or to a specific educational career.

Students seeking teacher certification must earn degrees in academic areas and complete the 18-24 semester hour professional education sequence and a 12-semester hour student teaching experience in the School of Education. The licensure and degree requirements for all programs offered by the School of Education may be revised due to the Virginia Department of Education's regulations, Norfolk State University requirements or regional and national accreditation standards. Department heads and faculty advisors will inform students of the most current information due to changes from any of the agencies which may be different than the information in this catalog.

The Office of Clinical Experiences and Student Services

Dr. Jill Ardley, Director
(757) 823-8715

The Office of Clinical Experiences and Student Services (OCESS) has the responsibility of providing all formal field experiences, observation/participation, directed teaching, and internships for persons wishing to enter the education profession. Observation and participation experiences are provided for freshman, sophomore, and junior-level students. Student teaching and internship experiences are provided for senior-level and graduate students.

ADMISSION TO TEACHER EDUCATION

Admission to Norfolk State University does not imply automatic admission to teacher education programs. Each prospective teacher must apply to the School of Education for admission to the professional education program and must maintain standards prescribed for retention in the program. Students admitted to the pre-professional program are required to apply for admission to the professional education program after completion of the sophomore courses (student must have 60 credit hours, have passed Praxis Core Academic Skills for Educators assessment or its equivalent, and obtained a 3.0 G.P.A.).

CRITERIA FOR ADMISSION TO TEACHER EDUCATION PROFESSIONAL LEVEL

Applicant must have done the following:

1. Completed all prescribed (per curricula) freshman and sophomore courses and earned a grade point average of 3.0 or better in all lower level (freshman and sophomore) courses
2. Earned a grade of "C" or better in all English and math courses, exhibited physical and mental health requisite to the responsibilities and duties of the teaching profession.
3. Evidenced character and dispositions appropriate for the duties and responsibilities for the teaching profession and exhibited a professional interest in teaching.
4. Earned a grade of "C" or better in EDU 201, PED 280 or SPE 210 and submitted proof of completion of the level I field experience in the Tk20 system.
5. Passed the PRAXIS Core Academic Skills for Educators assessment or its equivalent and submitted original copy of score report.

6. Received departmental recommendations to be admitted to teacher education.
7. Submitted a portfolio containing items specified in departmental handbook.
8. Verified no felony or misdemeanor charge or pending for drugs, or against children, and indicate any other law offenses by submitting the results of an universal background check.

APPLICATION PROCEDURES FOR ADMISSION TO TEACHER EDUCATION

1. Application may be made to the School of Education after the second semester of the sophomore year (minimum 60 credit hours).
2. Special forms are provided by the School of Education on the Office of Clinical Experiences and Student Services (OCESS) website:
<https://www.nsu.edu/Academics/Faculty-and-Academic-Divisions/Schools-and-Colleges/School-of-Education/Departments/Center-for-Professional-Development>.
3. Applications will be evaluated as "Approved" or "Rejected." Applicants "Rejected" may reapply the next semester.
4. The student must receive "Approved" admission to teacher education before registering for upper level professional courses.
5. The student must verify no felony or misdemeanor charge or pending for drugs, or against children, and indicate any other law offenses by submitting the results of an universal background check.

RETENTION IN TEACHER EDUCATION

Once admitted to teacher education, the following conditions apply:

1. The teacher candidate must achieve all of his or her major subject departmental objectives and his or her professional objectives in a quality manner.
2. The student must work closely with his or her assigned advisor and maintain at least a 3.0 grade- point average in the major areas and professional education with no final grade less than "C" in either area.

3. The student must maintain good standing with the University and with the School of Education.

The prerequisites for admission to directed teaching are as follows:

1. Admission to teacher education.
2. Satisfactory results from the Praxis Core Academic Skills for Educators assessment or its equivalent.
3. Passing scores on Praxis II Content Area Assessment.
4. Passing scores on the Reading for Virginia Educators (RVE), if applicable, and also a passing score on the Virginia Communication and Literacy Assessment (VCLA).
5. Proof of 10 hours of observation and at least 40 hours of observation/participation field experiences must be submitted with the application to student teach.
6. Submission of all field experience reports in the Tk20™ assessment system.
7. Evidence of above average academic accomplishment in major subject field.
8. Evidence of above average academic accomplishment in professional education, including both general and special courses.
9. An overall average scholastic record of 3.0 or better for all undergraduate work completed.
10. Departmental endorsement (major subject field area advisor and department head). See Student Teaching Application at the Office of Clinical Experiences and Student Services (OCESS).
11. Status as a graduating senior in December or May of the school semester in which directed teaching is to begin as verified by the department head advisor.
12. Evidence of above average achievement in written and oral communication, to include meeting all communications' requirements for earning a baccalaureate degree from the University.
13. Satisfactory disposition and character references by advisor or department head.

14. Completion of required methods of teaching courses within the last two semesters prior to making application for admission to directed teaching.
15. Evidence of training in child abuse/neglect.
16. Submission of a negative current TB test result, an universal background check, and a Search of the Central Registry from Social Services (if applicable).
17. Verification of no pending felony or misdemeanor for drugs, or offenses against children, and any other law offenses.
18. For transfer students, completion of 30 minimal hours of coursework at Norfolk State University, including at least one methodology course, before approval for student teaching (department head).
19. Candidates are required to complete the Emergency First Aid, Cardiopulmonary Resuscitation (CPR), Use of Automated External Defibrillators (AED) training, and Dyslexia and Child Abuse Training. Documentation of training must be submitted to the Office of Clinical Experiences and Student Services (OCESS).

UNIVERSITY-WIDE COUNCIL ON TEACHER EDUCATION (CTE)

The Council on Teacher Education is an advisory committee for implementing the total university emphasis on quality preparation of prospective teachers. Policies are executed by the School of Education. The Council is composed of representatives from all departments at the University that sponsor teacher preparation programs.

H. H. BOZEMAN TEACHER EDUCATION RESOURCE CENTER

The H. H. Bozeman Integrated Media/Resource Center provides supplementary materials and instructional media for the School of Education. The center has resources and equipment appropriate for use from preschool through adult education levels, with emphasis on the training and professional development of the teacher.

DEPARTMENT OF EARLY CHILDHOOD/ELEMENTARY AND SPECIAL EDUCATION

Dr. Kianga Thomas (I)
Department Head
(757) 823 - 8841

The Early Childhood / Elementary and Special Education Department (ESEE) provides undergraduate and graduate programs for students seeking preparation to work with young children in the community, agencies, and preK-12 school settings. The goal of the teacher education programs is to prepare competent, compassionate, collaborative, and committed leaders. The teacher education programs are approved by the Virginia Department of Education and accredited by the National Council for the Accreditation of Teacher Education (NCATE) now the Council for the Accreditation of Educator Preparation (CAEP). The early childhood, elementary, and special education programs provide instruction, field experiences, and clinical practices that develop excellence in teaching and skills to serve diversified populations.

The degree and teacher certification endorsement **programs** in the Department of Early Childhood/Elementary and Special Education are:

- Bachelor of Science in Early Childhood Development – Child Care Non-teaching Option (NCOP)
- Bachelor of Arts in Psychology - Early Childhood/Primary Certification Endorsement PreK-3
- Bachelor of Arts in Psychology – Elementary Education Certification Endorsement PreK-6
- Bachelor of Science in Interdisciplinary Studies Education Certification Endorsement PreK-6 (History Concentration)
- Bachelor of Science in Interdisciplinary Studies Education Certification Endorsement PreK-6 (English Concentration)
- Bachelor of Science in Interdisciplinary Studies Education Certification Endorsement PreK-6 (Mathematics Concentration)
- Bachelor of Arts in Psychology – Special Education General Curriculum K-12 Concentration
- Bachelor of Science in Interdisciplinary Studies – Special Education General Curriculum K-12 Concentration



LICENSURE and BACCALAUREATE DEGREE REQUIREMENTS

Students interested in teaching early childhood, elementary, or special education must pursue a degree in psychology or interdisciplinary studies and earn full licensure to teach in the desired teaching discipline. Students who possess an undergraduate degree and desire to earn a teaching license may apply to Norfolk State University as a non-degree seeking student. Admission to Norfolk State University does not guarantee admission to the teacher education program.

The licensure and/or degree requirements are under constant revisions due to either, the Commonwealth of Virginia's regulations, Norfolk State University's requirements, or regional or national accreditation standards. Advisors and the School of Education webpage will inform students of the most current information resulting from changes by any of the agencies. Current guidelines and regulations supersede information in this catalog.

TK20 ASSESSMENT SYSTEM GUIDELINES

All students enrolled in a degree program and seeking teacher licensure are to have access to the web-based portfolio assessment system upon enrolling in the first education course. Candidates are to maintain all field experience, clinical practice, and course assessment data as requested by instructors in the Tk20 system. Information about the use of Tk20 is found on the Center for Professional Development webpage at <https://www.nsu.edu/education/cpd/index>.

GENERAL EDUCATION LICENSURE REQUIREMENTS

To be eligible for the early childhood preK-3, elementary education preK-6, or special education-general curriculum K-12 teaching license, students must have an undergraduate degree in liberal arts and sciences (or equivalent) from a regionally accredited institution. The candidate for the non-degree teaching license certification endorsement only, who has a degree in a liberal arts or science area, must fulfill the following semester-hour requirements:

- English (must include composition, oral communication, and literature): 12 semester hours;
- Mathematics: 12 semester hours;
- Science (including a laboratory course): 8 semester hours in at least two science disciplines;
- History (must include American history): 9 semester hours;
- Social science (must include geography and economics): 6 semester hours; and
- Arts and humanities: 6 semester hours.

ASSESSMENT REQUIREMENTS FOR TEACHERS

To satisfy the state of Virginia's testing requirements for the initial licensure programs, students must pass the Praxis Core Academic Skills for Educators Tests (or its equivalent) and Praxis II (if applicable to program), the Virginia Communication and Literacy Assessment (VCLA), and the Reading for Virginia Educators (RVE)..

The Praxis Core Academic Skills for Educators assessment (or its equivalent) include an academic skills assessment of mathematics, reading, and writing and must be passed before admission to teacher education and enrolling in methods of teaching courses.

Praxis II is a content knowledge exam for teachers and must be passed before program completion, if applicable to your program.

VCLA is a test of communication, reading, and writing skills.

VRE is a test of students' knowledge of reading instruction.

You may see the assessment requirements for Virginia licensure at http://www.doe.virginia.gov/teaching/licensure/prof_teacher_assessment.pdf.

Students are responsible for providing copies of the Praxis Core or equivalent test results to the program advisor for admission to teacher education and copies of all other assessments are included in the student teaching application packet. When reporting results for Praxis II, students must submit a paper copy of the "Examinee Score Report." to the Center for Professional Development. The Examinee Score Report is sent to the student by ETS, and it provides detailed score information that the Center for Professional Development is required to collect. (This information is NOT available on the "Designated Institution Score Report" sent to Norfolk State by ETS.) Information about test registration is available on the Center for Professional Development's webpage.

MEETING THE PRAXIS REQUIREMENT

Effective January 1, 2014, the following assessments are required for all candidates who are seeking a license to teach.

The Praxis Core Academic Skills for Educators Tests include Reading (5712), Writing (5722), and Mathematics (5732). These tests require a passing score for each of the three subtests. There is not a composite passing score for the assessments. If a passing score is not obtained on each subtest, a subtest may be retaken as a stand-alone test. The passing score on the reading subtest is 156; writing 162; and mathematics 150.

Virginia Communication and Literacy Assessment (VCLA) as a substitute for Praxis (reading and writing) can be used to meet the Praxis requirement along with the Praxis Core Academic Skills for Educators: Mathematics (5732) subtest scores. A composite score of 470 on the VCLA with subtest scores of at least 235 on writing and 235 on reading may be combined with a qualifying score of 150 on the mathematics portion of the Praxis Core Academic Skills for Educators Test.

ADMISSION TO TEACHER EDUCATION GUIDELINES

Students applying for admission to the teacher education program must have a minimum 3.0 grade point average with no grade below a "C" and must have passed Praxis I or the equivalent tests. Applicants are required to complete a portfolio that contains two letters of recommendation, a copy of their philosophy of education, an update on any disposition documents on file, as well as participate in an interview, and meet any other requirements as outlined in the guidelines provided at Center for Professional Development webpage <https://www.nsu.edu/education/cpd/index>

Students are to be admitted to teacher education prior to enrolling in any professional education observation participation course. Students must continue to maintain a 3.0 GPA and earn at least a grade of "C" for continuance in the teacher education program.

OBSERVATION AND OBSERVATION PARTICIPATION FIELD PLACEMENTS AND CLINICAL PRACTICE

The introductory course, Foundations of Education has an observation experience that is designed to help students decide if teaching is the right choice for them. All methods of teaching courses have an observation participation requirement that must be met in an appropriate, licensed setting. Students are required to have current negative TB test results and a current background verification form in order to request field experience placements. Students must pass Praxis I and meet the requirements for admission to teacher education before participating in an observation-participation field experience. A provisionally licensed teacher may participate in observation participation if s/he has a letter from the Virginia Department of Education listing the course as a needed requirement and has passing VCLA scores.

TEACHER EDUCATION ASSESSMENTS AND APPLYING TO STUDENT TEACH OR COMPLETE THE PRACTICUM

In order to student teach and obtain a Virginia teaching license, all teacher education students must attain passing scores on the appropriate teacher licensure assessments.

It is recommended that the VCLA be taken after students have completed their English and reading course requirements.

The RVE, if applicable, is required for licensure and should be taken after all reading courses have been completed.

Candidates should take the Exit Examination of Writing Proficiency after completing the English courses.

Candidates must receive training in dyslexia and the recognition of child abuse and neglect and keep the certificate to submit with the student teaching and state licensure applications.

Candidates are required to pass the appropriate Praxis II specialty area assessment with scores established by the Virginia Department of Education.

Candidates are required to complete the Emergency First Aid, Cardiopulmonary Resuscitation (CPR) and Use of Automated External Defibrillators (AED) training. Documentation of training must be submitted to the Office of Clinical Experiences and Student Services (OCESS) before you begin your student teaching.

Obtain the application and due dates to student teach at the Office of Clinical Experiences and Student Services (OCESS) webpage. All coursework and other program requirements must be completed before beginning student teaching.

Prior to placements in practicum or internship, students may be required to complete a universal background check, the Child Protective Service Central Registry Release of Information (032-02-1515/1), and a fingerprint check by the school division. Students may be liable for all costs incurred. Candidates must adhere to guidelines outlined in the field experience handbook and located at the Center for Professional Development's webpage.

B.S. in Early Childhood Education --Child Care (Non-Teaching Certification Option)

CURRICULUM

FIRST YEAR

COURSE	COURSE TITLE	HOURS
BIO 100	Biological Science	3
BIO 100L	Biological Science Lab	1
CSC 150	Computer Literacy	3
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
HIS 100	History of World Societies, Part 1	3
HIS 103	United States History to 1865	3
MTH 103	Mathematics in General Education	3
MTH 102 OR MTH 105	Essentials of Algebra or Intermediate Algebra	3
PED 100	Fundamental Fitness for Life	1
SCI 101	Introduction to Physical Science	3
PHY 100L	Physical Science Lab or CHM100L	1
101/102	Spartan Seminars 101 and 102	2
TOTAL HOURS REQUIRED		34

SECOND YEAR

COURSE	COURSE TITLE	HOURS
EDU 201	Foundations of Education	3
ECE 110	Introduction to the Profession	2
ENG 203	Advanced Communication Skills	3
HUM 210	Humanities	3
HIS 103	United States History to 1865	3
PSY 210	Introduction to Psychology	3
PSY 228	Developmental Psychology	3
EED 274	The Study of Young Children	3
ENG 285	Public Speaking	3
ENG 383 or FIA 370	African American English or African/Afro-American Art or MUS 234	3
SEM 201	Spartan Seminar 201	1
TOTAL HOURS REQUIRED		30

STUDENTS MUST MAKE A GRADE OF "C" OR BETTER IN ALL COURSES.

THIRD YEAR

COURSE	COURSE TITLE	HOURS
ECE 375	Children's Drama	3
ECS 300	Introduction to Early Childhood Special Education	3
ECE 224	Children's Literature for Early Childhood Education	3
SOC 237	Race/Culture Minorities	3
ECE 362	Math for Young Children	3
EED 233	Critical Thinking and Assessment	3
ECE 370	Analyzing the Behavior of Children	3
SWK 327	Interviewing Techniques	3
XXX XXX	Electives	8
TOTAL HOURS REQUIRED		32

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
ECE 360	Curriculum and Instruction for Primary Grades (Pre K- 3rd)	3
INT 350	Trends and Issues of Diverse Populations	3
EED 450	Teaching Literacy in Elementary Schools	3
ECE 420	Parent Education	3
ECE 460	Organization and Administration of Child Care Programs	3
ECE 495	Practicum (Child Care Settings)	9
TOTAL HOURS REQUIRED		24

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	38
Electives	8
Other Requirements	34
TOTAL DEGREE HOURS REQUIRED	120

Early Childhood/Primary Certification Endorsement Prek-3 with a B.A. in Psychology

CURRICULUM

FIRST YEAR

COURSE	COURSE TITLE	HOURS
BIO 100L	Biological Science Lab	1
BIO 100	Biological Science	3
CSC 150	Computer Literacy	3
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal & Community Health	2
MTH 103	Mathematics in General Education	3
MTH 105	Intermediate Algebra	3
PED 100	Fundamental Fitness for Life	1
SCI 101	Introduction to Physical Science	3
PHY 100L	Physical Science Lab or CHM 100L	1
PSY 210	Introduction Psychology	3
SEM 101/102	Spartan Seminars 101 and 102	2
TOTAL HOURS REQUIRED		31

SECOND YEAR

COURSE	COURSE TITLE	HOURS
HIS 103	United States History	3
EDU 201	Foundations of Education	3
ENG 203	Advanced Communication Skills	3
ENG 207	Literature in the Western World	3
PSY 211	Basic Principles of Psychology	3
EED 274	Study of Young Children	3
PSY 270	Statistics of Psychology	3
MTH 141	Math for Elementary Teachers	3
ENG 285	Public Speaking	3
FIA 370	African/Afro-American Art or Personal and Community Health	3
SEM 201	Spartan Seminar 201	1
TOTAL HOURS REQUIRED		31

NOTE: STUDENTS MUST PASS PRAXIS I (or equivalent) AND APPLY FOR ADMISSION TO TEACHER EDUCATION AT THE END OF 60 HOURS.

THIRD YEAR

COURSE	COURSE TITLE	HOURS
ECE 362	Math for Young Children	3
EED 360	Curriculum and Instruction for Primary Grades	3
INT 350	Trends and Issues of Diverse Populations	3
SCI 381	Science for Elementary Teachers	3
SCI 381L	Science for Elementary Teachers Lab	1
PSY 312	Behavioral Analysis	3
PSY 313	Behavioral Management	3
PSY 322	Psychology of Exceptional Children	3
PSY 340	Psychology of African Americans	3
PSY 360	Experimental Psychology	3
TOTAL HOURS REQUIRED		28

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
EED 490	Diagnostic Reading	3
EED 470	Methods of Teaching Social Studies for Young Children	3
PSY 492	Psychology Seminar	3
ECS 300	Introduction to Early Childhood Special Education	3
EED 450	Teaching Literacy in Elementary Schools	3
ECE 420	Parent Education	3
EED 495	Student Teaching Practicum	12
TOTAL HOURS REQUIRED		30

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	48
Electives	0
Other Requirements	32
TOTAL DEGREE HOURS REQUIRED	120

Early Childhood For Three-and-Four-Years-Old (Add-On Endorsement)

8VAC20-542-90

For students who want to be licensed to teach PK-3 *AND* three and four year olds the following three graduate level courses *CAN* be taken:

COURSE	COURSE TITLE
EDU 605	Human Growth and Development
ECS 683	Intervention Strategies for High Risk Children
ECS 626	Parent Participation in Education Systems

Note: Students must have passing Praxis CORE/SAT/ACT scores, for entrance into the teacher education program (*prerequisite). Students must pass Praxis II, the Virginia Communication and Literacy Assessment and the Reading for Virginia Educators (RVE) to enter student teaching and exit the program.

Students seeking the 3 and 4 year old add on licensure must be admitted into our graduate program as a non-degree seeking student.

Bachelor of Science Education (in Elementary Education)

CURRICULUM

FIRST YEAR

COURSE	COURSE TITLE	HOURS
BIO 100	Biological Science	3
BIO 100L	Biological Science Lab	1
MTH 103	Contemporary Math	3
EDU 233	Critical Thinking	3
CSC 150	Computer Concepts and Applications	3
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
HIS 102	United States History 1865 to the Present	3
MTH 105	Intermediate Algebra or MTH 102	3
HIS 103	US History 1865 to Present	3
PED 100	Fundamentals of Fitness for Life	1
SEM 101/102	Spartan Seminars 101 and 102	2
TOTAL HOURS REQUIRED		33

SECOND YEAR

COURSE	COURSE TITLE	HOURS
EDU 201	Foundations of Education	3
ENG 203	Advanced Communication Skills	3
FIA 201	Basic Art Appreciation or MUS 301 or ENG 207	3
SCI 101	Physical Science	3
SCI 101L	Physical Science Lab	1
XXX XXX	General Elective	6
EDU 202	Human Growth & Development	3
PSY 210	Introduction to Psychology	3
XXX XXX	General Elective	3
ENG 285	Public Speaking	3
SEM 201	Spartan Seminar 201	1
TOTAL HOURS REQUIRED		32

NOTE: STUDENTS MUST PASS PRAXIS I (or equivalent) AND APPLY FOR ADMISSION TO TEACHER EDUCATION AT THE END OF 60 HOURS.

* Two Common Assessments Administered

* Level III Observation/ Student Teaching

THIRD YEAR

COURSE	COURSE TITLE	HOURS
FIA 370	African American Art History	3
XXX XXX	General Elective	9
SPE 321	Foundations: Char/Med/Legal	3
EED 360	Curriculum & Instruction in Elementary Schools (Pk-3)	3
EDU 381	Classroom Management & Behavior	3
EED 450	Teaching Literacy in the Elementary School	3
MTH 142	Mathematics for Elementary Teachers II	3
INT 350	Trends /Issues in Diverse Pop.	3
EDU 420	Educational Technology	3
EED 461	Curriculum & Instructions	3
TOTAL HOURS REQUIRED		30

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
EED 470	Methods of Social Studies in the Elementary School	3
EED 490	Diagnostic Reading	3
EED 499	** Directed Teaching	12
EED 465	Methods of Math & Science in Elementary Schools	3
XXX XXX	General Elective	3
TOTAL HOURS REQUIRED		24

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	42
Electives	9
Other Requirements	29
TOTAL DEGREE HOURS REQUIRED	120

Bachelor of Science Education in Special Education & Teaching

CURRICULUM

FIRST YEAR

COURSE	COURSE TITLE	HOURS
BIO 100	Biological Science	
BIO 100L	Biological Science Lab	1
ENG 101	College English I	3
ENG 102	College English II	3
CSC 150	Computer Concepts & Applications	3
HED 100	Personal and Community Health	2
HIS 102	U.S. History to 1865 or HIS 103 United States History 1865 to the Present	3
MTH 102	Essentials of Algebra or MTH 105	3
MTH 103	Contemporary Algebra	3
PED 100	Fundamentals of Fitness for Life	1
SCI 101	Introduction to Physical Science	3
EDU 233	Critical Thinking	3
SEM 101/102	Spartan Seminar 101 and 102	2
TOTAL HOURS REQUIRED		33

SECOND YEAR

COURSE	COURSE TITLE	HOURS
FIA201	Art Appreciation or MUS 301	3
EDU 201	Foundations of Education	3
ENG 285	Public Speaking	3
EDU 202	Human Growth & Development	3
PED 365	Adapted Physical Education	3
SCI 101	Physical Science	3
SCI 101L	Physical Scienc Lab	1
XXX XXX	General Elective	6
ENG 203 or ENG 286	Advanced Communication Skills or Advanced Composition Skills	3
SPE 321	Found: Char/Med Legal Aspect	3
SEM 201	Spartan Seminar 201	1
TOTAL HOURS REQUIRED		32

NOTE: STUDENTS MUST PASS PRAXIS I (or equivalent) AND APPLY FOR ADMISSION TO TEACHER EDUCATION AT THE END OF 60 HOURS.

* Two Common Assessments Administered
* Level III Observation/Student Teaching

THIRD YEAR

COURSE	COURSE TITLE	HOURS
SPE 332	Curriculum & Instruction	3
EDU 381	Classroom & Behavior Management	3
SPE 344	Teaching Reading	3
INT 350	Trends & Issues of Diverse Pop.	3
XXX -XXX	General Elective	6
SPE 312	Applied Behavior Analysis for Teachers	3
SPE 345	Teaching Math to Exceptional Students	3
SPE 440	Case Management and Collaboration	3
EDU 420	Educational Technology	3
TOTAL HOURS REQUIRED		30

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
XXX XXX	General Eelctive	3
EED 490	Diagnostic Reading	3
SPE 445	Transition	3
SPE 492	Assessment of Exceptional Students	3
EDU 499	**Directed Teaching	12
TOTAL HOURS REQUIRED		24

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOUR
General Education Core	40
Major Requirements	50
Other Requirements	31
TOTAL DEGREE HOURS REQUIRED	120

DEPARTMENT OF HEALTH, PHYSICAL EDUCATION AND EXERCISE SCIENCE

Dr. Tarin Hampton
Department Head
(757) 823 - 8071

The Department offers professional preparation leading to the Bachelor of Science Degree with the following emphases:

- Health, Wellness and Rehabilitation (HWR)
- Physical Education – Teacher Certification PreK-12
- Health Fitness Instructor
- Kinesiotherapy

Health, Wellness and Rehabilitation (HWR) will provide graduates with the skills and knowledge needed for a range of careers including: the areas of Cardiac Rehabilitation; Pulmonary Rehabilitation; and Sports Medicine (i.e., Physical Therapy, Athletic Training, Orthopedic Rehabilitation, and Exercise Physiology).

The certified physical educator is trained to teach physical education in grades K-12. The teacher certification program in physical education also permits an add-on endorsement in health, aquatics, and/or driver education.

The certified health fitness instructor is trained to deliver fitness training in corporate settings, health spas, and in other areas of the sport and fitness industry.

The kinesiotherapist is a health care professional who, under the direction of a physician, treats the effects of disease, injury, and congenital disorders through the use of therapeutic exercise, rehabilitation exercise and education.

BS in Exercise Science: Health Wellness and Rehabilitation

CURRICULUM

FIRST YEAR

COURSE	COURSE TITLE	HOURS
BIO 100	Biological Science / Gen. Science	3
BIO 110L	Biological Science/ Gen. Science Lab	1
ENG 101	College English I	3
ENG 102	College English II	3
CSC 150	Computer Concepts & Applications	3
HED 170	Personal and Community Health	3
EXS 170	Introduction to Exercise Science	3
CHM 221	General Chemistry I	3
CHM 221L	General Chemistry I Lab	1
MTH 153	College Algebra and Trigonometry	3
PED 100	Fundamentals of Fitness for Life	1
SEM 101/102 or 101H/102H	Spartan Seminar 101 and 102	2
TOTAL HOURS REQUIRED		29

SECOND YEAR

COURSE	COURSE TITLE	HOURS
FSN 110	Science Human Nutrition	3
PED 200	Beginner Fitness Through	
	Weight Training	2
PSY 210	Introduction to Psychology	3
PED 287	Human Anatomy	3
PED 287L	Human Anatomy Lab	1
HUM 210/ HUM 211	Humanities	3
PHY 152	General Physics	3
PHY 152 L	General Physics Lab	1
ENG 285	Public Speaking	3
PED 288	Human Physiology	3
PED 288L	Human Physiology Lab	1
** XXX	Social Sciences	3
PED 133	Beginning Swimming	1
SEM 201/ 201H	Spartan Seminar 201	1
TOTAL HOURS REQUIRED		31

(Pre-requisite)

- **Cultural Perspectives:** ENG 383/ /MUS 234/HIS 335/HIS 336/HRP 320 and HIS 371) FIA 370/POS 315/PSY 340/ SOC 237 and HIS 370 are accepted but not recommended.
- ***Humanities:** (ENG 207/FIA 201/MUS 301)
HUM 210 and HUM 211 accepted but not recommended
- ***Social Sciences:** (SOC 101/HIS101/HIS 103/BUS 175/ECN 200)
HIS 100 and HIS 102 are accepted but not recommended
- **** PED XXX:** (Aerobics, Bowling, Dance, Golf, Life Saving, Tennis, Water Aerobics, Weight Lifting)

Additional Prerequisites for Graduate School

CHM 216 & CHM 216L or CHM 222 & CHM 222L, PHY 153 & PHY 153L
Check additional admission requirements for graduate school of your preference

THIRD YEAR

COURSE	COURSE TITLE	HOURS
EXS 291	Care & Prevention of Athletic Injuries	3
EXS 355	Anatomical Kinesiology	3
PSY 228	Developmental Psychology	3
PED 251	Modern Dance I	1
PED 365	Anatomical Kinesiology	3
HED 368A/ HED 368AH	Curriculum and Methods in Health Education	3
EXS 369	Research Methods and Statistical Evaluation	3
PED 300	Advanced Fitness Through Weight Training	2
EXS 356	Biomechanics of Movement	3
EXS 300	Exercise Physiology	3
EXS 300L	Exercise Physiology Lab	1
*** XXX	Cultural Perspectives	3
TOTAL HOURS REQUIRED		31

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
EXS 483	Clinical Kinesiology	3
EXS 292	Comprehensive Stress Management	3
EXS 363/ EXS 363H	Clinical Aspects of Aging	2
EXS 430	Neurological and Pathological Foundations in Exer. Science	3
*** XXX	Cultural Perspectives	3
PED 450 / PED 450H	Motor Learning	3
* PED 496	Internship	12
TOTAL HOURS REQUIRED		29

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core Requirements	42
Major Requirements	40
HWR Concentration Requirements	38
TOTAL DEGREE HOURS REQUIRED	120

Driver's Education Endorsement:

PED 441 Driver's Education Task Analysis

PED 444 Driver's Education (Practical, in Car) (PED 441)

PED 443 Driver's Education for the Handicapped (PED 441 & 444)

Lifeguarding Certification:

PED 325 (PED 133/134 and/or instructor's approval)

B.S. in Exercise Science/Health and Physical Education

CURRICULUM

FIRST YEAR

COURSE	COURSE TITLE	HOURS
BIO 100/ BIO 100L	Biological Science and Lab	4
CSC 150	Computer Concepts & Applications	3
ENG 101	College English I	3
ENG 102	College English II	3
HED 170	Personal and Community Health	3
MTH 103	Mathematics in General Education	3
PED 170/ 170H	Introduction to Physical Education	3
PED 151	Rhythm and Folk Dance	1
PED 158	Fundamentals of Physical Education	1
*** XXX	Social Sciences	3
SEM 101/102 101H/102H	Spartan Seminars 101 and 102	2
TOTAL HOURS REQUIRED		29

THIRD YEAR

COURSE	COURSE TITLE	HOURS
HED 368A*	Curriculum and Methods in Health Education	3
PED 271	Cooperative & Target Games	1
PED 335	Skill Analysis	2
PED 356	Kinesiology	3
PED 357	Organization and Administration	3
*** XXX	Cultural Perspectives	3
PED 362	Coaching and Officiating	2
PED 365	Adapted Physical Education	3
PED 369	Measurements and Evaluations	3
PED 370	Secondary PE Methods	3
PED 477	Physiology of Exercise	3
EDU 381	Classroom Behavior Management	3
TOTAL HOURS REQUIRED		32

SECOND YEAR

COURSE	COURSE TITLE	HOURS
EDU 201	Foundations of Education	3
PED 200	Beginner Fitness Through Weight Lifting	2
*** XXX	Humanities	3
PED 133	Beginning Swimming	1
PED 251	Modern Dance I	1
PED 300/ 300H	Advanced Fitness Through Weight Training	2
PED 261	Team Sports I	1
PED 262	Team Sports II	1
PED 287	Human Anatomy or BIO 165	3
PED 287L	Human Anatomy Lab or BIO 165L	1
PED 288	Human Physiology or BIO 166	3
PED 288L	Human Physiology Lab or BIO 166L	1
PSY 228	Developmental Psychology	3
ENG 285	Public Speaking	3
HED 254	School & Community Health Education Programs	3
SEM 201	Spartan Seminar 201	1
TOTAL HOURS REQUIRED		32

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
PED 380/ 380H	Elementary Physical Education Methods	3
SED 405	Reading in the Content Areas Principles of Physical	3
PED 450/ 450H	Motor Learning	3
EDU 486	Educational Psychology and Behavior	3
*** XXX	Cultural Perspectives	3
SED 499/ 499H	Student Teaching	12
TOTAL HOURS REQUIRED		27

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	52
Electives	0
Other Requirements	28
TOTAL DEGREE HOURS REQUIRED	120

* MUST PASS PRAXIS CORE BEFORE ENROLLMENT WILL BE PERMITTED

NOTE: STUDENTS MUST PASS PRAXIS CORE AND APPLY FOR ADMISSION TO TEACHER EDUCATION AT THE END OF 60 HOURS.

B.S. in Exercise Science/Health and Physical Education

Students are strongly advised to take: PED 179 First Aid or American Red Cross equivalent 2 Credits.

HEALTH ENDORSEMENT

COURSE	COURSE TITLE	HOURS
FSN 110	The Science of Human Nutrition	3
PED 179	First Aid	2
PED 200	Beginning Fitness through Weight Training or PED 300	2
HED 170	Personal and Community Health	3
HED 368A	Curriculum and Methods in Health Education	3
HED 442	General Safety Education	3
FSN 449	Nutrition I Sports and Fitness	3

MEETING THE PRAXIS REQUIREMENT

Effective January 1, 2014, the following assessments are required for all candidates who are seeking a license to teach.

Praxis Core Academic Skills for Educators Tests include Reading (5712), Writing(5722), and Mathematics (5732). These tests require a passing score for each of the three subtests. There is not a composite passing score for the assessments. If a passing score is not obtained on each subtest, a subtest may be retaken as a stand-alone test. The passing score on the reading subtest is 156; writing 162; and mathematics 150.

SAT as a substitute for Praxis Core requires a score of 1000 with at least 450 on the verbal and 510 on the mathematics test if taken prior to April 1, 1995. After April 1, 1995 a score of 1100 with at least 530 on the verbal and 530 on the mathematics tests is required.

ACT as a substitute for Praxis Core requires a composite score of 21 with the ACT mathematics score no less than 21 and an ACT English Plus Reading score no less than 37 if taken prior to April 1, 1995. After April 1, 1995 a composite score of 24 with the ACT mathematics score no less than 22 and an ACT English Plus Reading score no less than 46.

Virginia Communication and Literacy Assessment (VCLA) as a substitute for Praxis (reading and writing) can be used to meet the Praxis requirement along with the Praxis Core Academic Skills for Educators: Mathematics (5732) subtest or equivalent SAT or ACT test scores. A composite score of 470 on the VCLA with subtest scores of at least 235 on writing and 235 on reading may be combined with a qualifying score of 150 on the mathematics portion of the Praxis Core Academic Skills for Educators Test.

DRIVER EDUCATION ENDORSEMENT***

COURSE	COURSE TITLE	HOURS
PED 441	Driver Task Analysis	3
PED 444	Principles and Methods of	3
	Department Requirement – PED 179 or Red Cross Equivalent	2

***Enrollment requires completion of Requirements for admission to teacher education

ADMISSION TO TEACHER EDUCATION GUIDELINES

Students applying for admission to the teacher education program must have a minimum 2.5 grade point average with no grade below a C and must have passed Praxis I or the equivalent tests. Applicants are required to complete a portfolio that contains two letters of recommendation, a copy of their philosophy of education, an update on any disposition documents on file, as well as participate in an interview, and meet any other requirements as outlined in the guidelines provided at Center for Professional Development webpage <https://www.nsu.edu/education/cpd/index>

Students are to be admitted to teacher education prior to enrolling in any professional education observation participation course. Students must continue to maintain a 2.5 GPA and earn at least a grade of "C" for continuance in the teacher education program.

OBSERVATION, OBSERVATION PARTICIPATION, FIELD PLACEMENTS AND CLINICAL PRACTICE

The introductory course, Foundations of Education has an observation experience that is designed to help students decide if teaching is the right choice for them. All methods of teaching courses have an observation participation requirement that must be met in an appropriate, licensed setting. Students are required to have current negative TB test results and a current background verification form in order to request field experience placements. Students must pass Praxis I and meet the requirements for admission to teacher education before participating in an observation-participation field experience. A provisionally licensed teacher may participate in observation participation if s/he has a letter from the Virginia Department of Education listing the course as a needed requirement and has passing VCLA scores.

TEACHER EDUCATION ASSESSMENTS AND APPLYING TO STUDENT TEACH OR THE PRACTICUM

In order to student teach and obtain a Virginia teaching license, all teacher education students must attain passing scores on the appropriate teacher licensure assessments.

It is recommended that the VCLA be taken after students have completed their English and reading course requirements.

The RVE is required for licensure and should be taken after all reading courses have been completed, if applicable.

Candidates should take the Exit Examination of Writing Proficiency after completing the English courses.

Candidates must receive training on the recognition of child abuse and neglect in the designated course and keep the certificate to submit with the licensure application.

Candidates are required to pass the appropriate Praxis II specialty area assessment with scores established by the Virginia Department of Education.

Candidates are required to complete the Emergency First Aid, Cardiopulmonary Resuscitation (CPR) and Use of Automated External Defibrillators (AED) training. Documentation of training must be submitted to the Center for Professional Development before you begin your student teaching. Obtain the application and due dates to student teach at the Center for Professional Development's webpage. All coursework and other program requirements must be completed before beginning student teaching.

Prior to placements in practicum or internship, candidates must earn a 3.0 GPA and may be required to complete a universal background check, the Child Protective Service Central Registry Release of Information (032-02-1515/1), and a fingerprint check by the school division. Students may be liable for all costs incurred. Candidates must adhere to guidelines outlined in the field experience handbook and located at the Center for Professional Development's webpage.

B.S. Exercise Science/Health and Physical Education – Health Fitness Instructor

CURRICULUM

FIRST YEAR

COURSE	COURS TITLE	HOURS
BIO 100	Biological Science/ Gen. Science	3
BIO 100L	Biological Science Lab	1
CSC 150	Computer Literacy	3
ENG 101	College English I	3
ENG 102	College English II	3
HED 170	Personal and Community Health	3
PED 158	Fundamentals of Physical Education	1
MTH 103/ MTH105	Contemporary Math/ Intermediate Algebra	3
PED 133/ 134	Beginning Swimming	1
*** XXX	Social Sciences	3
PED 170/ 170H	Introduction to Physical Education	3
PED 200	Beginning Fitness through Weight Training	2
SEM 101/102	Spartan Seminars 101 and 102	2
TOTAL HOURS REQUIRED		31

SECOND YEAR

COURSE	COURSE TITLE	COURSE
SCI 101	Physical Science	3
PHY/CHM/ SCI 100L	Physical Science Lab	1
FSN 110	Science of Human Nutrition	3
HUM 210/211	Humanities I or ENG 207, ENG 383	3
PED 107	Aerobics	1
PED 200/ 200H	Measurement and Evaluation in PE	3
SEM 201	Spartan Seminar 201	1
PED 251	Modern Dance	1
PED 261/262	Team Sports	1
PED 287	Human Anatomy or BIO 165	3
PED 287L	Human Anatomy Lab or BIO 165L	1
PED 288	Human Physiology or BIO 166	3
PED 288L	Human Physiology or BIO 166L	1
PSY 228	Developmental Psychology	3
PED 179	First Aid, CPR	2
TOTAL HOURS REQUIRED		30

THIRD YEAR

COURSE	COURSE TITLE	HOURS
*** XXX	Cultural Perspectives	3
EXS 363	Clinical Aspects of Aging	2
EXS 291	Care & Prevention of Athletic Injuries	3
PED 357	Organization & Administration of PE Programs	3
PED 365/ 365H	Adapted Physical Education	3
PED 356	Kinesiology	3
*** XXX	Social Sciences	3
EXS 292	Stress Management	3
EXS 300L	Exercise Physiology Lab	1
PED 370	Secondary PE Methods	3
PED 477/ 447H	Physiology of Muscle Exercise	3
ENG 285	Public Speaking	3
TOTAL HOURS REQUIRED		33

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
PED 300/ 300H	Advanced Fitness through Weight Training	2
** XXX	Cultural Perspectives	3
PED 450	Motor Learning	3
PED 451	Sports Psychological Aspects of Sports	3
PED 495	* Internship Experience I	3
PED 496	Exercise Science Internship	12
TOTAL HOURS REQUIRED		26

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements Other	57
Requirements	23
TOTAL DEGREE HOURS REQUIRED	120

B.S. in Exercise Science/Health and Physical Education — Health Fitness Instructor

ELECTIVES

INDIVIDUAL/DUAL SPORTS

COURSE TITLE	HOURS
PED 109 Water Aerobics	1
PED 135 Beginning Surfing	1
PED 204 Tennis I	1
PED 206 Tennis II	1
PED 209 Bowling	1
PED 210 Golf	1
PED 212 Racquetball	1

HEALTH CONTENT

COURSE	COURSE TITLE	HOURS
FSN 449	Nutrition/Sports Fitness	3

AQUATICS

COURSE	COURSE TITLE	HOURS
PED 134	Advanced /Beginning Swimming	1
PED 235	Aqua Sport & Activities	1
PED 325	Lifeguard Training	3

TEAM SPORTS

COURSE	COURSE TITLE	HOURS
PED 158/159	Fundamentals	1
PED 261/262	Team Sports	1

(Course Pre-requisites)

****Cultural Perspectives:** ENG 383/ /MUS 234/HIS 335/HIS 336/HRP 320 and HIS 371)
 - FIA 370/POS 315/PSY 340/SOC 237 and HIS 370 are accepted but not recommended.
*****Humanities:** (ENG 207/FIA 201/MUS 301)
 - HUM 210 and HUM 211 accepted but not recommended
******Social Sciences:** (SOC 101/HIS101/HIS 103/BUS 175/ECN 200)
 - HIS 100 and HIS 102 are accepted but not recommended
******* PED XXX:** (Aerobics, Bowling, Dance, Golf, Life Saving, Tennis, Water Aerobics, Weight Lifting)

Driver's Education Endorsement:

PED 441 Driver's Education Task Analysis
 PED 444 Driver's Education (Practical, in Car) (PED 441)
 PED 443 Driver's Rehabilitation (PED 441 & 444)

Lifeguarding Certification:

PED 325 (PED 133/134 and/or instructor's approval)

Additional Prerequisites for Graduate School

CHM 216 &CHM 216L or CHM 222 & CHM 222L, PHY 153 & PHY 153L
 Check additional admission requirements for graduate school of your preference

B.S. in Exercise Science/Health and Physical Education -- Kinesiotherapy

CURRICULUM

FIRST YEAR

COURS	COURSE	HOURS
ENG 101	College English I	3
ENG 102	College English II	3
EXS 170	Introduction to Exercise Science	3
HED 170	Personal and Community Health	3
HRP 120	Medical Terminology	3
PED 158	Fundamentals of Physical Educ.	1
PED 133/134	Beginning Swimming	1
PED 287	Human Anatomy/	3
PED 287L	Human Anatomy Lab	1
PED 288	Human Physiology	3
PED 288L	Human Anatomy Lab	1
MTH 151	College Algebra	3
CSC 150	Computer Concepts & Application	3
SEM 101/102	Spartan Seminars 101 and 102	2
TOTAL HOURS REQUIRED		33

SECOND YEAR

COURSE	COURSE TITLE	HOURS
FSN 110	Science of Human Nutrition	3
CHM 215	Chemistry	3
CHM 215L	Chemistry Lab	1
EXS 291	Care & Prevention of Athletic Injuries	3
EXS 355	Anatomical Kinesiology	3
EXS 300	Physiological Basis of Exercise	3
EXS 300L	Physiological Basis of Exercise Lab	1
EXS 292	Stress Management	3
PSY 210	Introduction Psychology	3
**** XXX	Social Sciences	3
EXS 267	Therapeutic Exercises & Sports	4
EXS 356	Biomechanics of Human Motion	3
SEM 201	Spartan Seminar 201	1
TOTAL HOURS REQUIRED		34

NOTE: Communication and Literacy Assessment to exit the program (EXE/ HPE). Students must pass Praxis I, for entrance into the teacher education program. Students must pass Praxis II and the Virginia

(Course Pre-requisites)

* Must have completed all didactic coursework. Advised to have current certifications: CPR, First Aid, and AED. Preapproval required (See KT Program Director) for course registration

THIRD YEAR

COURSE	COURSE TITLE	HOURS
PSY 228	Anatomical Kinesiology	3
EXS 363	Clinical Aspects of Aging	2
PED 365/365H	Adapted Physical Education	3
EXS 430	Neurological & Pathological Foundations in EXS	3
EXS 483	Clinical Kinesiology	3
PSY 280	Abnormal Psychology	3
HUM XXX	Humanities	3
EXS 491	Clinical Experience Practicum	3
EXS 369	Research Methods & Statistical Evaluations	3
EXS 484	Clinical Kinesiology II	3
PED 450/450H	Motor Learning	3
ENG 285	Public Speaking	3
TOTAL HOURS REQUIRED		35

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
EXS 493G	Clinical Internship/ Exercise Science * (all didactic course work)	10
*** XXX	Cultural Perspectives (online)	3
*** XXX	Cultural Perspectives (online)	3
EXS 493H	Clinical Internship/ Exercise Science* (all didactic coursework)	10
TOTAL HOURS REQUIRED		26

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	79
Other Requirements	9
TOTAL DEGREE HOURS REQUIRED	128

DEPARTMENT OF SECONDARY EDUCATION AND SCHOOL LEADERSHIP

Dr. Kathleen Thomas
Department Head (I)
(757) 823 - 8652

The Department of Secondary Education and School Leadership offers multi-dimensional Urban Education degree programs and teacher education to assist in-service and pre-service school practitioners interested in acquiring state-endorsements and enhancing their professional development.

Teacher Licensure Endorsement in Secondary Education

1. Candidates must take the General Education Core before applying to teacher education (<https://www.nsu.edu/education/cpd/index>)
2. Candidates are required to enroll in an undergraduate degree in the field in which they plan to teach:
 - Art/Fine Arts
 - Biology
 - Chemistry
 - English
 - Health and Physical Education
 - History and Social Science
 - Mathematics
 - Music/Instrumental
 - Music/Vocal
 - Physics
3. During the second semester of their sophomore year, candidates interested in teaching should submit an application for Admissions to Teacher Education to the Center for Professional Development. The criteria for admissions are as follows:
 - a) Passing Praxis Core Skills Test or the equivalent SAT/ACT board approved passing scores; or Virginia Communication and Literacy Assessment (VCLA) and PRAXIS Core Skills for Math individually.

Please note , Elementary and Special Education candidates are required to pass the Reading for Virginia Educators (RVE) in addition to the PRAXIS CORE SKILLS TEST.

- b) Candidates must pass EDU 201 (see below), show earned 60 semester hours of credit with a 3.0 grade-point average in total hours attempted at NSU in their major and in all college work attempted; no grade below C; Candidates must submit:
 - two current letters of recommendation
 - a typed biography
 - a written philosophy of education statement
 - Universal Background Check
 - Confer with an advisor for the guidelines used to complete your binder
- c) They must also complete the following certifications:
 - CPR
 - First Aid
 - AED (Automatic External Defibrillator)
 - Child Abuse Awareness Certificate
- d) Candidates who have not met this requirement are not eligible to take SED 300-level Methods Courses or SED 499 Directed Student Teaching in the Teacher Education Program.

<https://www.nsu.edu/Assets/websites/cpd/teacher-education/Milestones-to-Completing-a-Teacher-Education-Program.pdf>

COURSE	COURSE TITLE	HOURS
EDU 201	Foundations of Education	3
SED 384	Curriculum and Instructional Procedures in Mathematics	3
SED 385	Curriculum and Instructional Procedures in Science	3
SED 386	Curriculum and Instructional Procedures in Fine Arts	3
SED 387	Curriculum and Instructional Procedures in English	3
SED 388	Curriculum and Instructional Procedures in Foreign Languages	3
SED 390	Curriculum and Instructional Procedures in History and Social Studies	3
SED 405	Reading in the Content Areas	3
SED 420	Educational Technology (elective)	3
EDU 486	Human Growth and Development	3
SED 499	Directed Teaching	12
<p>*** Throughout the program, candidates must also complete the <i>Methods of Teaching (Curriculum and Instructional Procedures)</i> in their content area and other licensure courses.</p>		

LIST OF NOTES FOR SECONDARY EDUCATION AND SCHOOL LEADERSHIP

NOTE A

A student needs to take the TWO following courses:

COURSE	COURSE TITLE
BIO 100	Biological Sciences
SCI 101	Introduction to Physical Science

NOTE B

A student needs to take ONE (1) of the following laboratory courses. The laboratory course must be in the same area as one of the science lecture courses taken:

COURSE	COURSE TITLE
BIO 100L	Biological Science Lab
SCI 100L	Physical Science Lab

NOTE C

A student with 600 on the quantitative section of SAT I or a score of 3 or higher on the advanced placement test in mathematics need not take MTH 131. Instead, the student will take MTH 132 and then proceed to take either MTH 300 (Linear Algebra) or a course in natural science or a course from the Global/ Cultural and Language Electives listed in Note D.

NOTE D

Humanities (3 credit hours)

A student will choose ONE (1) course from the list below.

COURSE	COURSE TITLE
ENG 207	Introduction to World Literature
ENG 383	African-American Literature
FIA 301	Basic Art Appreciation
GEO 141	World Regional Geography
GEO 331	Economic Geography
GEO 336	Political Geography
GEO 337	Geography of Africa
HIS 336	African-American History since 1865
HIS 360	Latin America: Argentina, Brazil, and Chile
HIS 361	Latin America: Readings in Latin American History
HIS 365	Introduction to Modern Near-East Latin America: Mexico, Central America, and the Caribbean
HIS 370	African History and Culture
HIS 371	African History and Culture
HIS 374	East Asian Civilization
HIS 375	Contemporary Economic System of China
HIS 376	Contemporary Economic System of Japan
HIS 446	Latin America Colonial
HIS 448	Slavery in the Atlantic Basin
HIS 476	Modern China and Modern Japan

COURSE	COURSE TITLE
HUM 210	Humanities
HUM 211	Humanities
MUS 301	Music Appreciation
POS 315	Blacks in American Political Process
POS 323	Comparative Government
POS 360	International Politics
POS 442	International Law
POS 461	International Organization
POS 462	The Near (Middle) East in International Affairs
POS 463	Politics of African Nations
POS 467	Introduction to Non-Western Politics
POS 468	A Survey of Contemporary Governments of Asia
PSY 340	Psychology of African Americans
REL 200	Major World Religions
SOC 101	Introduction to Social Science
SOC 237	Racial and Cultural Minorities
SOC 242	Introduction to Anthropology
GRM 111/112	Elementary German I and II
JPN 111/ 112	Elementary Japanese I and II
RUS 111/112	Elementary Russian I and II
SPN 111/112	Elementary Spanish I and II

NOTE E

Cultural Perspectives (6 credit hours)

A student will choose ONE (1) course from the list below.

COURSE	COURSE TITLE
ENG 383	African-American Literature
FIA 170	African and African-American Art
MUS 234	African-American Music

A student will choose ONE (1) course from the list below:

COURSE	COURSE TITLE
HIS 335	African-American History, Part I
HIS 336	African-American History, Part II
HIS 370	African History and Culture, Part I
HIS 371	African History and Culture, Part II
JRN 299	Multiculturalism and Mass Media
SOC 237	Racial and Cultural Minorities

NOTE F

Candidates must pass the PRAXIS Core prior to enrolling in SED 300-level courses and SED 499 directed student teaching:

<https://www.nsu.edu/assessments/websites/cpd/teacher-education/milestones-to-completing-a-teacher-education-program.pdf>

Teacher Licensure Endorsement is offered by the School of Education. The various curricula prepare graduates to continue their education in graduate or professional schools, or to obtain entry-level positions in industry, government, or education.

A student must pass the PRAXIS Core Exam to be admitted to teacher education and directed teaching listed above. See other requirements under admission to teacher education and directed teaching listed above.

MEETING THE PRAXIS REQUIREMENT

Effective January 1, 2014, the following assessments are required for all candidates who are seeking a license to teach.

The Praxis Core Academic Skills for Educators Tests include Reading (5712), Writing (5722), and Mathematics (5732). These tests require a passing score for each of the three subtests. There is not a composite passing score for the assessments. If a passing score is not obtained on each subtest, a subtest may be retaken as a stand-alone test. The passing score on the reading subtest is 156; writing 162; and mathematics 150.

Virginia Communication and Literacy Assessment (VCLA) as a substitute for Praxis (reading and writing) can be used to meet the Praxis requirement along with the Praxis Core Academic Skills for Educators: Mathematics (5732) subtest is required. A composite score of 470 on the VCLA with subtest scores of at least 235 on writing and 235 on reading may be combined with a qualifying score of 150 on the mathematics portion of the Praxis Core Academic Skills for Educators Test.

ADMISSION TO TEACHER EDUCATION GUIDELINES

Students applying for admission to the teacher education program must have a minimum grade point average of 3.0 and are required to complete a portfolio that contains two letters of recommendation, a copy of their philosophy of education, and an update on any disposition documents on file. They are required to participate in an interview, and meet any other requirements as outlined in the guidelines provided at Center for Professional Development webpage <https://www.nsu.edu/education/cpd/index>.

Students are to be admitted to teacher education prior to enrolling in any professional education observation participation course.

OBSERVATION, OBSERVATION PARTICIPATION, FIELD PLACEMENTS AND CLINICAL PRACTICE

The introductory course, Foundations of Education has an observation experience that is designed to help students decide if teaching is the right choice for them. All methods of teaching courses have an observation participation requirement that must be met in an appropriate, licensed setting. Students are required to have current negative TB test results and a current background verification form in order to request field experience placements. Students must pass Praxis I and meet the requirements for admission to teacher education before participating in an observation-participation field experience. A provisionally licensed teacher may participate in observation participation if s/he has a letter from the Virginia Department of Education listing the course as a needed requirement and has passing VCLA scores.

TEACHER EDUCATION ASSESSMENTS AND APPLYING TO STUDENT TEACH OR THE PRACTICUM

In order to student teach and obtain a Virginia teaching license, all teacher education students must attain passing scores on the appropriate teacher licensure assessments.

It is recommended that the VCLA be taken after students have completed their English and reading course requirements.

The RVE, if applicable, is required for licensure and should be taken after all reading courses have been completed, if applicable.

Candidates should take the Exit Examination of Writing Proficiency after completing the English courses.

Candidates must receive training on the recognition of child abuse and neglect in the designated course and keep the certificate to submit with the licensure application.

Candidates are required to pass the appropriate Praxis II specialty area assessment with scores established by the Virginia Department of Education.

Candidates are required to complete the Emergency First Aid, Cardiopulmonary Resuscitation (CPR) and Use of Automated External Defibrillators (AED) training. Documentation of training must be submitted to the Center for Professional Development before you begin your student teaching. Obtain the application and due dates to student teach at the Center for

Professional Development's webpage. All coursework and other program requirements must be completed before beginning student teaching.

Prior to placements in practicum or internship, students may be required to complete an universal background check, the Child Protective Service Central Registry

Release of Information (032-02-1515/1), and a fingerprint check by the school division. Students may be liable for all costs incurred. Candidates must adhere to guidelines outlined in the field experience handbook and located at the Center for Professional Development's webpage.

COLLEGE OF LIBERAL ARTS

Dr. Cassandra Newby-Alexander
Dean
Dr. Chindeu Okala
Associate Dean
(757) 823-8118

The College of Liberal Arts is comprised of a broad range of academic disciplines in the humanities and social sciences with undergraduate and graduate degrees housed in seven departments: English and Foreign Languages, Mass Communications and Journalism, History and Interdisciplinary Studies, Political Science, Psychology, Sociology, and Visual and Performing Arts (Fine Arts and Music). In addition, WNSB 91.1 FM is housed in the College of Liberal Arts.

THE MISSION OF THE COLLEGE is to provide a transformative education that enables students to maximize their potential to become creative, independent thinkers and lifelong learners who adapt and contribute ethically to evolving national and international societies.

The College of Liberal Arts impacts every student who matriculates through Norfolk State University. In addition to ten undergraduate academic degree programs and seven graduate academic degree programs, the college serves as a service area for students taking introductory courses in the general education core. Exposure to courses in the areas of English, Music, Fine Arts, History, Sociology, and Psychology affords students many opportunities to appreciate and understand their role in a global society.

Within the context of the University's strategic plan, the overall goals of the College of Liberal Arts are to:

1. Provide students with a liberating education that is conducive to life-long learning
2. Impart knowledge, strengthen communicative and quantitative abilities, and enhance research and inquiry skills in the various subject matter areas.
3. Develop habits of independent thought and critical thinking.
4. Promote attitudes of understanding, respect, and tolerance for one's own culture and the cultures of other people.
5. Engender in students an appreciation of the moral and ethical components of life.
6. Define educational standards that address the changing paradigms and diverse needs of students in a changing global society.
7. Provide highly qualified graduates for the global workforce.
8. Contribute to the social consciousness, civic engagement, and cultural enrichment of the community through the provision of programs, exhibits and workshops in the arts, humanities, and social sciences.

TECHNOLOGICAL PROFICIENCY

The College of Liberal Arts realizes that technological proficiency is an integral component of career preparation and life-long learning. Accordingly, all curricula in the College of Liberal Arts incorporate basic and discipline-appropriate technological instruction.

DEPARTMENT OF ENGLISH AND FOREIGN LANGUAGES

Dr. Gary Wilkens
Department Head
(757) 823 - 2956

The English and Foreign Languages Department aims to develop in students an understanding of language development and of the structure and uses of language in their various written and spoken forms. The Department aims to help students in all majors to develop facility in the use of the English language for various purposes and contexts and to respond appreciatively to the beauty, power and utility of language in varied media. The Department offers its majors opportunities to concentrate in English, English with a Secondary Endorsement, Creative Writing, French Literature and Spanish Literature.

The Foreign Languages program in the Department seeks to develop students' fundamental skills in French, Spanish, and other languages, including Arabic, as staff resources permit. It seeks also to generate or broaden student interest in world cultures through language study.

ENGLISH REQUIREMENTS

Requirements for the major: Sixty-five or more hours are required in discipline-related courses in all of the concentrations for the Bachelor of Arts in English. All discipline-related courses must be passed with a grade of C or better.

Requirements for certification to teach in the Commonwealth of Virginia include: A minimum of thirty-six semester hours (including ENG 101, ENG 102, American and British literature, language and related courses).

FOREIGN LANGUAGE REQUIREMENTS

English majors are required to complete 12 credit hours of a foreign language, usually French or Spanish, with a grade of C or better. General foreign language requirements can be fulfilled upon the successful completion of course work through the 212 (or 213: Scientific French/German) level. Students may satisfy all or part of this requirement by obtaining satisfactory scores on a CLEP examination.

Freshmen and transfer students who wish to enter any language course above the 111 level will take a placement test in order to determine their eligibility to pursue advanced courses. This test will be administered by the Foreign Languages faculty.

All prospective English graduates will be required to take a comprehensive examination prior to graduation. Dates and times of administration will be announced by the Department. All majors will be required to write and defend a senior thesis or complete a senior project appropriate to their concentration.

Note:

Descriptions of general education humanities courses (HUM 210 and HUM 211) are listed at the end of the course offerings for music

B.A. in English

CURRICULUM

FIRST YEAR

COURSE	COURSE TITLE	HOURS
BIO 100	Biological Science	3
BIO 100L	Biological Science Lab or Physical Science Lab	1
SCI 101L	Introduction to Physical Science	3
CSC 150	Computer Concepts and Application	3
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
FRN 111	Elementary French I or SPN 111	3
FRN 112	Elementary French II or SPN 112	3
HIS 101	History of World Societies, Part 1 or HIS 101, HIS 102 or HIS 103	3
PED 100	Fundamentals of Fitness for Life	1
SEM 101/102	Spartan Seminars 101 and 102	2
TOTAL HOURS REQUIRED		30

SECOND YEAR

COURSE	COURSE TITLE	HOURS
XXX XXX	Unrestricted elective	2
ENG 207	Introduction to World Literature	3
XXX XXX	Restricted English elective	3
ENG 286	Advanced Composition	3
FRN 211	Intermediate French I or SPN 211	3
FRN 212	Intermediate French II or SPN 212	3
ENG 283	African-American Literature to 1940	3
MTH 103	Mathematics in General Education	3
ENG 285	Public Speaking	3
XXX XXX	Unrestricted elective (for minor)	3
SEM 201	Spartan Seminar 201	1
TOTAL HOURS REQUIRED		30

THIRD YEAR

COURSE	COURSE TITLE	HOURS
HIS 335	African-American History or HIS 336	3
ENG 315	Survey of English Literature I	3
ENG 316	Survey of English Literature II	3
ENG 341	American Literature I	3
ENG 342	American Literature II	3
ENG 350	Studies in Literary Genres	3
ENG 383	African-American Literature	3
XXX XXX	Restricted English elective	3
XXX XXX	Restricted English elective	3
XXX XXX	Unrestricted Elective	3
TOTAL HOURS REQUIRED		30

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
XXX XXX	Restricted English Elective	3
XXX XXX	Restricted English Elective	3
ENG 406	Literary Criticism & Theory	3
ENG 450	Research Seminar & Senior Thesis	3
XXX XXX	Restricted English elective	3
XXX XXX	Restricted English elective	3
XXX XXX	Unrestricted Electives (for minor)	12
TOTAL HOURS REQUIRED		30

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	65
Electives	15
Other Requirements	0
TOTAL DEGREE HOURS REQUIRED	120

B.A. in English: Secondary Endorsement Concentration**CURRICULUM****FIRST YEAR**

COURSE	COURSE TITLE	HOURS
BIO 100	Biological Science	3
BIO 100L	Biological Science Lab or Physical Science Lab	1
SCI 101L	Introduction to Physical Science	3
CSC 150	Computer Concepts and Application	3
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
FRN 111	Elementary French I or SPN 111	3
FRN 112	Elementary French II or SPN 112	3
HIS 101	History of World Societies, Part 1 or HIS 101, HIS 102 or HIS 103	3
PED 100	Fundamentals of Fitness for Life	1
SEM 101/102	Spartan Seminars 101 and 102	2
TOTAL HOURS REQUIRED		30

SECOND YEAR

COURSE	COURSE TITLE	HOURS
XXX XXX	Unrestricted elective	2
ENG 207	Introduction to World Literature	3
EDU 201	Foundations of Education	3
ENG 286	Advanced Composition	3
FRN 211	Intermediate French I or SPN 211	3
FRN 212	Intermediate French II or SPN 212	3
ENG 283	African-American Literature to 1940	3
MTH 103	Mathematics in General Education	3
ENG 285	Public Speaking	3
XXX XXX	Unrestricted elective	3
SEM 201	Spartan Seminar 201	1
TOTAL HOURS REQUIRED		30

THIRD YEAR

COURSE	COURSE TITLE	HOURS
HIS 335	African-American History or HIS 336	3
ENG 315	Survey of English Literature I	3
ENG 316	Survey of English Literature II	3
ENG 341	American Literature I	3
ENG 342	American Literature II	3
ENG 350	Seminar Literacy Analysis and Interpretation	3
ENG 383	African-American Literature	3
EDU 381	Classroom Behavior & Management	3
SED 387	Curriculum and Instructional Procedures	3
ENG 454	Young Adult Literature	3
TOTAL HOURS REQUIRED		30

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
ENG 406	Literary Criticism & Theory	3
SED 405	Reading in the Content Area	3
ENG 430	Romantic Writers	3
EDU 486	Human Growth & Development	3
SED 499	Directed Student Teaching in Secondary Schools	12
XXX XXX	Unrestricted elective	3
XXX XXX	Unrestricted elective	3
TOTAL HOURS REQUIRED		30

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	69
Free Electives	11
TOTAL DEGREE HOURS REQUIRED	120

Teacher Licensure Endorsement in English and Foreign Language

Students wishing to pursue a career in teaching must take the following steps:

1. Take ENG 101ED, ENG 102ED, and pass Praxis I freshman year. Then, confer with an academic advisor in the Department of Secondary Education and School Leadership about requirements for admission to the Teacher Education Program.
2. Complete requirements for admission to the Teacher Education Program.
3. Take the following professional education courses, totaling 27 credit hours:

COURSE	COURSE TITLE	HOURS
EDU 201	Foundations of	3
EDU 381	Classroom Behavior and Management	3
EDU 486	Human Growth and	3
SED 405	Reading in the Content Area	3
SED 387	Classroom and Instructional Procedures in Teaching English in the Secondary School	3
SED 499	Directed Teaching	12
TOTAL HOURS REQUIRED		27

Minor in English

For an English minor, non-English majors should take 9 credit hours of CORE courses and 9 credit hours of other English courses.

The Department recommends that a student seeking an English minor choose *ENG 207: Introduction to World Literature* in the Humanities category and *ENG 383: African- American Literature* in the Cultural Elective category under the General Education Requirements in the Catalog.

The 18 credit hours for the minor in English should be distributed as follows:

Minor in English

CORE COURSES

COURSE	COURSE TITLE	HOURS
ENG 210	Practical English Grammar or	3
ENG 341	Survey of American Literature I or ENG 342 Survey of American Literature II	3
ENG 306	Introduction to Literary Criticism	3
TOTAL HOURS REQUIRED		9

ELECTIVES

COURSE	COURSE TITLE	HOURS
ENG 3XX/ ENG 4XX	Electives at the 300-400 level	9
TOTAL HOURS REQUIRED		9

TOTAL DEGREE HOURS REQUIRED	18
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Minor in Spanish

CORE COURSES

COURSE	COURSE TITLE	HOURS
SPN 215	Intermediate Conversation	3
SPN 454	Advanced Grammar Composition	3
SPN 220	Spanish Civilization or SPN	3
TOTAL HOURS REQUIRED		9

ELECTIVES

COURSE	COURSE TITLE	HOURS
SPN 3XX/ SPN 4XX	Electives at the 300-400 level	9
TOTAL HOURS REQUIRED		9

TOTAL DEGREE HOURS REQUIRED	18
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DEPARTMENT OF HISTORY AND INTERDISCIPLINARY STUDIES

Dr. E. Arnold Modlin, Jr.
Department Head
(757) 823 - 8198

HISTORY DIVISION

The Division of History provides students with a critical intellectual framework for assessing and understanding human affairs. The Division offers a broad spectrum of history and geography courses leading to the Bachelor of Arts degree in history. Curriculum sequences are available in History (General), History (Online), History-Social Science (Pre-Licensure), and History-Military Science (Army and Navy).

The general objectives of the Division are as follows:

1. To provide its students with a thorough grounding in the past, as seen from both social scientific and humanistic perspectives, and in the nature of history and historical analysis. The Division prepares undergraduates for a variety of career options which rely upon a sound liberal arts education in both academic and professional fields. The study of history prepares students for a variety of paths, including but not limited to those in fields such as law, education, religion, journalism and media ventures, business and government service.
 - a. To accomplish its objectives, the Division offers five programs leading to the B.A. In addition, the Division offers one certificate program in African and African Diaspora History.
 - b. The skills necessary for the study of history are highly practical and prized by graduate schools, professional schools, and employers. NSU history majors have moved on to careers in business, law, government service, education, and social work.
2. To articulate to potential employers the value of a liberal arts education, history trains students to be creative and flexible problem solvers who can make sound judgments and communicate their ideas effectively.
3. Upon completion of the required history and geography courses, students should be able to identify and discuss the major civilizations that have shaped human behavior over time and space. They should be able to compare and assess the principal values and ideologies of major world civilizations and contextualize current events.
4. Upon completion of the required degree in history-social sciences, students will have a firm grasp of American and global history with a depth and range that covers the major global regions and societies, and of the processes that have increasingly connected them worldwide.
5. Upon completion of the Division's required courses in addition to the general core's English courses, students should be able to write in clear prose, including analyzing and evaluating primary source documents as well as secondary sources. They should also be able to identify, define, and defend a point of view.
6. Upon completion of the Division's required courses, students will have a working knowledge of the world's cultural diversity. The Division's emphasis on appreciating diversity is designed "to equip students with the capability to become productive citizens who continuously contribute to a global and rapidly changing society," as per the University's mission statement.

Accordingly, the Division's primary learning outcomes for its majors to acquire are:

1. To trace and analyze change over time.
2. To compare and contrast cultures and traditions from the same time period.
3. To write and argue clearly with a thesis statement.
4. To appreciate the contributions of African-Americans to American history.
5. To appreciate the contributions of the African diaspora to world history.

The divisional history degree program is designed to prepare students for careers in law, teaching, public relations, journalism, foreign services, business, and other professions.

ASSESSMENT

In order to monitor and evaluate students' academic progress at Norfolk State University in accordance with state mandates, the University has developed an assessment program. All History majors are required to participate in this program as designed and administered by the Division.

It is the policy of the History Division that History majors take the required 100-level and 200-level classes (HIS 100, HIS 101, HIS 102, HIS 103, and HIS 205) prior to registering for any upper-level (HIS 300+) classes. In order to take upper-level classes before the completion of the 100-level surveys, students must receive permission from the program coordinator. HIS 205, Introduction to History, should be taken by all History majors and minors after the third semester of admission to the University and/or after the student has taken the basic American history sequence of HIS 102 and HIS 103.

Each academic year, students' papers from HIS 205, HIS 305 and HIS 497 are reviewed by the faculty for development of writing, research and critical thinking skills. Students whose papers do not demonstrate competency in these areas must retake HIS 497.

For further information, contact the History Division: Phone (757) 823 8198 or e-mail komiller@nsu.edu or elbennett@nsu.edu.

B.A. in History**CURRICULUM**

NOTE: Students in this curriculum may tailor their electives to include an emphasis on African and African Diaspora Studies. See corresponding certificate program below.

FIRST YEAR

COURSE	COURSE TITLE	HOURS
SEM 101/102	Spartan Seminars 101 and 102	2
BIO 100	Biological Science	3
BIO 100L	Biological Science Lab	1
CSC 150	Computer Concepts	3
ENG 101	College English I	3
ENG 102	College English II	3
HIS 100	History of World Societies I	3
HIS 101	History of World Societies II	3
HED 100	Personal and Community	2
HIS 102	Survey of U.S. History	3
HIS 103	United States History 1865 to the Present	3
MTH 103	Contemporary Mathematics	3
PED 100	Fundamentals of Fitness for Life	1
TOTAL HOURS REQUIRED		33

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
FL 111	Foreign Language 111 or INT 375	3
FL 112	Foreign Language 112 or ENG 214	3
HIS 335	African American History or HIS 336, HIS 370 or HIS 371	3
HIS 205	Introduction to History	3
GEO 130	Principles of Geography	3
ENG 383	African American Culture or MUS 234 or FIA 370	3
SCI 101	Introduction to Physical Science	3
POS 100	American National Government or BUS 175, ECN 200 or SOC 101	3
ENG 285	Public Speaking	3
ENG 207	Literature of the Western World or FIA 201 or MUS 301	3
TOTAL HOURS REQUIRED		31

Twenty-one semester hours of History at the 300-400 level are required for a major in the Department, with a minimum of six credit hours of non-Western history.

THIRD YEAR

COURSE	COURSE TITLE	HOUR
HIS 305	3 R's of History	3
GEO XXX	Geography Elective	3
HIS 313	US History or HIS 314, 315, 328, 337 or 364)	6
HIS 310	Atlantic World History or HIS 320, 346, 350	6
HIS XXX	History Elective 300-400 level	3
CSC 200	Skills based elective or GEO 360, ENG 410, POS 3XX	3
XXX XXX	Elective	2
XXX XXX	Elective	3
TOTAL HOURS REQUIRED		29

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
XXX XXX	Elective	3
HIS 497	Historical Research	3
HIS XXX	History Electives	9
HIS 494	Internship Modern	3
GEO 430	Geography of Slavery	3
XXX XXX	Geography elective	3
TOTAL HOURS REQUIRED		27

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	57
Electives	23
Other Requirements	0
TOTAL DEGREE HOURS REQUIRED	120

B.A. in History - Online**CURRICULUM**

NOTE: Students in this curriculum must comply with all School of and basic knowledge of computers and internet usage. See Extended Learning policies, including those on computer access <https://www.nsu.edu/sel/>

FIRST YEAR

COURSE	COURSE TITLE	HOURS
SEM 101/102	Spartan Seminars 101 and 102	2
BIO 100	Biological Science	3
BIO 100L	Biological Science Lab	1
CSC 150	Computer Concepts	3
ENG 101	College English I	3
ENG 102	College English II	3
HIS 100	History of World Societies I	3
HIS 101	History of World Societies II	3
HED 100	Personal and Community Health	2
HIS 102	Survey of U.S. History	3
HIS 103	United States History 1865 to the Present	3
MTH 103	Contemporary Mathematics	3
PED 100	Fundamentals of Fitness for Life	1
TOTAL HOURS REQUIRED		33

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
FL 111	Foreign Language 111 or INT 375	3
FL 112	Foreign Language 112 or ENG 214	3
HIS 335	African American History or HIS 336, HIS 370 or HIS 371	3
HIS 205	Introduction to History	3
GEO 130	Principles of Geography	3
ENG 383	African American Culture or MUS 234 or FIA 370	3
SCI 101	Introduction to Physical Science	3
POS 100	American National Government or BUS 175, ECN 200 or SOC 101	3
ENG 285	Public Speaking	3
ENG 207	Literature of the Western World or FIA 201 or MUS 301	3
TOTAL HOURS REQUIRED		31

Twenty-one semester hours of History at the 300-400 level are required for a major in the Department, with a minimum of six credit hours of non-Western history.

THIRD YEAR

COURSE	COURSE TITLE	HOUR
HIS 305	3 R's of History	3
GEO XXX	Geography Elective	3
HIS 313	US History or HIS 314, 315, 328, 337 or 364)	6
HIS 310	Atlantic World History or HIS 320, 346, 350	6
HIS XXX	History Elective 300-400 level	3
CSC 200	Skills based elective or GEO 360, ENG 410, POS 3XX	3
XXX XXX	Elective	2
XXX XXX	Elective	3
TOTAL HOURS REQUIRED		29

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
XXX XXX	Elective	3
HIS 497	Historical Research	3
HIS XXX	History Electives	9
HIS 494	Internship Modern	3
GEO 430	Geography of Slavery	3
XXX XXX	Geography elective	3
TOTAL HOURS REQUIRED		27

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	57
Electives	23
Other Requirements	0
TOTAL DEGREE HOURS REQUIRED	120

B.A. in History – Teacher Licensure Endorsement in History and Social Science**CURRICULUM****FIRST YEAR**

COURSE	COURSE TITLE	HOURS
SEM 101/102	Spartan Seminars 101 and 102	2
BIO 100	Biological Science	3
BIO 100L	Biological Science Lab	1
SCI 101	Physical Science	3
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
HIS 102	United States History to 1865	3
HIS 103	United States History 1865 to the Present	3
MTH 103	Contemporary Mathematics	3
PED 100	Fundamentals of Fitness for Life	1
CSC 150	Computer Concepts & Applications	3
TOTAL HOURS REQUIRED		30

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
POS 100	American Government	3
GEO 130	Principles of Geography	3
HIS 100	History of World Societies, Part 1	3
HIS 101	History of World Societies, Part 2	3
HIS 205	Introduction to History	3
FIA 201	Basic Art Appreciation or MUS 301 or Foreign Language 111 or 112	3
ENG 285	Public Speaking	3
EDU 201	Foundations of Education	3
POS 231	American State and Local Government	3
ECN 211	Principles of Economics	3
TOTAL HOURS REQUIRED		31

THIRD YEAR

COURSE	COURSE TITLE	HOURS
POS 360	International Relations	3
ECN 212	Principles of Economics	3
EDU 381	Classroom Behavior and Management	3
ENG 286	Advanced Composition or ENG 203 or ENG 207 or ENG 303	3
HIS 3XX	HIS 335 or HIS 336 or HIS 370 or HIS 371	3
HIS 328	History of Virginia	3
HIS XXX	History Elective at the 300-400 level	3
SED 390	Curriculum and Instructional Procedures in Secondary Social Studies	3
SED 420	Educational Technology	3
POS XXX	Political Science Elective	3
GEO XXX	Geography Elective at 300-400 level	3
TOTAL HOURS REQUIRED		33

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
ENG 383	African-American Literature	3
GEO XXX	Geography Elective at 300-400 level	3
HIS 497	Historical Research	3
POS 430	Political Theory or POS 431 Modern Theory	3
POS XXX	Political Science Elective	3
SED 405	Reading in the Content Area	3
SED 486	Educational Psychology or PSY 228 Developmental Psychology	3
SED 499	Supervised Classroom Experience/Directed Teaching	12
TOTAL HOURS REQUIRED		33

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	43
Major Requirements	39
Electives	23
Other Requirements	22
TOTAL DEGREE HOURS REQUIRED	127

ENDORSEMENT REQUIREMENTS

The Division requires 27 hours in history including 15 hours in lower level U.S. history, world civilization, and introduction to history courses, as well as 12 hours of advanced history courses (300-400 level) with a minimum of 6 credit hours of non-Western courses. The candidate must also complete 18 hours of professional education courses and 12 hours of student teaching for certification in secondary education.

A minimum grade of "C" is required in all history and geography, political science, economics, professional education, IUL 101, and English 101, 102, and 203 courses. These requirements apply to all areas of endorsement.

**Students must pass the PRAXIS I Test prior to applying for admission to the School of Education and enrollment in upper level professional education courses. SED 233, while not required, may be taken before taking the PRAXIS Test.*

Prior to enrolling for SED 499, students must pass the PRAXIS II Test for Social Studies and must give the Division a hard copy of both their overall scores and content-specific sub-scores from this examination. Failure to pass the content areas of the Praxis II Test and to give the Division a hard copy of those Praxis II scores and sub-scores for verification will prevent the student from graduating.

***Must be taken prior to directed teaching.*

To be endorsed as a teacher in Social Studies, the applicant shall complete 30 hours of education courses and 42 hours of Social Studies courses, including 18 upper-level semester hours in History, 18 semester hours in Political Science, 9 semester hours in Geography, and 6 semester hours in Economics. Within the endorsement, the applicant wishing to teach a course in Cultural Anthropology and Sociology or Social Psychology must complete a minimum of 6 semester hours in these disciplines.

An applicant seeking a separate endorsement in history must complete 24 semester hours: American history (including Virginia history), European history, World history, and contemporary affairs (State Department of Education Guidelines).

Teacher Licensure Endorsement in History and Social Science – Early Childhood

Students must fulfill the degree requirements for the History and Social Science Curriculum and take the following courses in Early Childhood Education and professional education (18 semester hours) as well as student teaching (12 semester hours):

COURSE	COURSE TITLE
ECE 374	Developmental Psychology
ECE 460	Curriculum and Instruction in Preschool and Kindergarten
ECE 461	Curriculum and Instruction in Early Primary
ECE 484	Teaching Reading in Early Childhood Education
ECE 499	Directed Teaching
EDU 201	Foundations of Education
SED 233	Seminar in Assessment and Evaluation

Teacher Licensure Endorsement in History and Social Science -- Special Education

Students must fulfill the degree requirements for the History and Social Science curriculum and take the prescribed curriculum (24 semester hours) in Special Education and professional education (see Department of Special Education) as well as 12 semester hours of student teaching.

COURSE	COURSE TITLE
CSSE 423	Rehabilitation Technical of Exceptional Children
EDU 201	Foundations of Education
SED 233	Seminar in Assessment and Evaluation
SED 405	Reading in the Content Area
SED 486	Educational Psychology and Behavior
SPE 310	Characteristics of Exceptional Students
SPE 371	Aspects for Handicapping Conditions
SPE 440	Curricula Adjustment for Exceptional Students
SPE 490	Assessment of Exceptional Students
SPE 499	Supervised Classroom Experience/ Directed Children

B.A. in History -- Military Science (NAVY)**CURRICULUM**

For the History-Military Science (Navy) Sequence, 36 hours in history are required, of which 21 must be at the 300 or 400 level, with a minimum of 6 credit hours of non-Western history. Twenty- six credit hours in Military Science are required.

FIRST YEAR

COURSE	COURSE TITLE	HOURS
SEM 101/102	Spartan Seminars 101 and 102	2
BIO 100	Biological Science	3
ENG 101	College English I	3
ENG 102	College English II	3
HIS 102	United States History to 1865	3
HIS 103	United States History 1865 to the Present	3
NSC 111	Naval Laboratory	1
NSC 112	Naval Laboratory II	1
NSC 101	Intro to Naval Science and Sea Power & Maritime	2
NSC 102	Intro to Naval Science and Sea Power & Maritime	3
MTH 184	Calculus I	4
PHY 160	Physics I	4
TOTAL HOURS REQUIRED		32

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
HIS 205	Introduction to History	3
ENG 285	Public Speaking	3
HIS 100	History of World Societies, Part 1	3
HIS 101	History of World Societies, Part 2	3
POS 100	American Government	3
NSC 201	Naval Ship Systems I (Engineering)	3
NSC 202	Naval Ship Systems II (Weapons)	3
ENG 207	World Literature	3
NSC 211	Naval Laboratory III	1
NSC 212	Naval Laboratory IV	1
PHY 161	Physics II	4
TOTAL HOURS REQUIRED		31

THIRD YEAR

COURSE	COURSE TITLE	HOURS
CSC XXX	CSC 150 or CSC 200 Computer Literacy	3
HIS 305	3 Rs of History	3
HIS 380	American Military History	3
HIS 3XX	History Electives (300-400 level, Non-Western)	7
HIS 4XX		
NSC 301	Navigation & Naval Operations I	3
NSC 302	Navigation & Naval Operations II	3
NSC 311	Naval Laboratory V	1
NSC 312	Naval Laboratory VI	1
FL XXX	Foreign Language	3
MTH 251	Calculus II	4
TOTAL HOURS REQUIRED		31

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
HIS 3XX	African American History or HIS 335/336 or HIS 370/371 African History and Culture	3
HIS 497	Historical Research	3
HIS 439	Recent American History from 1932 to Present	3
GEO 130	Principles of Geography	3
HIS XXX	History Electives (300-400)	3
NSC 401	Leadership and Management I	3
NSC 402	Leadership and Management II	3
NSC 411	Naval Laboratory VII	3
NSC 412	Naval Laboratory VIII	3
TOTAL HOURS REQUIRED		26

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	54
Electives	0
Other Requirements	26
TOTAL DEGREE HOURS REQUIRED	120

Minor in History

For those students in other majors seeking a minor in history, the following program is offered:

COURSE	COURSE TITLE	HOURS
HIS 205	Introduction to History	3
HIS 3XX/ HIS 4XX	History Electives at the 300-400 level	12
TOTAL HOURS REQUIRED		15
TOTAL DEGREE HOURS REQUIRED		18

Certificate Program in African and African Diasporan Studies

This certificate program is designed for those students who are interested in the study of the cultures of people of African descent. The histories of the Caribbean, Latin America, Africa, and North America are its key elements. Participating faculty will require students to engage in multidisciplinary approaches in studying the formation of racial and ethnic identities, among other topics, in African and African Diasporan cultures. The program will underscore the connection between the formation of those identities and their national and international political, cultural, and economic contexts.

PREREQUISITES

COURSE	COURSE TITLE	HOURS
HIS 335	African American History I, Part 1	3
HIS 336	African American History II, Part 2	3

REQUIRED COURSES

COURSE	COURSE TITLE	HOURS
HIS 490A	Introduction to African and African Diasporan Studies	3
HIS 370	African History and Culture I	3

ELECTIVES

(Select one from each grouping)

GROUP 1

COURSE	COURSE TITLE
HIS 371	African History and Culture II
HIS 490E	Major Themes in Contemporary Africa

GROUP 2

COURSE	COURSE TITLE
HIS 365	Caribbean and Latin American History
HIS 446	Colonial Latin American
HIS 448	Slavery in the Atlantic Basin

GROUP 3

COURSE	COURSE TITLE
ENG 383	African American Literature
ENG 384	African American Literature: Poetry
ENG 385	African American Literature: Fiction
ENG 432	African and African American Novel
ENG 433	African and African American Biography and Autobiography
ENG 440	Seminar in African and African American Literature
ENG 458	Southern Black Female Aesthetic

GROUP 4

COURSE	COURSE TITLE
DRM 219	African American Drama
FIA 370	African American Art
MUS 234	African American Music
MUS 335	Jazz Literature and Criticism
MUS 336	Jazz History

GROUP 5

COURSE	COURSE TITLE
GEO 337	Geography of Africa
REL 330	History and Theology of the Black Church
JRN 299	African American and Mass Media
POS 315 POS 463	African American Politics Politics of African Nations
PSY 340	Psychology of the African American
SOC 237	Racial and Cultural Minorities
INT 412	Contemporary Globalization

DEPARTMENT OF HISTORY AND INTERDISCIPLINARY STUDIES

INTERDISCIPLINARY STUDIES

Dr. E. Arnold Modlin, Jr.
Department Head Division
(757) 823-9457

A Bachelor of Science degree in Interdisciplinary Studies is obtained through this program. It is designed to provide a strong liberal arts foundation that enables students to develop the skills to think critically and holistically. Interdisciplinary Studies is a curriculum approach that applies methodology and language from more than one discipline to examine a central theme, issue, problem, topic, or experience. It offers a flexible curriculum that maximizes students' experience; yet, it is a rigorous critical thinking, research and writing intensive program that focuses on developing and applying tangible and transferable life-long skills.

CORE COURSES

(Courses to be completed with grade of "C" or better)

CORE COURSES

COURSE	COURSE TITLE	HOURS
INT 210	Introduction to Interdisciplinary Studies	3
INT 311	Principles of Interdisciplinary Studies	3
INT 360	Foundations of Research in Interdisciplinary Studies	3
INT 322	Approaches to Critical Analysis	3
INT 375	Language and Society	3
INT 411 or INT 412	Ideas & Their Influence or Contemporary Globalization	3
INT 470	Senior Seminar	3

OPTIONAL CORE COURSES

COURSE	COURSE TITLE	HOURS
INT 399	Special Topics in INT	3
INT 475	Interdisciplinary Studies Internship	3
INT 470T, 477SL, 477WL	Senior Thesis	3

NOTE: INT Core courses are to be taken in numerical order. INT 308 is the prerequisite for ALL INT courses, except INT 412.

OPTION: (APPROVAL OF DEPARTMENT HEAD AND SCHOOL DEAN)

Students are encouraged to explore new relationships among established areas of knowledge and to take an active part in designing their personalized curricula. To this end, it is possible for students who meet guidelines established by the Department to satisfy some of the course requirements via transfer credit or extensive coursework taken previously.

In all such cases, approval of the Department Head and the College Dean are required.

ADDITIONAL INFORMATION

Interdisciplinary Studies courses (INT 308, INT 322, INT 360, INT 375, INT 411, INT 412, and INT 470) **cannot be substituted or transferred in;** ALL CORE INT classes must be taken at NSU for the Bachelor of Science Degree.

Currently enrolled NSU students must have a minimum GPA of 2.0 in order to transfer into the Interdisciplinary Studies Program; exceptions to the rule are at the discretion of the Department Head.

In order to demonstrate proficiency in concentration areas, students are to take a combined total of at least 30 hours (within the two/three concentration areas at the 300-400 level (considered upper levels).

B.S. in Interdisciplinary Studies**CURRICULUM****FIRST YEAR**

COURSE	COURSE TITLE	HOURS
BIO, PHY, SCI 101	Biological Science* or BIO 110	3
BIO XXXL	Biological Science Lab* or SCI 100L	1
CSC 150	Computer Concepts & Applications* or CLM 165, CSC 169, CIT 150, FIA 280 or TED 170	3
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal & Community Health	2
SOCIAL SCIENCE	SOC 101, SOC 110, HIS 100, HIS 101, HIS 102, HIS 103, BUS 175, ECN 200	3
HUMANITIES	HUM 210, HUM 211, ENG 207, FIA 201, MUS 301	3
MTH 103 OR HIGHER	Contemporary Mathematics or MTH 105, MTH 151 or MTH 153	3
PED 100	Fundamentals of Fitness for Life*	1
XXX XXX	Free Electives	2
SEM 101/102	Spartan Seminars 101 & 102	2
TOTAL HOURS REQUIRED		29

SECOND YEAR

COURSE	COURSE TITLE	HOURS
XXX XXX	ANY NATURAL SCIENCE	3
CSC 200	Advanced Computer Concepts*	3
XXX XXX	Cultural Perspective A*	3
ENG 285	Public Speaking	3
XXX XXX	Cultural Perspective B	3
XXX XXX	Concentration I Courses	15
SEM 201	Spartan Seminar 201	1
TOTAL HOURS REQUIRED		31

THIRD YEAR

COURSE	COURSE TITLE	HOURS
INT 308	Introduction to Interdisciplinary Studies	3
INT 322	Approaches to Critical Analysis	3
INT 360	Foundations of Research in Interdisciplinary Studies	3
INT 375	Language and Society	3
XXX XXX	Concentration II Courses	15
XXX XXX	Cultural Elective (300-400 level)	3
TOTAL HOURS REQUIRED		30

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
INT 411 or INT 412	Ideas and their Influences	3
INT 470	Contemporary Globalization	3
INT 470	Advanced Interdisciplinary Studies Seminar	3
XXX XXX	INT 399, INT 477, or Upper Level	6
XXX XXX	Free Electives (300-400 level)	18
TOTAL HOURS REQUIRED		30

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements (including concentrations)	54
Electives	23
Technology Supplement	3
TOTAL DEGREE HOURS REQUIRED	120

B.S. in Interdisciplinary Studies -- Online**CURRICULUM****FIRST YEAR**

COURSE	COURSE TITLE	HOURS
BIO, PHY, SCI 101	Biological Science* or BIO 110	3
BIO XXXL	Biological Science Lab* or SCI 100L	1
CSC 150	Computer Concepts & Applications* or CLM 165, CSC 169, CIT 150, FIA 280 or TED 170	3
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
SOCIAL SCIENCE	SOC 101, SOC 110, HIS 100, HIS 101, HIS 102, HIS 103, BUS 175, ECN 200	3
HUMANITIES	HUM 210, HUM 211, E NG 207, FIA 201, MUS 301	3
MTH 103 OR HIGHER	Contemporary Mathematics or MTH 105, MTH 151 or MTH 153	3
PED 100	Fundamentals of Fitness for Life*	1
XXX XXX	Free Electives	2
SEM 101/102	Spartan Seminars 101 & 102	2
TOTAL HOURS REQUIRED		29

SECOND YEAR

COURSE	COURSE TITLE	HOURS
XXX XXX	Any Natural Science *	3
CSC 200	Advanced Computer Concepts*	3
XXX XXX	Cultural Perspective A*	3
ENG 285	Public Speaking	3
XXX XXX	Cultural Perspective B	3
XXX XXX	Concentration I Courses	12
INT 210	Intro.to Interdisciplinary Studies	3
SEM 201	Spartan Seminar 201	1
TOTAL HOURS REQUIRED		31

(*) Substitutions approved by College Dean and Department Chair may apply.

THIRD YEAR

COURSE	COURSE TITLE	HOURS
INT 308	Introduction to Interdisciplinary Studies	3
INT 322	Approaches to Critical Analysis	3
INT 360	Foundations of Research in Interdisciplinary Studies	3
INT 375	Language and Society	3
XXX XXX	Concentration II Courses	15
XXX XXX	Free Elective (300-400 level)	3
TOTAL HOURS REQUIRED		30

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
INT 411 OR INT 412	Ideas and their Influences or Contemporary Globalization	3
XXX XXX	Concentration III Courses	15
INT 470	Senior Seminar	3
XXX XXX	Free Electives (300-400 level)	9
TOTAL HOURS REQUIRED		30

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements includes INT Core Courses and other courses in concentrations	63
Electives	17
TOTAL DEGREE HOURS REQUIRED	120

B.S. in Interdisciplinary Studies -- Military**CURRICULUM****FIRST YEAR**

COURSE	COURSE TITLE	HOURS
BIO, PHY, SCI 101	Biological Science*	3
BIO XXXL	Biological Science Lab* or SCI 100L	1
CSC 150	Computer Concepts and Applications* or CLM 165, CSC 169, CIT 150, FIA 280 or TED 170	3
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal & Community Health	2
SOCIAL SCIENCE	SOC 101, SOC 110, HIS 100, HIS 101, HIS 102, HIS 103, BUS 175, ECN 200	3
HUMANITIES	HUM 210, HUM 211, ENG 207, FIA 201, MUS 301	3
MTH 103	Contemporary Mathematics or MTH 105, MTH 151, MTH 153	3
PED 100	Fundamentals of Fitness for Life*	1
XXX XXX	Free Elective	2
SEM 101/	Spartan Seminars 101 & 102	2
TOTAL HOURS REQUIRED		29

SECOND YEAR

COURSE	COURSE TITLE	HOURS
XXX 100	Any Natural Science*	3
CSC 200	Advanced Computer Concepts	3
XXX XXX	Cultural Perspective A*	3
ENG 285	Public Speaking	3
XXX XXX	Concentration I Courses	15
XXX XXX	Cultural Perspective B	3
TOTAL HOURS REQUIRED		30

(*) Substitutions approved by College Dean and Department
Chair may apply.

(**) Waived for military, pending documentation.

THIRD YEAR

COURSE	COURSE TITLE	HOURS
INT 308	Introduction to Interdisciplinary Studies	3
INT 322	Approaches to Critical Analysis	3
INT 360	Foundations of Research in Interdisciplinary Studies	3
INT 375	Language and Society	3
XXX XXX	Concentration II Courses	15
XXX XXX	Free Electives (300-400 level)	3
TOTAL HOURS REQUIRED		30

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
INT 411 OR INT 412	Ideas and Their Influences or Contemporary Globalization	3
XXX XXX	Concentration III Courses	15
INT 470	Senior Seminar	3
XXX XXX	Free Electives (300-400 level)	9
TOTAL HOURS REQUIRED		30

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements includes INT	
Core Courses and other courses in concentrations	63
Electives	17
TOTAL DEGREE HOURS REQUIRED	120

B.S. in Interdisciplinary Studies—3 Year Degree**CURRICULUM****FIRST YEAR**

COURSE	COURSE TITLE	HOURS
BIO, PHY, SCI 101	Biological Science* or BIO 110	3
BIO XXXL	or SCI 101L	1
CSC 150	Computer Concepts & Applications* or CLM 165, CSC 169, CIT 150, FIA 280 or TED 170	3
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal & Community Health	2
SOCIAL SCIENCE	SOC 101, SOC 110, HIS 100, HIS 101, HIS 102, HIS 103, BUS 175, ECN 200	3
HUMANITIES	HUM 210, HUM 211, E NG 207, FIA 201, MUS 301	3
MTH 103 OR HIGHER	Contemporary Mathematics or MTH 105, MTH 151, MTH 153	3
PED 100	Fundamentals of Fitness for Life*	1
XXX XXX	Free Electives	2
SEM 101/102	Spartan Seminars 101 & 102	2
TOTAL HOURS REQUIRED		29

SUMMER

COURSE	COURSE TITLE	HOURS
ENG 285	Public Speaking	3
XXX XXX	Cultural Perspective*	3
TOTAL HOURS REQUIRED		6

(*) Substitutions approved by College Dean and Department Chair may apply.

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements (including concentrations)	54
Electives	23
Technology Supplement	3
TOTAL DEGREE HOURS REQUIRED	120

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SCI 101	Introduction to Physical Science	3
CSC 200	Advance Computer Concepts	3
XXX XXX	Cultural Perspective	3
XXX XXX	Concentrations I & II	21
INT 308	Introduction to Interdisciplinary Studies	3
INT 322	Approaches to Critical Analysis	3
TOTAL HOURS REQUIRED		36

SUMMER

COURSE	COURSE TITLE	HOURS
INT 360	Foundations of Research in Interdisciplinary Studies	3
INT 375	Language and Society	3
XXX XXX	Elective	3
TOTAL HOURS REQUIRED		9

THIRD YEAR

COURSE	COURSE TITLE	HOURS
INT 411	Ideas and their Influences	3
INT 412	Contemporary Globalization	3
INT 470	Advanced Interdisciplinary Studies Seminar	3
XXX XXX	INT 399, INT 477, or Upper Level	3
XXX XXX	Concentration II (300-400 level)	9
XXX XXX	Free Electives (300 – 400 level)	15
TOTAL HOURS REQUIRED		36

Minor in Interdisciplinary Studies

Eighteen (18) credit hours can be taken by students who want to minor in Interdisciplinary Studies. Courses must be passed with a grade of "C" or higher.

COURSE	COURSE TITLE	HOURS
INT 210	Introduction to Interdisciplinary Studies	3
INT 311	Principles of Interdisciplinary Studies	3
	Approaches to Critical Analysis	3
INT 360	Ideas and Their Influences	3
INT 375	Language and Society	3
INT 470	Senior Seminar	3
TOTAL HOURS REQUIRED		18

NSU ONLINE

The Department of Interdisciplinary Studies offers all core courses online, face to face, and in accelerated (8 week) sessions; as possible.

Student Requirements

- Students should enroll at Norfolk State University (NSU), or any other college that is a member of the Tidewater consortium, and register for an NSU course.
- Students must have access to a computer (at home, work, school, etc.), Internet connection, and a web browser (Netscape Communicator 4.7 or higher or Microsoft Explorer 5.5 or higher). For further information on the minimum computer requirements go to e-Learning at the NSU website, click on Student Support, and then click on "What are the minimum system requirements?"
- Upon enrollment, students receive a Norfolk State e-mail account. Students must access their Norfolk State e-mail accounts by doing the following:

Go to the NSU web-site (www.nsu.edu).

Click on E-Learning; then click on Student Support; click on e-mail login information.
- Students registered for online classes should use their Blackboard (Bb) login and access Blackboard. Once in Blackboard, the students should transmit an e-mail to the class instructor to ensure that they can access the class and that their e-mail is functioning properly.
- E-Learning courses require students to possess basic computer skills. Students should be comfortable using a computer to word process documents, surf the Internet via web browser, send and receive e-mail, and to send and receive attachments.
- For the most up-to-date information on e-learning courses, instructor e-mail addresses, and qualities that contribute to a successful learning experience, contact the School of Extended Learning.

B.S. in Interdisciplinary Studies Reclamation

Program at Virginia Beach Higher Education

Center

(Please see NSU Website,
<http://www.nsu.edu/vbhec/reclamation.html>)

B.S. in Interdisciplinary Studies

Norfolk Naval Base

(Please see NSU Website, <http://www.nsu.edu/vbhec/naavalclasses.html>.)

DEPARTMENT OF MASS COMMUNICATIONS AND JOURNALISM

Dr. William Hart
Department Head
(757) 823 - 2261

The mission of the Department of Mass Communications and Journalism is to advance the academic and professional excellence of undergraduate and graduate students, alumni, and media practitioners through programs of teaching, research, and public service that combine strong liberal arts and science studies with professional preparation for media careers. The Department shall produce graduates who meet high standards of performance in gathering, editing, interpreting, and disseminating information that may determine the public discourse.

The Department offers an undergraduate degree program leading to the Bachelor of Science in Mass Communications in either of two tracks: General Broadcast or Journalism, and a graduate degree program leading to the Master of Arts in Media and Communications.

The curriculum is designed to meet the requirements of the Accrediting Council on Education in Journalism and Mass Communications (ACEJMC).

In addition to the major coursework, ACEJMC standards require undergraduate students to complete at least 72 hours outside of the major, as well as the general education requirements in the liberal arts and sciences at Norfolk State University.

CURRICULUM REGULATIONS

Mass Communications and Journalism students must earn "C" or better in every departmental course and in SEM 101, SEM 102, SEM 201, ENG 101, ENG 102, ENG 203, and ENG 285.

TRANSFER CREDIT POLICY

The Department will accept no more than 12 hours credit in a comparable undergraduate major taken at another institution. It shall accept credits for courses outside the major when approved by the Office of Admissions and the Registrar's Office.



B.S. in Mass Communications – General Broadcast**CURRICULUM****FIRST YEAR**

COURSE	COURSE TITLE	HOURS
ENG 101	College English I or ENG 101H	3
ENG 102	College English II or ENG 102H	3
HED 100	Personal and Community Health	2
HIS 102	United State History to 1865 or HIS 100 or HIS 101 or HIS 103	3
MCM 111	Media and Society	3
MCM 250	Television Production	3
MTH 103	Mathematics in General Education	3
PED 100	Fundamentals of Fitness for Life or PED 13X or PED 20X or PED 21X	1
POS 100	American National Government	3
SOC 101	Introduction to Social Sciences or SOC 110	3
SEM 101/102	Spartan Seminars 101 and 102	2
TOTAL HOURS REQUIRED		29

THIRD YEAR

COURSE	COURSE TITLE	HOURS
ECN 211	Principles of Microeconomics or ECN 200	3
ENG 114	Techniques of Vocabulary Building	2
HIS 335	African American History, Part 1 or HIS 336 or HIS 370 or HIS 371 or ENG 383 or FIA 170 or MUS 234 or POS 315 or PSY 340	3
JRN 290	Digital Photography or MCM 280 or MCM 330 or MCM 391	3
PSY 210	Introduction to Psychology	3
MCM 310	History of Mass Communications or MCM 363 or MCM 476	3
MCM 350	Television Directing or MCM 315 or MCM 390	3
XXX XXX	Elective within the Major	3
XXX XXX	Electives outside the Major	6
TOTAL HOURS REQUIRED		29

SECOND YEAR

COURSE	COURSE TITLE	HOURS
BIO 100	Biological Science	3
BIO 100L	Biological Science Lab or SCI 101L	1
SCI 101	Introduction to Physical Science	3
CSC 150	Computer Concepts and Applications	3
CSC 200	Advanced Computer Concepts	3
ENG 203	Advanced Communication Skills or ENG 286 or ENG 303	3
ENG 207	Literature of the Western World	3
FIA 201	Basic Art Appreciation or MUS 30 1	3
HUM 210	Humanities or HUM 211	3
MCM 261	Introduction to Media Writing	3
ENG 285	Public Speaking or ENG 285H	3
SEM 201	Spartan Seminar 201	1
TOTAL HOURS REQUIRED		32

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
GEO 130	Principles of Geography	3
MCM 351	Introduction to Broadcast and Film Criticism or MCM 450 or MCM 485	3
MCM 440	Media Law	3
MCM 445	Media Ethics or MCM 464 or MCM 470 or MCM 445H	3
MCM 460	Contemporary Issues in Media or MCM 362 or MCM 489 or MCM 460H	3
MCM 491	Internet/Web Page Design	3
XXX XXX	Elective within the Major	3
XXX XXX	Electives outside the Major	9
TOTAL HOURS REQUIRED		30

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	59
Electives	21
Other Requirements	0
TOTAL DEGREE HOURS REQUIRED	120

B.S. in Mass Communications – Journalism**CURRICULUM****FIRST YEAR**

COURSE	COURSE TITLE	HOURS
ENG 101	College English I or ENG 101H	3
ENG 102	College English II or ENG 102H	3
HED 100	Personal and Community Health	2
HIS 102	United State History to 1865 or HIS 100 or HIS 101 or HIS 103	3
JRN 220	Basic Writing	3
MCM 111	Media and Society	3
MTH 103	Mathematics in General Education	3
PED 100	Fundamentals of Fitness for Life or PED 13X or PED 20X or PED 21 X	1
POS 100	American National Government	3
SOC 101	Introduction to Social Sciences or SOC 110	3
SEM 101/102	Spartan Seminars 101 and 102	2
TOTAL HOURS REQUIRED		29

THIRD YEAR

COURSE	COURSE TITLE	HOURS
ECN 211	Principles of Microeconomics or ECN 220	3
ENG 114	Techniques of Vocabulary Building	2
ENG 207	Literature of the Western World	3
PSY 210	Introduction to Psychology	3
HIS 335	African American History, Part 1 or HIS 336 or HIS 370 or HIS 371 or ENG 383 or FIA 170 or MUS 234 or POS 315 or PSY 340 or JRN 299	3
JRN 330	Copy Editing	3
JRN 341	PR Pract ice or JRN 313 or JRN 323	3
XXX XXX	Elective within the Major	3
XXX XXX	Electives outside the Major	9
TOTAL HOURS REQUIRED		32

SECOND YEAR

COURSE	COURSE TITLE	HOURS
BIO 100	Biological Science	3
BIO 100L	BIO 100L or SCI 101LL	1
SCI 101	Introduction to Physical Science	3
CSC 150	Computer Concepts and Applications	3
CSC 200	Advanced Computer Concepts	3
ENG 203	Advanced Communication Skills or ENG 286 or ENG 303	3
FIA 201	Basic Art Appreciation or MUS 301	3
HUM 210	Humanities or HUM 211	3
JRN 210	Advertising Principles or JRN 221 or JRN 240	3
JRN 290	Digital Photography or MCM 250 or FIA 365	3
ENG 285	Public Speaking or ENG 285H	3
SEM 201	Spartan Seminar 201	1
TOTAL HOURS REQUIRED		32

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
GEO 130	Principles of Geography	3
JRN 332	Graphics Design or JRN 342	3
MCM 310	History of Mass Communication or MCM 460	3
MCM 440	Media Law or MCM 445 or MCM 445H	3
MCM 450	Media Theory and Research or MCM 450H	3
MCM 491	Internet/ Web Page Design	3
XXX XXX	Electives within the Major	3
XXX XXX	Electives outside the Major	6
TOTAL HOURS REQUIRED		27

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	39
Electives	15
Other Requirements	26
TOTAL DEGREE HOURS REQUIRED	120

Minor in Mass Communications

The following 15 hours are required for a minor in Mass Communications:

CORE COURSES

(Choose any 3 courses from below.)

COURSE	COURSE TITLE	HOURS
MCM 211	Society and Mass communications	3
MCM 250	Television Production	3
MCM 261	Introduction to Media Writing	3
MCM 362	Broadcasting News Writing and Reporting	3
MCM 3XX	Communications Elective	3
TOTAL HOURS REQUIRED		9

ELECTIVE COURSES

(Choose any 2 courses from below.)

COURSE	COURSE TITLE	HOURS
MCM 330	Elec. Field Production and Editing	3
MCM 350	Television Directing	3
MCM 391	Radio and Television Announcing	3
MCM 464	Advanced Television Production	3
MCM 470	Broadcast/Cable Programming	3
MCM 476	Broadcast/Cable Sales	3
MCM 489	Media Management	3
MCM 491	Internet/Web Page Design	3
TOTAL HOURS REQUIRED		6

TOTAL DEGREE HOURS REQUIRED	15
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DEPARTMENT OF POLITICAL SCIENCE

Dr. Olusoli Akomolafe
Department Head
(757) 823-8999

The Department of Political Science offers one undergraduate degree program, the Bachelor of Arts in Political Science. The Bachelor of Arts Degree in Political Science is a degree designed to fulfill a wide range of career goals in the field of Political Science. Career areas of interest include, but are not limited to, the following: Law, Public Administration, Urban Planning, International Affairs, and U.S. Politics and Theory. Contact the department for specific courses related to career areas of interest.

The basic objectives of the degree program are as follows:

1. To provide fundamental training for students planning careers in law, public management, political research, teaching, foreign affairs and urban planning.
2. To prepare students to be able to examine critically, evaluate and analyze contemporary issues in politics.
3. To prepare students with the appropriate academic background (i.e., knowledge base and communication skills), which can aid them in performing well in graduate/professional school, in their careers and in the global community.



Bachelor of Arts in Political Science

CURRICULUM

FIRST YEAR

COURSE	COURSE TITLE	HOURS
URP 192	Introduction to Urban Planning (Spring only)	3
BIO 100	Biological Science or SCI 101	3
CSC 150	Computer Concepts and Applications or CLM 165, FIA 280, TED 170	3
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
MTH 103	Mathematics in General Education	3
PED 100	Fundamentals of Fitness for Life	1
POS 100	American National Government	3
POS 180	Introduction to Political Science	3
IUL 101	Introduction to University Life	3
TOTAL HOURS REQUIRED		30

SECOND YEAR

COURSE	COURSE TITLE	HOURS
BIO 100L	Biological Laboratory or SCI 101L Physical Science	1
BIO 105	Biological Science or CHM 1XX, PHY 1XX, or SCI 1XX	3
ENG 114	Techniques of Vocabulary Building	2
HIS 100	History of World Societies, Part 1 or HIS 101, HIS 102 or HIS 103	3
HUM 210	Humanities (HUM 211, ENG 207, FIA 201 or MUS 301)	3
SOC 101	Introduction to Social Sciences	3
URP 292	Urban Planning Law (Fall only)	3
POS 231	American State and Local Government	3
SOC 101	Introduction to Social Sciences	3
ENG 203	Advanced Communication Skills	
ENG 285	Public Speaking	3
TOTAL HOURS REQUIRED		30

THIRD YEAR

COURSE	COURSE TITLE	HOURS
ECN 211	Principles of Microeconomics or ECN 212	3
POS 230	American Public Policy	3
ECN 211	Principles of Microeconomics or ECN 212	3
POS 250	Introduction to Public Administration	3
POS 332	Introduction to Jurisprudence	3
POS 333	Methods of Research	3
POS 345	Statistics and Data Processing	3
URP 292	Urban Planning Law	3
XXX XXX	Cultural Electives (Eng 383, FIA 370, MUS 234, HIS 335, HIS 336, HIS 370, HIS 371, JRM 299, SOC 237, POS 315, PSY340)	6
XXX XXX	Free Elective	3
TOTAL HOURS REQUIRED		30

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
POS 337	American Constitutional Development (FALL ONLY)	3
POS 350	Organizational Theory and Behavior	3
POS 360	International Relations	3
POS 499	Senior Seminar (Prerequisites - POS 100, POS 230, POS 332, POS 333, and POS 345) †††	3
POS 431	Modern Political Theory	3
POS 451	Public Personnel Administration	3
XXX XXX	Free Electives	12
TOTAL HOURS REQUIRED		30

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	62
Electives	18
TOTAL DEGREE HOURS REQUIRED	120

AREAS OF INTEREST

The following courses represent **career areas of interest** to increase students' preparedness for specific career goals. Students are encouraged to work closely with their advisor prior to taking courses in **the career areas of interest**. Twelve (12) credit hours are needed to fulfill the requirements for **each career area of interest**.

LAW

COURSE	COURSE TITLE
POS 332	INTRO TO JURISPRUDENCE
POS 337	American Constitutional Law
POS 338	American Constitutional Law (POS 3XX)
POS 443*	Administrative Law (POS 4XX)
POS 494	Pre-Law Internship (POS 4XX)
CJS 200	Introduction to Criminal Justice (Free Elective)
CJS 313	American Court System (Free Elective)

U.S. POLITICS AND THEORY

COURSE	COURSE TITLE
POS 100	AMERICAN NATIONAL GOVERNMENT
POS 325	American Foreign Policy (POS 3XX)
POS 315	African American Politics (POS 3XX)
POS 431	Modern Political Theory
POS 430	Political Theory
POS 320	The American Party System

PUBLIC ADMINISTRATION

COURSE	COURSE TITLE
POS 250	INTRODUCTION TO PUBLIC ADMINISTRATION
POS 350	Organization Theory and Behavior
POS 451	Public Personnel Administration
POS 493	Public Administration Internship (POS 4XX)
POS 230	American Public Policy*
POS 443	Administrative Law (POS 4XX)
ACC 201	Principles of Financial Accounting

INTERNATIONAL RELATIONS

COURSE	COURSE TITLE
POS 323	COMPARATIVE GOVERNMENT
POS 360	International Relations
POS 442	International Law (POS 4XX)
POS 463	Politics of African Nations (POS 4XX)
POS 462	Near Middle East in International Affairs (POS 4XX)
POS 467	Introduction to Non-Western Politics
POS 464	(African Crises)***

URBAN PLANNING

COURSE	COURSE TITLE
URP 192	INTRODUCTION TO URBAN PLANNING
URP 292	Urban Planning Law
URP 285	Urban Land Use Planning (URP 2XX)
URP 380	Housing and Community Development (URP 3XX)
URP 355	Economic Development Planning (URP 3XX)
POS 310	Metropolitan and Regional Development (POS 3XX)

* POS 230 Added

** GEO 139 Deleted; POS 464 Added

*** Newly Added

Minor in Political Science

REQUIRED COURSES

COURSE	COURSE TITLE	HOUR
POS 250	PUBLIC ADMINISTRATION	3
POS 100	American National Government	3
POS 180	Introduction to Political Science***	3
POS 332	Introduction to Jurisprudence	3
POS 430	Political Theory	3
POS XXX	Political Science Elective 3XX, POS 4XX	3
URP 192	Introduction to Urban Planning	3
TOTAL HOURS REQUIRED		18

TOTAL DEGREE HOURS REQUIRED	18
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The basic objectives of the minor in Political Science are as follows:

1. To provide the scope of basic training for students who may choose, as an option, careers in law, public management, political research, foreign affairs and urban planning.
4. To prepare students to be able to examine critically, evaluate and analyze contemporary issues in politics.
5. To provide a proper frame of reference for non-majors who wish to supplement and broaden their educational experience in Political Science. Course Requirements for the Minor in Political Science

NOTE:

In order to complete the Minor in Political Science, students can take up to nine (9) credits that are 100 or 200 level courses; however, students must take a minimum of nine (9) credits at the 300 or 400 level (18 credits total).

ENG 210 (Practical Grammar) and Eng 303 (Professional and Technical Writing) are recommended electives.

Students interested in careers which require a specific proficiency (such as mastery of a foreign language) are encouraged to take electives consistent with those career options.

POS 451 - Public Personnel Administration is a prerequisite for POS 493.

POS 493 - Public Administration Internship – This course provides field experience in a public or non-profit agency. Please contact the Public Administration Internship Coordinator for additional requirements.

POS 494 - Pre-law Internship – Please contact the Pre-law Internship Coordinator for the requirements. This course provides field experience in a public agency, such as a public defender's office or legislative body, as well as private law firms.

DEPARTMENT OF PSYCHOLOGY

Dr. Karen Y. Holmes
Department Head
(757) 823 - 9055

The Department of Psychology offers the Bachelor of Arts Degree with concentrations in General Psychology, Teacher Certification in Early Childhood Education, and Teacher Certification in Special Education. It plays a significant role in the overall mission of the University by contributing to the development of human resources through instruction in the behavioral sciences. Graduates from the three undergraduate programs offered by this department will be prepared to assume important roles in the community as paraprofessionals, teachers and behavioral science researchers. All programs are designed to prepare students for rigorous graduate training in psychology. The Department also offers a Master of Arts in Community/Clinical Psychology (**currently inactive**) and is part of the Virginia Consortium Program in Clinical Psychology that offers the Doctor of Philosophy in Clinical Psychology degree. The major aims of the Department are as follows:

1. To provide a flexible, relevant, and fundamentally sound curriculum for students majoring in psychology.
2. To prepare students thoroughly to render services initially as entry-level professionals, teachers and behavioral scientists; and eventually as professional psychologists.
3. To provide a thorough behavioral science background for students whose expertise can be utilized in related human service fields of employment.



B.A. in Psychology

CURRICULUM

FIRST YEAR

COURSE	COURSE TITLE	HOURS
ENG 101	College English I	3
ENG 102	College English II	3
CSC 150	Computer Concepts and Applications	3
HED 100	Personal and Community Health	2
XXX XXX	Cultural Elective	3
MTH 103	Mathematics in General Education	3
PED 100	Fundamentals of Fitness for Life	1
PSY 210	Introduction to Psychology	3
PSY 211	Basic Principles of Psychology	3
SOC 101	Introduction to Social Science	3
SEM101/102	Spartan Seminars 101 & 102	2
TOTAL HOURS REQUIRED		29

SECOND YEAR

COURSE	COURSE TITLE	HOURS
BIO, CHM, or PHY XXX	Biological Science, Chemistry, or Physical Science	6
BIO, CHM or PHY LAB	BIO or CHM or PHY Lab	1
CSC 200	Advanced Computer Concepts	3
ENG 207	Literature of the Western World	3
PSY 270	Statistics in Psychology	3
PSY 280	Abnormal Psychology	3
PSY XXX	Psychology Electives	6
ENG 285	Public Speaking	3
PSY 381	Writing in Psychology	3
SEM 201	Spartan Seminar 201	1
TOTAL HOURS REQUIRED		32

THIRD YEAR

COURSE	COURSE TITLE	HOURS
PSY 360	Experimental Psychology	3
ECN 200	Principles of Microeconomics Or ECN 211	3
PSY XXX	Psychology Electives	9
XXX XXX	Free Electives	12
PSY 392	Seminar in Community Resources	1
XXX XXX	Social Science Elective	3
TOTAL HOURS REQUIRED		31

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
HIS 335	African American History, Part 1 or HIS 336, or African History: HIS 370, HIS 371	3
PSY 492	Psychology Seminar	3
PSY XXX	Psychology Electives	9
PSY 495	Psychology Practicum	3
XXX XXX	Free Electives	10
TOTAL HOURS REQUIRED		28

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	34
Psychology Electives	24
Free Electives	22
TOTAL DEGREE HOURS REQUIRED	120

Minor in Psychology

Students must earn a minimum grade of C in all major courses.

COURSE	COURSE TITLE	HOURS
PSY 210	Introduction to Psychology	3
PSY 211	Basic Principles of Psychology	3
PSY 280	Abnormal Psychology	3
PSY 3XX/ PSY 4XX	300- 400 level of Psychology Courses	6
PSY 4XX	400 level Psychology Course	3
TOTAL HOURS REQUIRED		18

TOTAL DEGREE HOURS REQUIRED	18
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DEPARTMENT OF SOCIOLOGY

Dr. Carlene Turner
Department Head
(757) 823 - 9078

Sociology provides many distinctive perspectives of the social world, generating new ideas and critiquing the old. The field also offers a range of research techniques that can be applied to virtually any issue: street crime and delinquency, corporate downsizing, the alleviation of poverty and homelessness, welfare or education reform, or problems of peace and war. Because sociology addresses the most challenging issues of our time, it is a rapidly expanding field whose research and scholarship is increasingly tapped by those who craft policies and create programs. Sociology is an exciting discipline with expanding opportunities for a wide range of career paths.

As such, the NSU Department of Sociology offers students a high quality education, providing knowledge and skills to strive in a competitive, diverse and ever-changing world. The main goal of the department is to not only share our knowledge and professional experiences, but to encourage and challenge students to develop their full academic potential. The department will accomplish this by increasing the understanding of social behavior, promoting original research and teaching the principles and methodologies of sociology. Consequently, the overall goal of the Sociology Department is the pursuit of excellence in the areas of teaching, research, scholarly activities and community service. The Department is committed to student excellence, preparing students to address these issues in society by working closely with them to encourage and develop their skills. Through research and scholarly activities, faculty contribute to the further understanding of human behavior and involve students in these activities. Simultaneously, the Department seeks to serve as an interface between the theoretically-oriented university and the pragmatically-oriented community and to be involved in community service.

The Department offers the Bachelor of Arts degree in Sociology with concentrations in Crime and Criminal Justice, Social Justice and Social Inequality, Family and Social Relationships, and Population Studies. In addition, the Department offers two Master of Arts degrees in Urban Affairs and Criminal Justice.



B.A. in Sociology**CURRICULUM****FIRST YEAR**

COURSE	COURSE TITLE	HOURS
BIO 100	Biological Science or BIO 105 or BIO 110 or SCI 101	3
BIO 100L	Biological Science Lab or SCI 100L	1
CSC 150	Computer Concepts and Applications	3
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
HIS 100	History of World Societies, Part 1 or HIS 101, HIS 102 or HIS 103	3
MTH 103	103 Mathematics in General Education or MTH 105	3
PED 100	Fundamentals of Fitness for Life	1
SOC 101	Introduction to Social Sciences	3
SOC 110	Introduction to Sociology	3
SEM 101/102	Spartan Seminars 101 and 102	2
TOTAL HOURS REQUIRED		30

SECOND YEAR

COURSE	COURSE TITLE	HOURS
HIS 100	Or HIS 101, HIS 102, HIS 103	3
HUM 210	Or HUM 211, ENG 207, or MUS 301 or Foreign Language	6
SOC 234	Urban Sociology or SOC 228	3
PSY 210	Introduction to Psychology or POS 100 or ECN 211	3
ENG 285	Public Speaking	3
SOC 237	Racial and Cultural Minorities or CJS 200	3
SOC 230	Social Problems	3
XXX XXX	Free Elective	3
SEM 201	Spartan Seminar 201	1
TOTAL HOURS REQUIRED		31

THIRD YEAR

COURSE	COURSE TITLE	HOURS
SOC 338	Sociology of Families or SOC 331	3
ENG 383	African American Literature or HIS 335 or HIS 336 or HIS 370 or HIS 377 or PSY 240 or POS 315	3
SOC 344	Methods of Social Research	3
SOC 355	Elementary Social Statistics	3
SOC 3XX	Sociology or CJS Elective	9
XXX XXX	Free Electives	9
TOTAL HOURS REQUIRED		30

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
SOC 446	Sociological Theory	3
XXX XXX	Approved Elective	3
SOC 393	Internship or Approved Electives	6
SOC 462	Complex Organizations	3
SOC 499	Applied Sociology	3
XXX XXX	Free Electives	11
TOTAL HOURS REQUIRED		29

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SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	45
Electives	35
Other Requirements	0
TOTAL DEGREE HOURS REQUIRED	120

CAREER AREAS IN SOCIOLOGY

Students may follow the general curriculum (above) or specialize in courses relevant to career areas to increase their preparedness for specific career goals using the following guidelines and working closely with an advisor.

CRIME AND CRIMINAL JUSTICE

- POS 100 - American National Government or PSY 100 - Introduction to Psychology
- CJC 200 - Introduction to Criminal Justice (instead of SOC 137- Social Problems)
- CJS Electives: Choose 3: CJS 220 - Juvenile Delinquency, 225 - Law Enforcement, 230 - Introduction to Corrections, 310 - Criminology, 313 - American Court System, 315 - Sociology and Drug Usage, 492 - Special Topics in Criminal Justice
- Approved/ Free Electives: Choose 3: POS 332 - Jurisprudence, SOC 458 - Social Inequality, SOC 237 - Racial Ethnic Minorities, CJS XXX

FAMILY AND SOCIAL RELATIONS

- PSY 210 - Introduction to Psychology (instead of POS 100 - American National Government)
- SOC 137 - Social Problems (instead of CJS 200 - Introduction to Criminal Justice)
- SOC XXX - Choose 3: SOC 338 - The Family or SOC 331 Social Psychology, SOC 205 - Human Sexuality, CJS 220
- Juvenile Delinquency, CJS 315 - Sociology and Drug Usage, SOC 458 - Social Inequality
- Approved Elective: Choose 1: PSY 220 - Child Psychology, 225 - Adolescent Psychology, SOC 228 - Developmental Psychology, SWK Techniques of Counseling
- Free Electives: Choose 2: Any Approved Elective above, SWK 357 - Interviewing Techniques, SOC 458 - Social Inequality, SOC 237 - Racial, Ethnic Minorities

SOCIAL INEQUALITY AND SOCIAL JUSTICE

- POS 100 -- American National Government or ECN 210 -- Economics (instead of PSY 210 - Introduction to Psychology)
- SOC 137 -- Social Problems (instead of CJS 200 - Introduction to Criminal Justice)
- SOC XXX --SOC 237- Racial Ethnic Minorities, SOC 458 - Social Inequality; Choose 1 from: SOC 228 - Demography or SOC 234 - Urban Sociology or SOC 325 - Society, Business and Internationalism

- Approved Elective/ Free Elective, Choose 3 -- CJS 310 - Criminology or CJS 230 - Introduction to Corrections or CJS 200- Introduction to Criminal Justice, POS (Housing), POS 315 - Blacks in the American Political Process, GEO 100 - Geography, INT 400 - Globalism

POPULATION STUDIES AND INTERNATIONAL DEVELOPMENT

- POS 100 - American National Government or
- ECN 211 (instead of PSY 210 - Introduction to Psychology)
- SOC 137 - Social Problems (instead of CJS 200 - Introduction to Criminal Justice)
- SOC 228 - Demography (instead of SOC 234 - Urban Sociology)
- SOC XXX: SOC 301 - Demographic Methods or SOC 302 - Migration, or SOC 303 - Fertility, SOC 304 - Mortality, SOC 401-Demographic Methods II, SOC 402 -Family Demography, SOC 403 - Population Growth Food and the Environment, SOC 404 - Population and Economic Development, SOC 234 - Urban Sociology, SOC 325 - Society, Business and Internationalism
- Approved/Free Electives, Choose 3: SOC 458 Social Inequality, INT 400 - Globalism, SOC 237 Racial, Cultural Minorities, GEO 100 - Geography, POS or HIS International Focus

Minor in Sociology

COURSE	COURSE TITLE	HOURS
INTRODUCTION		
SOC 110	Introduction to Sociology	3
SOCIAL PROBLEMS (Select One Course)		
SOC 137	Social Problems	3
SOC 228	Demographic Principles	
SOC 234	Urban Sociology	
SOC 234	Introduction to Criminal	
CJS 200	Justice Research	
SOCIAL RESEARCH		
SOC 344	Methods of Social Research	3
ORGANIZATION (Select One Course)		
SOC 446	Sociological Theory	3
SOC 458	Social Inequality	
SOC 462	Complex Organizations	
GENERAL (Select One Course)		
SOC XXX/	Sociology Elective (300-400	3
CJS XXX	level) or Criminal Justice Elective (300-400 level)	
TOTAL DEGREE HOURS REQUIRED		15

DEPARTMENT OF VISUAL AND PERFORMING ARTS

Dr. Sam Dorsey
Department Head
(757) 823 - 8544

DRAMA DIVISION

Mr. Anthony Stockard
Program Director
(757) 823 - 2897

The **Bachelor of Arts degree in Drama and Theatre** requires 120 credit hours and provides students with comprehensive training in drama and theatre. The degree program also offers 18 hours of unrestricted electives to permit the student to receive a true liberal arts education. Students may elect to use the 18 elective hours to satisfy the requirements of an available minor in another discipline. The curriculum offers two areas of emphasis to equip students with concentrated training in either *Design and Technology* or *Performance*.

- The **Design and Technology** emphasis is designed to expand the career preparation of students by providing knowledge, skills, and practical experience in stagecraft as well as costume, scenic, sound and lighting design.
- The **Performance** emphasis is designed to expand the career preparation of students by providing knowledge, skills, and practical experience in script analysis, voice, movement, acting theory and period styles of performance.



BA in Drama and Theatre: Performance

CURRICULUM

FIRST YEAR

COURSE	COURSE TITLE	HOURS
DRM 113	Theatre Movement	3
DRM 114	Introduction to Theatre	3
ENG 101	College English I	3
ENG 102	College English II	3
DRM 115	Dramatic Theory and Criticism	3
DRM 120	Stagecraft I	3
DRM 123	Theory and Techniques of Acting	3
DRM 219	Black Drama	3
CSC 150	Computer Concepts & Applications	3
SEM 101/102	Spartan Seminar 101 and 1	2
TOTAL HOURS REQUIRED		29

SECOND YEAR

COURSE	COURSE TITLE	HOURS
BIO 100	Biological Science	3
SCI 101	Introduction to Physical Science	3
SCI 101L	Physical Science or Biological Science Lab	1
DRM 240	Theatre Management	3
DRM 200	Intermediate Acting	3
HED 100	Personal & Community Health	2
HED 251	Modern Dance I	1
HED 254	Jazz Dance	1
ENG 285	Public Speaking	3
HUM XXX	ENG 207 or FIA 201 or MUS 103	3
MTH 103	Mathematics in General Education	3
SOC /SCI	SOC 101/ HIS 101/ HIS 103/ BUS 175/ ECN 200	3
PED 100	Fundamentals of Fitness for Life	1
SEM 201	Spartan Seminar 201	1
TOTAL HOURS REQUIRED		31

THIRD YEAR

COURSE	COURSE TITLE	HOURS
DRM 212	Improvisation for the Theatre	3
DRM 238	Stage Management	3
DRM 310	Stage Make-up	3
DRM 315	Theatre History	3
DRM 324	Advanced Acting	3
ENG 413	Shakespeare	3
DRM 426 or 450	Special Project or Research Seminar	3
CUL 1	ENG 383/ MUS 234/ HIS 371/ HRP 320	3
CUL 2	ENG 383/ MUS 234/ HIS 371/ HRP 320	3
TOTAL HOURS REQUIRED		30

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
DRM XXX	Drama Elective	3
DRM 420	Play Production	3
DRM 425	Directing	3
XXX XXX	Minor or Unrestricted Electives	18
DRM 413	Shakespeare for the Stage	3
TOTAL HOURS REQUIRED		30

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Core	38
Area of Emphasis	21
Electives	03
Minor or Unrestricted Electives	18
TOTAL DEGREE HOURS REQUIRED	120

BA in Drama and Theatre: Design and Technology

CURRICULUM

FIRST YEAR

COURSE	COURSE TITLE	HOURS
FIA 114	Basic Design	3
DRM 114	Introduction to Theatre	3
ENG 101	College English I	3
ENG 102	College English II	3
DRM 115	Dramatic Theory and Criticism	3
DRM 120	Stagecraft I	3
DRM 123	Theory and Techniques of Acting	3
DRM 219	Black Drama	3
CSC 150	Computer Concepts & Applications	3
SEM 101/102	Spartan Seminar 101 and 1	2
TOTAL HOURS REQUIRED		29

SECOND YEAR

COURSE	COURSE TITLE	HOURS
BIO 100	Biological Science	3
	Introduction to Physical Science	3
SCI 101	Physical Science or Biological Science Lab	1
DRM 240	Theatre Management	3
FIA 120	Drawing	3
HED 100	Personal & Community Health	2
HED 251	Modern Dance I	1
HED 254	Jazz Dance	1
ENG 285	Public Speaking	3
HUM XXX	ENG 207 or FIA 201 or MUS 103	3
MTH 103	Mathematics in General Education	3
SOC /SCI	SOC 101/ HIS 101/ HIS 103/ BUS 175/ ECN	3
PED 100	Fundamentals of Fitness for Life	1
SEM 201	Spartan Seminar 201	1
TOTAL HOURS REQUIRED		31

THIRD YEAR

COURSE	COURSE TITLE	HOURS
DRM 220	Stagecraft II	3
DRM 238	Stage Management	3
DRM 310	Stage Make-up	3
DRM 315	Theatre History	3
DRM 320	Lighting Design	3
DRM 321	Scenery Design	3
ENG 410	Costume Design	3
DRM 426 or 450	Special Project or Research Seminar	3
CUL 1	ENG 383/ MUS 234/ HIS 371/ HRP 320	3
CUL 2	ENG 383/ MUS 234/ HIS 371/ HRP 320	3
TOTAL HOURS REQUIRED		30

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
DRM XXX	Drama Elective	3
DRM 420	Play Production	3
DRM 425	Directing	3
XXX	Minor or Unrestricted Electives	18
DRM 436	Sound design	3
TOTAL HOURS REQUIRED		30

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Core	38
Area of Emphasis	21
Electives	03
Minor or Unrestricted Electives	18
TOTAL DEGREE HOURS REQUIRED	120

DEPARTMENT OF VISUAL AND PERFORMING ARTS

Dr. Sam Dorsey
Department Head
(757) 823-8544

FINE ARTS DIVISION

Mr. Solomon Isekeije
Program Coordinator
(757) 823-8844

The Division of Fine Arts takes its title and general direction from the traditional roles of drawing, painting, and sculpture. However, the goal of recent years has been to eliminate constricting departmental barriers, to increase interrelationship of all creative activities, and to broaden the educational potential, while continuing the infusion of relevant technologies in hardware and software. This has placed greater emphasis on a wider spectrum of courses and programs, more varied technology, and a neoteric pedagogy. The role of the creative enterprise in society is explored in special projects.

ASSESSMENT REQUIREMENTS

All students majoring in the Fine Arts are required to maintain a professional portfolio that demonstrates their creative development. The portfolio is reviewed at scheduled intervals for advisement purposes. Participation in the "Seniors Gallery Exhibition" and other co-curricular activities scheduled by the Division of Fine Arts is required of all graduates. Continuous verifiable engagement with the local art community is required by the Division.



B.A. in Fine Arts and Graphic Design

CURRICULUM

FIRST YEAR

COURSE	COURSE TITLE	HOURS
ENG 101	College English I	3
ENG 102	College English II	3
FIA 114	Basic Design	3
FIA 115	Basic Design II	3
FIA 120	Drawing	3
FIA 110	Introduction to Art History	3
HED 100	Personal & Community Health	2
FIA 280	Computer Application in the Arts	3
SEM 101/102	Spartan Seminars 101 and 102	2
PED 100	Fundamentals of Fitness for Life	1
XXX XXX	Foreign Language	3
TOTAL HOURS REQUIRED		29

SECOND YEAR

COURSE	COURSE TITLE	HOURS
BIO 100	Biological Science	3
SCI 101	Physical Science	3
SCI 101L/ BIO 100L	Biology or Physical Science Lab	1
FIA 140/ FIA 240	Ceramics or Sculpture, Carving & Welding	3
FIA 220	Life Drawing	3
SEM 201	Spartan Seminar 201	1
HUM 210 OR HUM 211	Humanities	3
FIA 234	Painting	3
FIA 295	Sophomore Review	1
FIA 201	Art Appreciation	3
MTH 103	Mathematics in General Education	3
HIS 100	History of World Societies, Part 1	3
SOC 101	Introduction to Social Science	3
TOTAL HOURS REQUIRED		33

A non-art minor can be established by choosing carefully with your advisor the 15 – 18 necessary hours of electives.

**SPECIFIC COURSES REQUIRED FOR CURRICULUM
POPULATE FROM THE FOLLOWING LIST OF CLASSES:**

FIA 116, FIA 262, FIA 235, FIA165, FIA166, FIA260, FIA 265, FIA 266, FIA 295, FIA 321, FIA 360, FIA 361, FIA 362, FIA 363, FIA 380, FIA 420, FIA 460, FIA 461, FIA 462, FIA 463, FIA 465, FIA 469, FIA 470A/B, FIA 492/492A/492B, FDM 149, FDM 250, FDM 334, FDM 449, FIA 221, FIA 211, FDM 149, FDM 250, FDM 362, FDM 495.

THIRD YEAR

COURSE	COURSE TITLE	HOURS
FIA 270	History of Art Survey I	3
FIA 271	History of Art Survey II	3
ENG 285	Public Speaking	3
FIA 370	African/American Art History	3
FIA XXX	FIA Elective (FIA 165, FDM 149, or FIA 260)	3
FIA XXX	FIA Elective (265, FDM 250 or FIA 360)	3
XXX XXX	Elective (FIA 365, FDM 362, or FIA 362)	3
XXX XXX	Cultural Elective	3
XXX XXX	General Education Elective	3
XXX XXX	General Education or Foreign Language Elective	3
TOTAL HOURS REQUIRED		30

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
FIA 470	Modern Art History	3
FIA 491	Advanced Studio Problems	3
FIA 495	Portfolio Preparation & Senior Exhibition	2
FIA 465 OR 460	Studio Workshop I or Advanced Graphic Design	3
FIA 466 OR FIA 461	Studio Workshop II or Advanced Graphic Design	3
FIA 467 OR FIA 462	Studio Workshop III or Design in Commerce	3
FIA 468 OR FIA 469	Studio Workshop IV or Printmaking Workshop	3
XXX XXX	General Education Elective	6
XXX XXX	Free Elective	3
TOTAL HOURS REQUIRED		29

CULTURAL ELECTIVES: ENG 383, HIS 336, HIS 371, MUS 234, POS 315, PSY 340, SOC 237 FINE ART ELECTIVES: May be any FIA or FDM 100, 200, 300, or 400 level courses listed in the NSU Student Handbook, the Department of Fine Arts Handbook, or the NSU Semester Schedule Book.

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	62
Electives	18
Other Requirements	0
TOTAL DEGREE HOURS REQUIRED	120

B.A in Fine Arts – Specializing in Education**CURRICULUM****FIRST YEAR**

COURSE	COURSE TITLE	HOURS
ENG 101	College English I	3
ENG 102	College English II	3
FIA 114	Basic Design	3
FIA 115	Basic Design II	3
FIA 116	Basic Design III	3
FIA 120	Drawing	3
FIA 121	Drawing	3
FIA 140	Ceramics	3
FIA 160	Lettering	3
HED 100	Personal & Community Health	2
SEM 101/102	Spartans Seminars 101 and 102	2
PED 100	Fundamentals of Fitness for Life	1
TOTAL HOURS REQUIRED		32

THIRD YEAR

COURSE	COURSE TITLE	HOURS
EDU 201	Foundations of Education	3
FIA 234	Painting	3
FIA 270	History of Art Survey I	3
FIA 271	History of Art Survey II	3
HUM 210	Humanities 210 or HUM 211	3
PSY 228	Developmental Psychology	3
ENG 285	Public Speaking	3
SED 405	Reading in the Content Area	3
SOC 101	Introduction to Social Sciences	3
XXX XXX	Cultural Elective*	3
TOTAL HOURS REQUIRED		30

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
BIO 100	Biological Science	3
SCI 101	Introduction to Physical Science	3
SCI 101L	SCI 100L Physical Science Lab or BIO 100L Biology Lab	1
FIA 141	Ceramics	3
FIA 280	Computer Applications in the Arts	3
FIA 214	Craft Design	3
FIA 220	Life Drawing	3
FIA 240	Sculpture, Carving & Welding	3
FIA 261	Printmaking	3
HIS 102	United States History to 1865	3
MTH 103	Mathematics in General Education	3
TOTAL HOURS REQUIRED		32

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
FIA 320	Intermediate Drawing	3
FIA 365	Elementary Photography	3
SED 386	Fine Arts Curriculum and Instructional Procedures	3
EDU 381	Classroom and Behavior Management	3
SED 499	Directed Teaching	12
XXX XXX	Elective*	3
XXX XXX	Elective*	3
TOTAL HOURS REQUIRED		30

RECOMMENDED ELECTIVES: ENG 383, FIA 370, HIS 335, HIS 336, HIS 371, MUS 234, POS 315, SED 233, SED 420, SOC 237

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	59
Electives	9
Other Requirements	16
TOTAL DEGREE HOURS REQUIRED	124

Teacher Licensure Endorsement in Fine Arts

Students wishing to pursue a career in teaching art must take the following steps:

- Follow the curriculum for the degree in Fine Arts.
- Use elective hours for professional courses.
- See the academic advisor in their major department.
- See the academic advisor in the School of Education.
- Pass the PRAXIS I Examination in the First Year or Sophomore Year.
- Pass the PRAXIS II Examination before graduation.

NOTE: Endorsement is for K through 12.

* RECOMMENDED ELECTIVES

COURSE	COURSE TITLE
ENG 383	African-American Literature
FIA 370	African-American Art History
HIS 335	African-American History, Part 1
HIS 336	African-American History, Part 2
HIS 371	African-American Art
MUS 234	African-American Music
POS 315	African-American Politics
SED 233	Seminar in Assessment and Evaluation
SED 420	Educational Technology
SOC 237	Racial and Ethnic Minorities

Minor in Fine Arts

(For students majoring in other departments.)

COURSE	COURSE TITLE	HOURS
FIA 115	Basic Design II	3
FIA 120	Basic Drawing I	3
FIA 260	Introduction to Advertising	3
FIA 3XX	Dept. Elective (FDM or FIA)	3
FIA 3XX	Dept. Elective (FDM or FIA)	3
FIAXXX	Departmental Elective (300 or 400 level)	3
TOTAL HOURS REQUIRED		18

TOTAL DEGREE HOURS REQUIRED	18
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NOTE: All department FIA or FDM electives may be chosen from those listed in the Fine Arts Department's Handbook, the NSU Student Catalog or the NSU Schedule of Classes for each semester. The electives should be chosen after a student has consulted with his or her advisor.

FIA 115 Basic Design II, a design development course in color design, is necessary for all students. The FDM designation refers to the fashion classes, and the FIA designation refers to all of the other Fine Arts studio and history art classes.

B.A. in Visual Studies

CURRICULUM

FIRST YEAR

COURSE	COURSE TITLE	HOURS
ENG 101	College English I	3
ENG 102	College English II	3
FIA 114	Basic Design	3
FIA 115	Basic Design II	3
FIA 120	Drawing	3
FIA 280	Computer Applications	3
FIA 110	Introduction to Art History	3
HED 100	Personal & Community Health	2
SEM 101/102	Spartans Seminars 101 and 102	2
PED 100	Fundamentals of Fitness for Life	1
TOTAL HOURS REQUIRED		29

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
BIO 100	Biological Science	3
SCI 101	Introduction to Physical Science	3
SCI 101L	SCI 100L Physical Science Lab or BIO 100L Biology Lab	1
FIA 234	Painting	3
FIA 201	Basic Art Appreciation	3
FIA 295	Sophomore Review	1
HUM 210	Humanities or HUM 211	3
FIA 220	Life Drawing	3
FIA 240	Sculpture, Carving & Welding	3
SOC 101	Introduction to Social Science	3
HIS 100	History of World Societies, Part I	3
MTH 103	Mathematics in General Education	3
TOTAL HOURS REQUIRED		33

RECOMMENDED ELECTIVES: ENG 383, FIA 370, HIS 335, HIS 336, HIS 371, MUS 234, POS 315, SED 233, SED 420, SOC 237

THIRD YEAR

COURSE	COURSE TITLE	HOURS
XXX XXX	General Education Elective	3
FIA XXX	Fine Arts Elective	3
FIA 270	History of Art Survey I	3
FIA 271	History of Art Survey II	3
FIA XXX	Fine Arts Elective	3
FIA 370	African-American Art History	3
ENG 285	Public Speaking	3
XXX XXX	General Education Elective	3
FIA XXX	Fine Arts Elective	3
XXX XXX	Cultural Elective*	3
TOTAL HOURS REQUIRED		30

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
XXX XXX	General Education Elective	3
FIA 465	Studio Workshop 1	3
FIA 466	STudio Workshop 2	3
FIA 491	Internship - Adv. Studio Problem	3
FIA 470	Modern Art History	3
FIA 467	Studio Workshop 3	3
FIA 468	Studio Workshop 4	3
XXX XXX	General Education Elective	3
FIA 495	Portfolio Prep/Senior Exhibition	2
TOTAL HOURS REQUIRED		29

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	63
Electives	18
TOTAL DEGREE HOURS REQUIRED	121

DEPARTMENT OF VISUAL AND PERFORMING ARTS

Dr. Sam Dorsey
Department Head
(757) 823 - 8544

MUSIC DIVISION

Mr. Gregory Gardner
Program Coordinator
(757) 823 – 8581

The Division of Music offers one undergraduate degree with two emphases and one graduate degree with three concentrations. The Bachelor of Music in Music Education is designed to prepare teachers of music in elementary and secondary schools. The program includes theoretical and applied music studies, general studies, music history, literature, methodology, and practicum with concentration in Voice, Keyboard and Band/Orchestral instruments.

The Bachelor of Music with an Emphasis in Media is designed to expand the career preparation of students by providing knowledge, skills, and practical experience central to the needs of the music industry as represented by the broadcast and recording media. The program includes courses in Music and Mass Communications.

Eligibility to major in music is determined by the Music faculty on the basis of musical background and experience, results of auditions and tests, and general qualifications to pursue music as a major field. The Music Division is an accredited institutional member of the National Association of Schools of Music.



UNDERGRADUATE ADMISSION TO MUSIC

All students who desire entry into programs in music must audition. The audition can be arranged by contacting the music office or any music faculty member. Upon acceptance into the University, the candidate's request to enter Pre – Music is granted conditionally by the Office of Admission. However, final approval is granted by the Division of Music.

At freshman orientation, diagnostic examinations in music fundamentals and sight-singing, an audition on a principal instrument (if not previously auditioned), and a piano placement examination is conducted. The document Auditions and Preliminary Tests in Music on the Division of Music website should be reviewed prior to freshman orientation. Consequently, approved candidates are enrolled in the Pre – Music Curriculum. Taken during the first semester of enrollment, these courses are utilized to canvass the potential of the candidate to fulfill the requirements of the Bachelor of Music (B. M.) curriculum. The courses in the Pre – Music Curriculum are also a part of the Bachelor of Music degree.

Pre – Music Curriculum

<u>Course Number</u>	<u>Course</u>	<u>Hours</u>
MUS 140	Fundamentals of Music	3
MUS 103	Recitals Class	0
MUS 125	Applied Major	2
MUS 100B/MUS 121B	Applied Minor	1
MUS 110	Ensemble	1
ENG 101	College English I	3
SEM 101	Spartan Seminar 101	1
MTH 103	Contemporary Math	3
HED 100	Personal & Community Health	2
		<hr/>
		TotalHours: 16

If the Diagnostic Examination is completed successfully, the sequence below is taken.

<u>Course Number</u>	<u>Course</u>	<u>Hours</u>
MUS 145	Harmony and Keyboard	2
MUS 141	Sight Singing and Ear	2
MUS 125	Training Applied Major	2
MUS 103	Recitals Class	0
MUS 100B/MUS 121B	Applied Minor	1
MUS 110	Ensemble	1
ENG 101	College English I	3
SEM 101	Spartan Seminar 101	3
MTH 103	Contemporary Math	3
HED 100	Personal & Community Health	2
		<hr/>
		TotalHours: 17

Following mid-semester course examinations, a committee comprised of the student's major teacher, theory instructor, and ensemble director will provide a preliminary recommendation to the Director of the Division for program (B. M.) admission. Final approval is forwarded to the Chair by the Committee upon the successful completion of the Pre-music track.

Bachelor of Music in Music Education -- Instrumental/ Keyboard/ Vocal

CURRICULUM

FIRST YEAR

COURSE	COURSE TITLE	HOURS
ENG 101	College English I	3
ENG 102	College English II	3
MTH 103	Mathematics in General	3
MUS 103	Recitals Class	0
MUS 104	Recitals Class	0
MUS 110	Ensembles*	1
MUS 111	Ensembles*	1
MUS 121	Applied Minor	1
MUS 122	Applied Minor	1
MUS 125	Applied Major	2
MUS 126	Applied Major	2
MUS 131	Music Literature**	2
MUS 132	Music Literature**	2
MUS 141	Sight, Singing and Ear Training	2
MUS 142	Sight, Singing and Ear Training	2
MUS 145	Harmony and Keyboard	2
MUS 146	Harmony and Keyboard	2
HED 100	Personal & Community Health	2
SEM 101/102	Spartan Seminars 101 and 102	2
TOTAL HOURS REQUIRED		33

SECOND YEAR

COURSE	COURSE TITLE	HOURS
CLM 165	Computer Literacy for Musicians	3
PED 100	Fundamentals of Fitness for Life	1
MUS 151	Elementary Conducting	2
MUS 203	Recitals Class	0
MUS 204	Recitals Class	0
MUS 210	Ensembles*	1
MUS 211	Ensembles*	1
MUS 221	Applied Minor	1
MUS 222	Applied Minor	1
MUS 225	Applied Major	2
MUS 226	Applied Major	2
MUS 241	Sight, Singing and Ear Training	2
MUS 242	Sight, Singing and Ear Training	1
MUS 245	Harmony and Keyboard	2
MUS 246	Harmony and Keyboard	2
MUS 260	Band Instrument Survey(Vocal/ Keyboard)/ MUS 261	1
	Percussion Class (Instrumental)	
MUS 271	Vocal Diction (Vocal and Keyboard)/ MUS 361 Woodwind Class (Instrumental)	1
MUS 272	Vocal Diction (Vocal)/ MUS 273	1
	Voice Class (Instrumental/ Keyboard)	
MUS 161	String Class (Instrumental) or Music Elective (Keyboard/ Vocal)	1
EDU 201	Foundations of Education	3
PSY 228	Developmental Psychology	3
SEM 201	Spartan Seminar 201	1
TOTAL HOURS REQUIRED		32

THIRD YEAR

COURSE	COURSE TITLE	HOURS
BIO 100	Biological Science or SCI 101	3
BIO 100L	Biological Science Lab or PHY 100L	1
HIS 100	History of World Societies, Part 1 or HIS 101 or HIS 102 or HIS 103	3
MUS 234	African American Music	3
MUS 303	Recitals Class	0
MUS 304	Recitals Class	0
MUS 310	Ensembles*	1
MUS 311	Ensembles*	1
MUS 325	Applied Major	2
MUS 326	Applied Major	2
MUS 331	Music History**	2
MUS 332	Music History**	2
MUS 346	Composition or MUS 247	3
MUS 351	Advanced Conducting	2
MUS 362	Brasswind Class (Instrumental or music elective, Vocal and Keyboard)	1
MUS 383// MUS 383V	Curriculum and Instructional Procedures for Teaching Music in the Public Schools (Vocal or Instrumental)	2
MUS 384// MUS 384V	Curriculum and Instructional Procedures for Teaching Music in the Public Schools (Vocal or Instrumental)	2
SED 405	Reading in the Content Area	3
TOTAL HOURS REQUIRED		33

** Satisfies the core humanities requirement.

++ In addition to MUS 234, satisfies the core cultural requirement.

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
MUS 403	Recitals Class	0
MUS 410	Ensemble*	1
MUS 425	Applied Major/Recitals	2
MUS 426	Applied Major/Recitals***	2
SED 499	Directed Teaching	12
PHY 154	Physics of Music	3
ENG 285	Public Speaking	3
EDU 381	Classroom and Behavior Management	3
SOC 110	Introduction to Sociology or SOC 100 or SOC 101	3
TOTAL HOURS REQUIRED		29

***Senior Recital or Senior Jury Required

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	87
Electives	0
Other Requirements	0
TOTAL DEGREE HOURS REQUIRED	127

Bachelor of Music Education

* ENSEMBLES

The minimum ensemble requirement for Music Education majors who play band instruments is four semesters of University Band and three semesters of other instrumental ensembles such as jazz ensemble/combo, or percussion, woodwind, or brass ensemble.

Instrumental/ Keyboard/ Vocal

** PROFESSIONAL EDUCATION CORE COURSES

Students must pass the PRAXIS I and II tests prior to applying for admission to MUS-383 and MUS-384

– Methods in Public School Music.

SED 499

Directed Teaching (Secondary Level/Elementary level) may be taken before taking the PRAXIS Exam.

Bachelor of Music -- Media

CURRICULUM

FIRST YEAR

COURSE	COURSE TITLE	HOURS
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
MTH 103	Mathematics in General Ed.	3
MUS 103	Recitals Class	0
MUS 104	Recitals Class	0
MUS 110	Ensembles *	1
MUS 111	Ensembles *	1
MUS 121	Applied Minor	1
MUS 122	Applied Minor	1
MUS 125	Applied Major	2
MUS 126	Applied Major	2
MUS 131	Music Literature**	2
MUS 132	Music Literature**	2
MUS 141	Sight, Singing and Ear Training	2
MUS 142	Sight, Singing and Ear Training	2
MUS 145	Harmony and Keyboarding	2
MUS 146	Harmony and Keyboarding	2
SEM 101/102	Spartan Seminars 101 and 102	2
TOTAL HOURS REQUIRED		33

SECOND YEAR

COURSE	COURSE TITLE	HOURS
BIO 100	Biological Science	3
BIO 100L	Biological Science Lab	1
CLM 165	Computer Literacy	3
MUS 203	Recitals Class	0
MUS 204	Recitals Class	0
MCM 211	Society and Mass Communications	3
MUS 240	Progressive Harmony	3
MUS 210	Ensembles*	1
MUS 211	Ensembles*	1
MUS 241	Sight, Singing and Ear Training	2
MUS 221	Applied Minor	1
MUS 222	Applied Minor	1
MUS 225	Applied Major	2
MUS 226	Applied Major	2
MUS 151	Elementary Conducting	2
PED 100	Fundamentals of Fitness for Life	1
HIS 100	U.S. History (or HIS 101, 102, 103)	3
SEM 201	Spartan Seminar 201	1
TOTAL HOURS REQUIRED		30

THIRD YEAR

COURSE	COURSE TITLE	HOURS
MUS 265	Practical Applications of Electronic Music (Midi)	3
MUS 234	African American Music++	3
MUS 310	Ensembles*	1
MUS 311	Ensembles*	1
MUS 243	Melody and Improvisation	3
MUS 303	Recitals Class	0
MUS 304	Recitals Class	0
MUS 325	Applied Major	2
MUS 326	Applied Major	2
MUS 331	Music History	2
MUS 332	Music History	2
MUS 335	Jazz Literature and Criticism	3
MUS 346	Composition or MUS 247 Twentieth Century	3
PHY 154	Physic of Music	3
ENG 285	Public Speaking	3
TOTAL HOURS REQUIRED		31

**4 semesters of Music Literature/History satisfy the Humanities core requirements

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
MCM 261	Introduction to Media Writing	3
MUS 365	Recording Music Production	3
MUS 403	Recitals Class	0
MUS 440	Legal Protection of Music & Musicians	3
MUS 366	Music Video	3
MUS 410	Ensembles*	1
MUS 367	Pro tools	3
MUS 425	Applied Major/Recitals	2
MUS 426	Applied Major/Recitals***	2
MUS 448	Arranging	2
MCM 496	Internship	3
MUS 493	Internship	3
TOTAL HOURS REQUIRED		28

***Senior Recital or Senior Jury Required

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	82
Electives	0
Other Requirements	0
TOTAL DEGREE HOURS REQUIRED	122

The two semesters of MUS 131 and MUS 132, and MUS 234 serve as the Humanities requirement in the General Education Core. MCM 211 also serves as the Social Science requirement in the General Education Core.

*** ENSEMBLES**

The minimum ensemble requirement for instrumental students whose major is Bachelor of Music with an Emphasis in Media is five consecutive semesters in the University Jazz Ensemble and two semesters of either Symphonic/Concert Band or small instrumental ensembles. If a student enters this curriculum below the level of proficiency required to enroll in the University Jazz Ensemble, he or she can use no more than two ensemble credits in the Jazz Laboratory Band toward fulfilling ensemble requirements. The minimum ensemble requirement for vocal students whose major is Bachelor of Music with an Emphasis in Media is met by four consecutive semesters of Concert Choir and three semesters of Vocal Jazz Ensemble.

COLLEGE OF SCIENCE, ENGINEERING AND TECHNOLOGY

Dr. Michael Keeve, Dean

Dr. Mushtaq A. Khan, Associate Dean (I)
(757) 823-8180

The College of Science, Engineering and Technology is a dynamic school. It has been, and remains, a major force for change within the University as an innovator and initiator of most of the high demand and high technological programs on campus. It is represented by a wide array of course selections in eight (8) major areas: Computer Science, Engineering, Health Sciences, Mathematics, Natural and Applied Sciences, Nursing, Naval Science, and Technology. Through the initiative of Norfolk State University's president, the College has also embarked upon a program for excellence in science called the Dozoretz National Institute for Mathematics and Applied Sciences (DNIMAS). The Institute accepts only exceptionally prepared students. Entrance into the Institute is through special application. The school commits to accountability in providing excellence in instruction through departmental programs which integrate communication, mathematics, science, technology, and professional concerns, while addressing a wide spectrum of individual needs and abilities. The overall mission of the College of Science, Engineering and Technology is as follows:

1. To develop humanistic and competent professionals who can serve as science and technology specialists and health-care providers.
2. To apply state-of-the-art scientific research and technological know-how to the problems and needs of the region and the nation.
3. To foster scholarship and leadership in the sciences, in technology, in engineering, and in health professions in the community.

ACCREDITATION/APPROVALS

The following programs, sponsored by the College of Science, Engineering, and Technology, have been approved by the State Council of Higher Education for Virginia (SCHEV). They have also been accredited and/or approved by appropriate national accrediting agencies.

1. Computer Science

The Computing Accreditation Commission of ABET. <http://www.abet.org>

2. Chemistry

American Chemical Society (ACS)
1155 Sixteenth Street, N.W., Washington, DC 20036, (202) 872-4589. <http://www.acs.org/cpt>

3. Engineering

The Engineering Accreditation Commission of ABET, 415 N. Charles St., Baltimore, MD 21210 (410)347-7700. <http://www.abet.org>

4. Food Science and Nutrition Concentration

Accreditation Council for Education in Nutrition and Dietetics (ACEND), 120 S. Riverside Plaza, Suite 2190, Chicago, IL 60606-6995, (800)577-1600. <http://www.eatrightpro.org>

5. Medical Technology

National Accrediting Agency for Clinical Laboratory Science (NAACLS), 5600 N. River Road, Suite 720 Rosemont, Illinois 60018-5119 (773)714-8880. www.naacls.org

6. Nursing B.S.

Accreditation Commission for Education in Nursing (ACEN), 3343 Peachtree Road, NE, Suite 850 Atlanta, GA 30326 (404) 975-5000; Fax: (404) 975-5020 and the Virginia Board of Nursing, Perimeter Center, 9960 Maryland Drive, Suite 300, Henrico, VA 23233-1463 (804) 367-4515. www.acenursing.org

7. Technology

The Association of Technology, Management, and Applied Engineering (ATMAE), 275 N. York Street Suite 401, Elmhurst, Illinois 60126, (630) 433-4514. <http://www.atmae.org>

ORGANIZATION OF THE COLLEGE

The courses offered by the College of Science, Engineering, and Technology are organized into departments, which sponsor a wide array of possibilities for students. The following departments are included:

Department of Biology
Department of Chemistry
Department of Computer Science
Department of Engineering
Department of Mathematics
Department of Nursing and Allied
Health Department of Physics
Department of Technology

DEGREES OFFERED

The College of Science, Engineering, and Technology offers programs terminating at the associate, baccalaureate master, and doctorate degree levels. Students admitted to the College of Science, Engineering, and Technology may choose from fields of study in programs terminating at the associate, baccalaureate, master, or doctorate degree levels. Undergraduate programs leading to the Bachelor of Science degree generally require a minimum of 120 semester hours of credit.

ADMISSION REQUIREMENTS

Admission to Norfolk State University does not imply automatic admission to the following programs:

1. DNIMAS
2. Engineering
3. Medical Technology
4. Nursing

ADMISSION TO MEDICAL TECHNOLOGY PROFESSIONAL PHASE

1. Students must seek application through the Medical Technology Admissions Committee.
2. Students must complete all prerequisite courses by the end of the semester preceding the Clinical Phase.
3. Students must have a minimum science G.P.A. of 2.0.
4. Students must submit three letters of recommendation from persons familiar with the students' ability.

ADMISSION TO NURSING

1. Admission to University prior to semester of the desired entry into the nursing sequence.
2. Submission of a separate application for admission to the Nursing Department.
3. Students must complete two units of high school or higher mathematics (including one unit of algebra), one unit of biology, and one unit of chemistry with a minimum G.P.A. of 2.0 in each course.
4. Students must have a cumulative G.P.A. of 2.5 or better in high school or course work.
5. For admission to the Traditional Program, students must have a cumulative grade point average of 2.8 and a minimum grade of "C" in all prerequisite courses. Students must complete the National League of Nursing (NLN) RN Preadmission Exam. (See Nursing Program for additional criteria).
6. For admission to the Upper Level Baccalaureate Program (RN-Completion), student must be licensed in the Commonwealth of Virginia as a RN.
7. For admission to the 2nd Degree Program, student must have completed an undergraduate or higher degree and defined pre-requisites.
8. For admission to the LPN to BSN Program, student must be licensed in the Commonwealth of Virginia as a LPN and must have completed defined prerequisites.

DEPARTMENT OF BIOLOGY

Dr. Malikah Abdullah-Israel,
Department Head
(757) 823-8512

The Biology Department provides a diversity of career options through three courses of study that lead to a Bachelor of Science degree in Biology.

The objectives of the Department are as follows:

1. To prepare students for careers in biology.
2. To provide students with pre-professional training for dentistry, medicine, veterinary medicine, podiatry, osteopathy, optometry, and various allied health options.
3. To provide learning experiences in biology for students majoring in other disciplines.

Students who earn a B.S. degree in any of the three areas also have the option of completing a Biotechnology Certificate Program.

The three B.S. option areas are as follows:

1. **BIOLOGY 1** enables majors to pursue graduate degrees with an option for employment at the bachelor level.
2. **BIOLOGY 2** students will follow Option 1 then seek specific endorsement. (e.g., teachers' licensure)
3. **BIOLOGY 3 PRE-PROFESSIONAL** provides a background for students having an interest in medicine, dentistry, veterinary medicine, optometry, pharmacy, osteopathy, and podiatry.

BIOTECHNOLOGY CERTIFICATE

The curriculum includes 15 credit hours of approved laboratory work in molecular biology/genomics, cell biology, and proteins and proteomics. The program is designed for the continuing education of research technicians with baccalaureate degrees who work in academic and industrial laboratories, new college graduates who want to enhance their knowledge and undergraduates who are interested in developing skills in the latest biotechnology techniques.

Students who successfully complete the requirements for either of the three above models will be considered Biology majors. A grade of "C" or better is required in all courses of the major group. The major group includes all required science and mathematics courses, and this definition is applicable to all students who enrolled in the Department beginning in the Fall Semester of 1989 and thereafter.

B.S. in Biology**BIOLOGY 1 CURRICULUM****FIRST YEAR**

COURSE	COURSE TITLE	HOURS
SEM 101/102	Spartan Seminars 101 and 102	2
BIO 110/110L	General Biology I	4
BIO 111/111L	General Biology II	4
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
HIS XXX	HIS 100 or POS 100 or SOC 100	3
MTH 151	College Algebra	3
MTH 153	College Algebra and Trigonometry	3
PED 100	Fundamentals of Fitness for Life	1
TOTAL HOURS REQUIRED		28

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
BIO 260/260L	Integrative Zoology	4
BIO 261/261L	General Botany	4
BIO XXX BIO XXXL	BIO 271/271L or BIO 278/278L or BIO 350/350L	4
CHM 221	General Chemistry I	3
CHM 222	General Chemistry II	3
CHM 221L	General Chemistry I Lab	1
CHM 222L	General Chemistry II Lab	1
CSC 150	Computer Literacy or CSC 200 Advanced Computer Concepts	3
XXX 111	Intro to French, Spanish, German or Arabic	3
XXX 112	Intro to French, Spanish, German or Arabic	3
ENG 285	Public Speaking	3
TOTAL HOURS REQUIRED		33

All Biology courses require students to take both lecture (3 credits) and lab (1 credit) with the exception of BIO 364 and BIO 495. The lab for BIO 474L is 2 credits.

THIRD YEAR

COURSE	COURSE TITLE	HOURS
BIO 263/263L	Vertebrate Embryology	4
BIO XXX BIO XXXL	BIO 270/270L or BIO 272/272L	4
BIO 310/310L	General Microbiology	4
CHM 321	Organic Chemistry I	3
CHM 321L	Organic Chemistry I Lab	2
CHM 322	Organic Chemistry II	3
CHM 322L	Organic Chemistry II Lab	2
PHY 152/152L	General Physics I	4
PHY 153/153L	General Physics II	4
XXX	Cultural Elective*	3
TOTAL HOURS REQUIRED		33

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
BIO 351/351L	Principles of Genetics	4
BIO 364	Seminar and Colloquium in Biology	1
BIO XXX/ XXXL	BIO 459/459L or BIO 461/461L	4
BIO 474	Molecular Biology	3
BIO 474L	Molecular Biology Lab	2
BIO 495	Biostatistics	3
XXX XXX	Humanities Elective FIA 201 or HUM 210 or MUS 301	3
XXX XXX	Cultural Elective*	3
XXX XXX	Free Elective	3
TOTAL HOURS REQUIRED		26

* Select from ENG 383, FIA 170, HIS 335, HIS 336, HRP 320, or MUS 234.

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	42
Major Requirements	49
Electives	3
Other Requirements	26
TOTAL DEGREE HOURS REQUIRED	120

Teacher Licensure Endorsement in Biology

BIOLOGY 2 CURRICULUM

FIRST YEAR

COURSE	COURSE TITLE	HOURS
SEM 101/102	Spartan Seminars 101 and 102	2
BIO 110	General Biology I	3
BIO 110L	General Biology I Lab	1
BIO 111	General Biology II	3
BIO 111L	General Biology II Lab	1
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
HIS 100	History of World Societies, Part 1	3
MTH 151	College Algebra	3
MTH 153	College Algebra and Trigonometry	3
PED 100	Fundamentals of Fitness for Life	1
CSC 150	Computer Literacy or CSC 200 Advance Concepts	3
TOTAL HOURS REQUIRED		31

THIRD YEAR

COURSE	COURSE TITLE	HOURS
BIO 351	Principles of Heredity	4
BIO 351L		
BIO 310	General Microbiology	4
BIO 310L		
CHM 321	Organic Chemistry I	3
CHM 321L	Organic Chemistry I Lab	2
CHM 322	Organic Chemistry II	3
CHM 322L	Organic Chemistry II Lab	2
PHY 152	General Physics	3
PHY 152L	General Physics Lab	1
PHY 153	General Physics II	3
PHY 153L	General Physics II Lab	1
BIO 272	Human Anatomy	4
BIO 272L		
SED 381	Classroom and Behavior Management	3
SED 385	Curriculum and Instruction Procedures for Teaching	3
TOTAL HOURS REQUIRED		36

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
BIO 260	Integrative Zoology	3
BIO 260L	Integrative Zoology Lab	1
BIO 261	General Botany	3
BIO 261L	General Botany Lab	1
BIO 271	Ecology	4
BIO 271L	Ecology Lab	
CHM 221	General Chemistry I	3
CHM 222	General Chemistry II	3
CHM 221L	General Chemistry I Lab	1
CHM 222L	General Chemistry II Lab	1
EDU 201	Foundations of Education	3
HUM 210	Humanities	3
XXX	Cultural Elective*	3
XXX 111	Introduction to French, Spanish, German or Arabic	3
ENG 285	Public Speaking	3
TOTAL HOURS REQUIRED		36

* SELECT FROM ENG 383, FIA 370, HIS 335, HIS 336, HRP 320, OR MUS 234.

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
BIO 278	Cell Biology	4
BIO 278L		
BIO 459	General Physiology	4
BIO 459L		
BIO 364	Seminar in Biology	1
SED 405	Reading in the Content Area	3
SCI 401	Geological Material and Processes	4
EDU 486	Human Growth and Development	3
SED 499	Directed Teaching	12
TOTAL HOURS REQUIRED		31

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	34
Restricted Electives	33
Education	27
TOTAL DEGREE HOURS REQUIRED	134

B.S. in Biology -- Pre-Professional**BIOLOGY 3 CURRICULUM****FIRST YEAR**

COURSE	COURSE TITLE	HOURS
SEM 101/ 102	Spartan Seminars 101 and 102	2
BIO 110/ 110L	General Biology I	4
BIO 111/ 111L	General Biology II	4
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
HIS XXX	HIS 100 or POS 100 or SOC 110	3
MTH 151	College Algebra	3
MTH 153	College Algebra and Trigonometry	3
PED 100	Fundamentals of Fitness for Life	1
TOTAL HOURS REQUIRED		28

THIRD YEAR

COURSE	COURSE TITLE	HOURS
BIO XXX BIO XXXL	BIO 270/270L or BIO 272/272L	4
BIO 263 BIO 263L	Vertebrate Embryology	4
BIO 270/ BIO 270L	Comparative Vertebrate Anatomy & Physiology	4
BIO 310/ 310L	General Microbiology	4
CHM 321	Organic Chemistry I	3
CHM 322	Organic Chemistry II	3
CHM 321L	Organic Chemistry I Lab	2
CHM 322L	Organic Chemistry II Lab	2
PHY 152	General Physics I	3
PHY 153	General Physics II	3
PHY 152L	General Physics I Lab	1
PHY 153L	General Physics II Lab	1
TOTAL HOURS REQUIRED		34

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
BIO 260/ 260L	Integrative Zoology	4
BIO 261/261L	General Botany	4
BIO XXX	BIO 271/271L or BIO 278/278L, or BIO 350/350L or BIO 362/362L	4
CHM 221/ 221L	General Chemistry I and Gen. Chemistry I Lab	4
CHM 222/222L	General Chemistry II and Gen. Chemistry II Lab	4
MTH 184	Calculus	4
XXX 111	Introduction to French, Spanish, German or Arabic	3
XXX 112	Introduction to French, Spanish, German or Arabic	3
ENG 285	Public Speaking	3
TOTAL HOURS REQUIRED		34

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
BIO XXX BIO XXXL	BIO 459/459L or BIO 461/461L	4
BIO 351 BIO 351L	Principles of Genetics	4
BIO 364	Seminar and Colloquium in Biology	1
XXX	Humanities Elective FIA 201 or HUM 210 or MUS 301 or ENG 207	3
BIO 469	Biochemistry I	3
BIO 469L	Biochemistry I Lab	1
XXX	Cultural Elective*	6
XXX	Free Elective	3
TOTAL HOURS REQUIRED		25

All Biology courses require students to take both lecture (3 credits) and lab (1 credit) with the exception of BIO 364 and BIO 495. The lab for BIO 474 is 2 credits.

* Select from ENG 383, FIA 370, HIS 335, HIS 336, HRP 320, or MUS 234.

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	45
Major Requirements	46
Electives	3
Other Requirements	26
TOTAL DEGREE HOURS REQUIRED	120

Certificate Program in Biotechnology

To be eligible for admission to the Biotechnology Certificate Program a student must complete the following:

1. Apply for admission to the Biotechnology Program.
2. Have completed all pre-requisite course work for courses related in the program.
3. Have an overall cumulative grade point average of 2.8 on a 4.0 scale

COURSE WORK

OPTION 1

COURSE	COURSE TITLE
BIO 474	Molecular Biology: Three credit hours. Prerequisites- BIO 351 Principles of Genetics, BIO 310, CHM 222, CHM 222L
BIO 474L	Molecular Biology Laboratory; Two credit hours. Prerequisite – BIO 474
BIO 499	Tissue and Cell Culture: Four credit hours. Prerequisites - Consent of Instructor
BIO 510	Experience in Biology: Three credit hours. Prerequisite – BIO 110, General Biology
BIO 520	Special Problems in Biology: Three credit hours. Prerequisite - BIO 110, General Biology
BIO 469	Biochemistry I Lecture: Three credit hours; Prerequisites CHM 322 and Biochemistry I Lab
BIO 469L	One credit hour; Prerequisites CHM 322L

OPTION 2

COURSE	COURSE TITLE
CHM 431	Biochemistry I: Three credit hours. Prerequisites – CHM 322 and CHM 362
CHM 431L	Biochemistry I Laboratory; One credit hour. Prerequisites – CHM 322L or CHM 323L
CHM 432	Biochemistry II: Three credit hours. Prerequisites – CHM 322 and CHM 362
CHM 432L	Biochemistry II Laboratory: One credit hour. Prerequisites – CHM 322L or CHM 323L
CHM 481	Special Topics in Chemistry: Three credit-hour Prerequisites - Approval of Chemistry Department

Minor in Biology

Completion of a minor requires that a student earn a grade of "C" (2.0) or better in each of the required courses. Substitutions are not possible for core courses. Biology courses have prerequisites so students should consult with the Biology Chair regarding prerequisite requirements for the minor.

(SELECT ONE COURSE FROM BELOW, LECTURES AND LABS MUST BE TAKEN TOGETHER UNLESS YOU HAVE CONSENT OF INSTRUCTOR TO TAKE LECTURE ONLY)

CORE COURSES

COURSE	COURSE TITLE	HOURS
BIO 110	General Biology I	3
BIO 110L	General Biology Lab	1
BIO 111	General Biology II	3
BIO 111L	General Biology II Lab	1
BIO 260	General Zoology	3
BIO 260L	General Zoology Lab	1
BIO 261	General Botany	3
BIO 261L	General Botany Lab	1
TOTAL HOURS REQUIRED		16

ADDITIONAL COURSE REQUIREMENTS

COURSE	COURSE TITLE	HOURS
BIO 272 BIO 272L	Human Anatomy	4
BIO 278 BIO 278L	Cell Biology	4
BIO 310 BIO 310L	General Microbiology	4
BIO 351 BIO 351L	Genetics	4
BIO 474 BIO 474L	Molecular Biology	5
BIO 495	BioStatistics	3
BIO XXX BIO XXXL	BIO 461/461L or BIO 469/469L or BIO 459/459L or BIO 499/499L	4
TOTAL HOURS REQUIRED		3 - 6

TOTAL DEGREE HOURS REQUIRED 19 - 22

National Security Certificate (NSC) Program

Dr. Camellia Moses Okpodu, Director
Defense Intelligence Agency's (DIA) Designated
Intelligence Community Center for Academic Excellence (IC-CAE)
(757) 823-8957

icca@nsu.edu
www.nsu.edu/iccae

Today's global market has changed the landscape for business and science and technology professionals. The need to understand the competition, changing trends, and economic, cultural, and political conditions worldwide makes the ability to gather information in an ethical manner essential. The IC-CAE supports strategic languages in Chinese, Japanese and Arabic. The certificate in National Security is a 18 credit hour program designed to provide a theoretical and practical framework for the study of intelligence and its application in a wide variety of contexts.

The NSU IC-CAE emphasis is critical language acquisition, as well as, and exposure of the IC scholars in intelligence and homeland security issues with career professionals who work in the field of security and intelligence. The IC-CAE is a workforce enhancement initiative aimed at assisting selected scholars for career development opportunities for employment within that field.

OBJECTIVES

The IC-CAE offers an undergraduate national security certificate program that focuses on "Preparing leaders for America's Global Markets." Specifically, to provide curricular offerings that allow students to develop a comprehensive approved capstone project that allows them to understand a contemporary security and intelligence issue by using critical skills learned in their coursework. Emphasis is placed on relating and analyzing contemporary problems and policy questions in general.

The ICCAE program certificate program can be a stand-alone program that allows the recipient to become professionalized in intelligence analysis skills, including critical thinking and analysis, and a greater ability to evaluate and assess disparate sources of sometimes conflicting information.

Work opportunities exist for the students in the government, private sector and graduate/professional school. Since its beginning recipients of the program have found internships and/or employment with

- Defense Intelligence Agency
- Federal Bureau of Investigations
- National Security Agency
- Central Intelligence Agency
- National Institutes of Science

The above are just a few of the many programs that the federal government has for individuals who are motivated to become intelligence professionals. Many of these are competitive, however, so it helps to earn a certificate that shows your determination to join the intelligence community. Even if you already have a degree in a certain field, going back to school to earn an intelligence specific degree will greatly increase your chances.

An academically challenging discipline, it combines a liberal arts core with a foreign language, national and international studies, internships, and ten intelligence-related courses to provide its graduates with an advanced level of analytical skills. Since 2006 when this certificate began, more than 100 students from throughout the U.S. have enrolled in this undergraduate program.

The Intelligence Studies degree is designed to provide the necessary background for students to pursue careers as research and/or intelligence analysts in government agencies and private enterprise. The work of these analysts, whether relating to national security, law enforcement or business activities, involves the preparation of assessments based on the collection, correlation, and analysis of intelligence data.

Desired Candidates to become an IC Scholar

A successful candidate for the National Security Certificate and the designation of IC Scholar at NSU should maintain high academic achievement (3.2 or better GPA) and have:

- An inquiring mind, an interest in history, government and world around them and be an avid reader and have the ability to communicate.
- A commitment to personal development and desire to acquire the knowledge necessary to attain professional skills.

- A willingness to work independently and/or in a team environment.
- The willingness to be financially responsible and pass a criminal background check for future employment opportunities.

Program Objectives

Upon completion of the national security certificate program, a candidate will have:

- Analytical skills which are applicable to the national security, biosecurity, law enforcement, and homeland security communities.
- Reading competency in a foreign language.
- A broad understanding of world and American history and politics.
- The ability to produce written and oral reports and assessments based on research, correlation, and analysis.

Today, thousands of researchers and intelligence analysts work throughout the United States and abroad in government agencies and private enterprises. The work of these intelligence analysts whether relating to national security, criminal investigative activities, or terrorism, involves the preparation of assessments based on the collection, correlation, and analysis of information.

Program Application

Students interested in the national security certification must complete an application. In addition, they must provide a copy of their transcript, two essays (one targeted as to their future career goals in national security and one focused on the critical language they have chosen and why they want to participate as an IC Scholar and what benefits that they expect to gain from acquiring a critical language). The application can be found online at www.nsu.edu/iccae.

CURRICULUM

COURSE	COURSE TITLE	HOURS
INS 400 OR FRN (REQUIRED) CED 250	Fundamentals of Intelligence (or applied Intelligence Research	3
	Methods) Critical Foreign Languages (Arabic, Chinese, Japanese,	3
	Career Seminar – special emphasis in biosecurity and biotechnology	1
	TOTAL HOURS REQUIRED	7

COURSE	COURSE TITLE	HOURS
ELECTIVE FRN (REQUIRED)	Selected from approved course list	3
	Critical Foreign Languages (Arabic, Chinese, Japanese,	3
	TOTAL HOURS	6

COURSE	COURSE TITLE	HOURS
CAPSTONE OR CULTURAL IMMERSION	Culture Immersion Capstone Experience on approved topic	2
	TOTAL HOURS	2

COURSE	COURSE TITLE	HOURS
ELECTIVE COURSE	Selected from approved course list	3
	TOTAL HOURS REQUIRED	3

TOTAL DEGREE HOURS REQUIRED	18
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- * The foreign language courses described within the certificate program can be substituted for the humanities requirement in the general education core. Also students can get approval for other languages however they have to be recognized as critical languages as described by the Department of State. The national security certificate can be earned by students participating in the program sponsored by the Intelligence community Center for Academic Excellence by using the current general educational requirements from their major as well as technical, cultural and, unrestricted electives. The courses selected for the NSC must include at least 9 hours of 300 or 400 level course work. Capstone or senior level courses in the participating programs may also be accepted for inclusion as an approved course under the NSC program.

The national security certificate can be offered via the mini-terms and students could complete the certification at an accelerated rate.

Foreign Languages (6 credits required)

ARB 111/ARB 112
 CHN 111/CHN 112
 JPN 111/JPN 112
 Other Critical Language Approved by program

English (Up to 6 credits)

ENG 101H/ENG 102H College English I & II
 ENG 101E/ENG 102E College English I & II
 ENG 303 Professional and Technical Writing
 ENG 306H Introduction to Literary Criticism
 ENG 318H Writing Poetry II
 ENG 342H American Literature II
 ENG 383H African American Literature
 ENG 455H Women's Studies Myths & Image

Intelligence Studies (up to 9 credits)

INS 400 Fundamental of Intelligence
 INS 401 Applied Intelligence Research
 INS 402 Theory of International Relations

Interdisciplinary Studies (up to 12 credits)

INT 308 Introduction to Interdisciplinary Studies
 INT 322 Approaches to Critical Analysis
 INT 360 Foundations of Research in Interdisciplinary Studies
 INT 375 Language and Society
 INT 411 Ideas and Their Influences
 INT 412 Contemporary Globalization
 INT 470 Senior Seminar in Interdisciplinary Studies

History (up to 6 credits)

HIS 373 East Asian Civilization
 HIS 375 Contemporary Economic Systems of Japan
 HIS 410 American Constitutional History

Political Science (up to 6 credits)

POS 315H African-American
Politics POS 323 Comparative
Government
POS 325/327 American Foreign Policy
POS 360 International
Relations POS 442
International Law

Mass Communications (up to 6 credits)

MCM 310H History of Mass Communications
MCM 445H Ethics in Media
MCM 450H Mass Communications Theory

Religion (up to 3 credits)

REL 200 Major World
Religions REL 420
Sociology of Religion

Economics (3 credits)

EEN 411 Engineering Economics

Marketing (3 credits)

MKG 367H Consumer Identification and Analysis

Music (3 credits)

MUS 301H Music Appreciation

Fine Arts (3 credits)

FIA 370H African/Afro History

Practicum (3 credits)

SPE 497H Practicum in Volunteer Community Service

Seminars (up to 6 credits)

GST 445/446H (Honors Program Seminars)
APS 111/211/311/411 (Applied Sciences Seminars)

Career Capstone course (up to 6 credits)

CED 250 Career Seminar

DEPARTMENT OF CHEMISTRY

Dr. Suely Black,
Department Head
(757) 823-8403

The Department of Chemistry provides the instruction necessary for the understanding of chemistry for students seeking the B.S. degree with a major in Chemistry and supports undergraduate programs in other disciplines. The Department also provides research opportunities for students wishing to contribute to knowledge in areas of chemistry.

The Chemistry Department offers several chemistry based curricula choices leading to a B.S. degree in Chemistry: Chemistry, Chemistry with an emphasis in Pre-Medicine (not a degree in Pre-Medicine), and the dual degree B.S. in Chemistry-M.S. in Materials Science curriculum. Students wishing to teach chemistry in secondary schools must earn a B.S. degree in the Chemistry curriculum and fulfill the requirements for the Teacher Licensure Endorsement offered by the School of Education. The various curricula prepare graduates to continue their education in graduate or professional schools, or to obtain entry-level positions in industry, government, or education.

The objectives of the Department are:

1. To develop in students an appreciation of the scientific method and its use in the solution of chemical problems.
2. To develop the basic training in chemistry designed to meet the needs of students in pre-professional fields and professional fields.
3. To develop in students those qualities and abilities necessary for success in industry and in advanced degree institutions.
4. To offer sufficient specialized training beyond the generally recognized basic courses to enable a graduate with a bachelor's degree to enter directly into a professional career.

The Chemistry and the Chemistry Pre-Medicine curricula are approved by the American Chemical Society.

B.S. in Chemistry**CURRICULUM****FIRST YEAR**

COURSE	COURSE TITLE	HOURS
SEM 101/102	Spartan Seminars 101 and 102	2
CHM 231 CHM 231R	General Chemistry I & Lab	5
CHM 232 CHM 232R	General Chemistry II & Lab	5
ENG 101	College English I	3
ENG 102	Colleg English II	3
HED 100	Personal & Community Health	2
MTH 153	College Algebra and Trigonometry	3
MTH 184	Calculus I	4
CSC 170	Computer Programming	3
CSC 170L	Computer Programming Lab	1
PED 100	Fundamentals of Fitness for Life	1
TOTAL HOURS REQUIRED		32

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
CHM 321	Organic Chemistry I	3
CHM 321L	Organic Chemistry I Lab	2
CHM 322	Organic Chemistry II	3
CHM 322L	Organic Chemistry II Lab	2
CHM 331	Analytical Chemistry I	3
CHM 331L	Analytical Chemistry I Lab	2
CHM 451	Seminar or CHM 452	1
PHY 152	General Physics I	3
PHY 152L	General Physics I Lab	1
MTH 251	Calculus II	4
MTH 252	Calculus III	4
PHY 153	General Physics II	3
PHY 153L	General Physics II Lab	1
TOTAL HOURS REQUIRED		33

THIRD YEAR

COURSE	COURSE TITLE	HOURS
BIO 110 BIO 110L	General Biology & Lab	4
CHM 332	Analytical Chemistry II	3
CHM 332L	Analytical Chemistry II Lab	2
CHM 345	Math Methods and Logic	3
CHM 361	Physical Chemistry I	3
CHM 362	Physical Chemistry II	3
CHM 363L	Physical Chemistry Lab	2
CHM 451 CHM 452	Seminar & CHM 452	2
HIS XXX	History from the Core	3
ENG 285	Public Speaking	3
TOTAL HOURS REQUIRED		28

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
CHM 431	Biochemistry I	3
CHM 431L	Biochemistry 1 Lab	2
CHM 473	Advanced Inorganic Chemistry	3
CHM 497/ CHM 498	Introduction to Research (CHM 497 & CHM 498)	2
CHM XXX	Chemistry (Restrictive Electives)*	7
SOC 101	Introduction to Social Science	3
XXX XXX	Cultural Elective from the Core	6
XXX XXX	Humanities from the Core	3
TOTAL HOURS REQUIRED		29

* Select 6 hours from 400 level Chemistry Electives. Maximum of 3 total hours or research.

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	34
Major Requirements	54
Electives	7
Other Requirements	27
TOTAL DEGREE HOURS REQUIRED	122

B.S. in Chemistry -- Secondary Education**CURRICULUM****FIRST YEAR**

COURSE	COURSE TITLE	HOURS
SEM 101/102	Spartan Seminars 101 & 102	2
CHM 231	General Chemistry I & Lab	5
CHM 231R*		
CHM 232	General Chemistry II & Lab	5
CHM 232R		
CSC 170	Computer Programming	3
CSC 170L	Computer Programming Lab	1
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
HIS XXX	History Elective (from the General Education Core)	3
MTH 153	College Algebra and Trigonometry	3
MTH 184	Calculus I	4
PED 100	Fundamentals of Fitness for Life	1
TOTAL HOURS REQUIRED		35

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar	1
CHM 321	Organic Chemistry I	3
CHM 321L	Organic Chemistry I Lab	2
CHM 322	Organic Chemistry II	3
CHM 331	Analytical Chemistry I	3
CHM 331L	Analytical Chemistry I Lab	2
EDU 201	Foundations of Education	3
EDU 381	Classroom and Behavior Management	3
MTH 251	Calculus II	4
PHY 152	General Physics I	3
PHY 152L	General Physics I Lab	1
PHY 153	General Physics II	3
PHY 153L	General Physics II Lab	1
TOTAL HOURS REQUIRED		32

* May be taken during the freshman year upon the approval of the advisor.

THIRD YEAR

COURSE	COURSE TITLE	HOURS
BIO 110	General Biology	3
BIO 110L	General Biology Lab	1
CHM 332	Analytical Chemistry II	3
CHM 332L	Analytical Chemistry II Lab	2
CHM 451	Seminar	1
CHM 361	Physical Chemistry I	3
CHM 363L	Physical Chemistry Lab	2
ENG 285	Public Speaking	3
SED 385	Curriculum and Instructional Procedures in Teaching Secondary Schools	3
SOC 101	Introduction to Social Science	3
XXX XXX	Cultural Elective (from the General Education Core)	3
XXX XXX	Humanities Elective (from the General Education Core)	3
TOTAL HOURS REQUIRED		30

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
CHM 497	Introduction to Research or CHM 498	1
CHM 431	Biochemistry	3
CHM 452	Seminar	1
CHM 473	Advanced Inorganic Chemistry	3
PSY 228	Human Growth and Development	3
SED 405	Reading in the Content Areas	3
SED 499	Directed Teaching	3
XXX XXX	Electives	2
XXX XXX	Cultural Elective (from the General Education Core)	3
XXX XXX	Humanities Elective (from the General Education Core)	3
TOTAL HOURS REQUIRED		25

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education	40
Core Major	42
Requirements Electives	17
Other Requirements	23
TOTAL DEGREE HOURS REQUIRED	122

Teacher Licensure Endorsement in Chemistry

Students wishing to pursue a career in teaching must take the following steps:

1. Follow the curriculum for the liberal arts degree in Chemistry.
2. Use the elective hours for professional courses.
3. See the academic advisor in their major department.
4. See the academic advisor in the Department of Secondary Education and School Leadership in the Bozeman Education Building, Room 200.
5. Take the PRAXIS test and make a passing score. (See the School of Education PRAXIS coordinator, JBB 125.)
6. Take the following professional education courses (18 semester hours) plus student teaching (12 semester hours).

COURSE	COURSE TITLE
EDU 201	Foundations of Education
SED 233	Seminar in Assessment and Evaluation
SED 380	Foundations of Methods in Secondary Schools
SED 384	Teaching of Mathematics and Sciences in Secondary Schools
SED 486	Educational Psychology and Behavior Management
SED 499	Directed Teaching and Seminar

B.S. in Chemistry -- Pre-Medicine**CURRICULUM****FIRST YEAR**

COURSE	COURSE TITLE	HOURS
SEM 101 & 102	Spartan Seminars 101 and 102	2
CHM 231	General Chemistry I & Lab	5
CHM 231R		
CHM 232	General Chemistry II & Lab	5
CHM 232R		
CSC 170	Computer Programming	3
CSC 170L	Computer Programming Lab	1
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
MTH 153	College Algebra and Trigonometry	3
MTH 184	Calculus I	4
PED 100	Fundamentals of Fitness for Life	1
TOTAL HOURS REQUIRED		32

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
CHM 321	Organic Chemistry I	3
CHM 322	Organic Chemistry II	3
CHM 321L	Organic Chemistry I Lab	2
CHM 322L	Organic Chemistry II Lab	2
CHM 331	Analytical Chemistry I	3
CHM 331L	Analytical Chemistry I Lab	2
PHY 152	General Physics I	3
PHY 153L	General Physics I Lab	1
MTH 251	Calculus II	4
MTH 252	Calculus III	4
PHY 153	General Physics II	3
PHY 153L	General Physics II Lab	1
TOTAL HOURS REQUIRED		32

THIRD YEAR

COURSE	COURSE TITLE	HOURS
BIO XXX	Restricted Biology Elective	3
HIS XXX	History from the Core	3
BIO 110 BIO 110L	General Biology & Lab	4
CHM 332	Analytical Chemistry II	3
CHM 332L	Analytical Chemistry II Lab	2
CHM 345	Math Methods and Logic	3
CHM 451	Seminar or CHM 452	1
CHM 361	Physical Chemistry I	3
CHM 362	Physical Chemistry II	3
CHM 363L	Physical Chemistry Lab	2
ENG 285	Public Speaking	3
TOTAL HOURS REQUIRED		30

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
BIO XXX	Restricted Biology Electives	3
CHM 431	Biochemistry I	3
CHM 431L	Biochemistry I Lab	2
CHM 432	Biochemistry II	3
CHM 432L	Biochemistry II Lab	2
CHM 473	Advanced Inorganic Chemistry	3
CHM 497	CHM 498	1
SOC 101	Introduction to Social Science	3
XXX XXX	Cultural Elective from the Core	6
XXX XXX	Humanities from the Core	3
TOTAL HOURS REQUIRED		29

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	34
Major Requirements	56
Electives	6
Other Requirements	27
TOTAL DEGREE HOURS REQUIRED	123

Five-Year Dual Degree: B.S. in Chemistry and M.S. in Materials Science

CHEMISTRY CURRICULUM

FIRST YEAR

COURSE	COURSE TITLE	HOURS
SEM 101/102	Spartan Seminars 101 and 102	2
CHM 231	General Chemistry I & Lab	5
CHM 231R		
CHM 232	General Chemistry II & Lab	5
CHM 232R		
CSC 170	Computer Programming	3
CSC 170L	Computer Programming Lab	1
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
MTH 153	College Algebra and Trigonometry	3
MTH 184	Calculus I	4
PED 100	Fundamentals of Fitness for Life	1
TOTAL HOURS REQUIRED		32

THIRD YEAR

COURSE	COURSE TITLE	HOURS
XXX XXX	History from the Core**	3
XXX XXX	Humanities from the Core***	3
CHM 332/	Analytical Chemistry II	5
CHM 332L	Analytical Chemistry II Lab	
CHM 361	Physical Chemistry I	3
CHM 362	Physical Chemistry II	3
CHM 363L	Physical Chemistry Lab	2
CHM 345	Math Methods and Logic	3
MTH 372	Differential Equations	3
SOC 101	Introduction to Social Science	3
TOTAL HOURS REQUIRED		28

FOURTH YEAR

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
ENG 285	Public Speaking	3
CHM 321/ CHM 321L	Organic Chemistry I and Lab	5
CHM 322/ CHM 322L	Organic Chemistry II and Lab	5
CHM 331/ CHM 331L	Analytical Chemistry I and Lab	5
MTH 251	Calculus II	4
MTH 252	Calculus III	4
PHY 160/ PHY 160L	University Physics I and Lab	5
PHY 161/ PHY 161L	University Physics II and Lab	5
TOTAL HOURS REQUIRED		37

COURSE	COURSE TITLE	HOURS
XXX XXX	Cultural Elective from the Core****	3
XXX XXX	Humanities from Core***	3
XXX XXX	Restrictive Chemistry Elective*****	
CHM 451	Seminar or CHM 452	1
CHM 473	Advanced Inorganic Chemistry	3
CHM 545	Math Methods	3
MATS 530	Materials Science	3
BIO 110	General Biology & Lab	4
BIO 110L		
PHY 356	Heat and Thermodynamics	3
PHY 580	Quantum Mechanics for Materials Science	3
TOTAL HOURS REQUIRED		29

Continue to next page →

Five-Year Dual Degree: B.S. in Chemistry and M.S. in Materials Science

MATERIALS SCIENCE CURRICULUM

SUMMER

COURSE	COURSE TITLE	HOURS
MATS 697	Research I	3
TOTAL HOURS REQUIRED		3

FIFTH YEAR

COURSE	COURSE TITLE	HOURS
MSE 533	Polymers and Polymer-Based Composites	3
XXX XXX	Technical Elective	3
XXX XXX	Technical Elective	3
MSE 535	Electronic and Optical Materials	3
MSE 575	Instrumentation for Materials Characterization	3
MATS 799	Thesis Research	3
XXX XXX	Technical Elective	3
TOTAL HOURS REQUIRED		21

TECHNICAL ELECTIVES

COURSE	COURSE TITLE	HOURS
CHM 573	Advanced Inorganic Chemistry	3
CHM 633	Molecular Dynamics	3
CHM 663	Atomic and Molecular Spectroscopy	3
PHY 653	Solid State Physics	3
PHY 675	Electricity and Magnetism	3
MATS 610	Special Topics	3
MATS 710	Special Topics	3

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	34
Major Requirements	78
Electives	9
Other Requirements	29
TOTAL DEGREE HOURS REQUIRED	150

* Select one from: HIS 100, 101, 102, or 103

** Select one from: HUM 210, 211, ENG 383, FIA 170, or MUS 234

*** Select one from: HIS 335, HIS 336, HIS 370, HIS 371, HIS 377, ENG 383, PSY 340, SOC 237, POS 315, FIA 170, or MUS 234

**** Select one from: CHM 431, CHM 432, CHM 431L, CHM 432L, CHM 473L, CHM 475, CHM 476, CHM 481, CHM 461L, CHM 462L, CHM 478, CHM 397, CHM 398, CHM 497, CHM 498

CHEMISTRY MINOR

The American Chemical Society (ACS) requires that a minor in chemistry consist of a minimum of 20 credit hours and 200 laboratory contact hours in two different areas of chemistry beyond the first year general chemistry. A minor in chemistry at NSU will consist of a required minor "core" and then a choice of the following advanced courses listed below (all course work listed below must be passed with a grade of "C" or higher).

Chemistry Minor Core (All courses are current NSU Chemistry Courses):

CORE COURSES	DESCRIPTION	CREDIT HOURS
CHM 321/321L ORGANIC CHEMISTRY I & LAB	Organic Chemistry I, Lecture and Lab	5 credit hours

OPTION 1 - Analytical Chemistry Option

ADVANCED COURSES	DESCRIPTION	CREDIT HOURS
CHM 331/331L	Analytical Chemistry I, Lecture and Lab	5 credit hours
CHM 332/332L	Analytical Chemistry II, Lecture and Lab	5 credit hours
CHM 497 or CHM 498	Introduction to Research	1 credit hour
TOTAL (Including Core)		16 credit hours

OPTION 2 - Biochemistry Option

ADVANCED COURSES	DESCRIPTION	CREDIT HOURS
CHM 322/322L	Organic Chemistry I, Lecture and Lab	5 credit hours
CHM 431/431L	Biochemistry I, Lecture and Lab	5 credit hours
CHM 497 or CHM 498	Introduction to Research	1 credit hour
TOTAL (Including Core)		16 credit hours

OPTION 3 - Physical Chemistry Option

ADVANCED COURSES	DESCRIPTION	CREDIT HOURS
CHM 345	Mathematical Methods and Logic	3 credit hours
CHM 361	Physical Chemistry I I, Lecture	3 credit hours
CHM 362/363L	Physical Chemistry	5 credit hour
TOTAL (Including Core)		16 credit hours

Students must complete the General Chemistry lecture and laboratory sequence to enter the Chemistry Minor program.

All courses listed above must be taken exactly as stated, no substitutions are allowed.

DEPARTMENT OF COMPUTER SCIENCE

B.S. in Computer Science

Dr. Claude Turner
Department Head
(757) 823-9454

The Computer Science Program is designed to provide students with fundamental training in the theoretical and practical aspects of computer science. Coupled with the program's strong mathematics component, this training provides graduates with the necessary background for employment in a wide variety of computing fields or for a smooth entry into graduate level study. The B.S. degree program in Computer Science is accredited by the Computing Accreditation Commission of ABET. <http://www.abet.org>

PROGRAM EDUCATIONAL OBJECTIVES

A graduate of the Undergraduate Computer Science Program at Norfolk State University will be able:

1. To work successfully, both independently and in team environments.
2. To communicate effectively, both orally and in writing.
3. To pursue advanced study or engage in professional practice within the computing profession.
4. To engage in the practice of life-long learning to enhance their capabilities.
5. To practice ethical behavior in their professional endeavors.
6. To address contemporary issues by using evolving technologies, analytical thinking, and design methodologies.

STUDENT LEARNING OUTCOMES

Upon graduation, computer science students will demonstrate an:

- a. Ability to apply knowledge of computing and mathematics appropriate to the discipline
- b. Ability to analyze a problem, and identify and define the computing requirements appropriate to its solution
- c. Ability to design, implement and evaluate a computer-based system, process, component, or program to meet desired needs
- d. Ability to function effectively on teams to accomplish a common goal
- e. Understanding of professional, ethical, legal, security, and social issues and responsibilities
- f. Ability to communicate effectively with a range of audiences
- g. Ability to analyze the local and global impact of computing on individuals, organizations and society
- h. Recognition of the need for and an ability to engage in continuing professional development
- i. Ability to use current techniques, skills, and tools necessary for computing practices
- j. Ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices
- k. Ability to apply design and develop principles in the construction of software systems of varying complexity

Minor in Computer Science – Standard Track

A Computer Science Minor consists of the following 18 credit hours of required courses:

COURSE	COURSE TITLE	HOURS
CSC 170	Computer Programming I	3
CSC 260	Computer Programming II	3
CSC 268	Computer Organization	3
CSC 372	Data Structures	3
CSC 464	Operating Systems	3
CSC XXX	Elective at the 300 or 400 level	3
TOTAL HOURS REQUIRED		18

TOTAL DEGREE HOURS REQUIRED	18
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GENERAL DEPARTMENT REQUIREMENTS

Computer Science and Information Technology majors must complete at least 120 credits to complete the B.S. degree. Additionally:

Students must meet prerequisites or their equivalents prior to enrolling in more advanced computer science or information technology courses.

Computer Science majors must earn at least a “C” grade in all English, Science, Mathematics and Computer Science courses. Also majors with a specialty in computer engineering must receive a “C” grade or better in all engineering courses, and majors with a specialty in information systems must receive a “C” grade or better in all courses taken in the School of Business.

Information Technology majors must earn at least a “C” grade in IUL 101, all English, Science, Mathematics, Computer Science courses and all courses with the ITE, CIT and IMT prefixes.

B.S. in Computer Science – Standard Track**CURRICULUM****FIRST YEAR**

COURSE	COURSE TITLE	HOURS
SEM 101/102	Spartan Seminars 101 and 102	2
PED 100	Fundamentals of Fitness Life	1
HED 100	Personal and Community Health	2
CSC 101	Introduction to the Computer Science Professions	1
CSC 170	Computer Programming I	3
CSC 170L	Computer Programming I Lab	1
CSC 260	Computer Programming II	3
CSC 260L	Computer Programming II Lab	1
ENG 101	College English I	3
ENG 102	College English II	3
MTH 153	College Algebra and Trigonometry	3
MTH 184	Calculus I	4
XXX XXX	Social Science Elective	3
TOTAL HOURS REQUIRED		30

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
CSC 268	Computer Organization	3
CSC 295	Java Applications Programming	3
ENG 303	Technical Writing	3
CSC 361	Survey of Programming Languages	3
MTH 251	Calculus II	4
MTH 371	Discrete Mathematical Structures	4
CSC 372	Data Structures	3
ENG 285	Public Speaking	3
XXX XXX	Laboratory Science Elective (BIO 110, PHY 152, or CHM 221 and the corresponding Laboratory)	4
TOTAL HOURS REQUIRED		31

THIRD YEAR

COURSE	COURSE TITLE	HOURS
CSC 292	Unix and C Programming	3
CSC 468	Computer Architecture	3
XXX XXX	Computer Science Electives (300 or above)	3
CSC 380	Software Engineering	3
MTH 351	Probability and Statistics I	3
XXX XXX	Humanities or Foreign Languages	3
XXX XXX	Laboratory Science Elective Sequence (BIO 110/110L, PHY 152/152L, or CHM 221/221L)	4
CSC 275	Fundamentals of Cybersecurity	3
CSC 430	Data Communication	3
TOTAL HOURS REQUIRED		28

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
CSC 464	Operating Systems	3
CSC 498	Computer Science Seminar I	2
CSC 499	Computer Science Seminar II	2
XXX XXX	Humanities Cultural Elective I	3
XXX XXX	Computer Science Elective (300 level or above)	3
XXX XXX	Computer Science Electives (300 level or above)	9
MTH XXX	Computer Science or Mathematics Elective (300 level or above)	3
XXX XXX	Social Science Cultural Elective	3
XXX XXX	Free Elective	3
TOTAL HOURS REQUIRED		31

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education	40
Core Major	53
Requirements Electives	27
Other Requirements	0
TOTAL DEGREE HOURS REQUIRED	120

B.S. in Computer Science – Track CE**CURRICULUM****FIRST YEAR**

COURSE	COURSE TITLE	HOURS
PED 100	Fundamentals of Fitness Life	1
HED 100	Personal and Community Health	2
CSC 101	Introduction to the Computer Science Profession	1
CSC 170	Computer Programming I	3
CSC 170L	Computer Programming I Lab	1
CSC 260	Computer Programming II	3
CSC 260L	Computer Programming II Lab	1
ENG 101	College English I	3
ENG 102	College English II	3
MTH 153	College Algebra and Trigonometry	3
MTH 184	Calculus I	4
SEM 101/102	Spartan Seminars 101 and 102	2
CSC 268	Computer Organization	3
TOTAL HOURS REQUIRED		30

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
CSC 372	Data Structures	3
CSC 295	Java Applications Programming	3
MTH 251	Calculus II	4
MTH 252	Calculus III	4
XXX XXX	Social Science Elective ¹	3
PHY 160/ PHY 160L	University Physics I and Lab	5
PHY 161/ PHY161L	University Physics II and Lab	5
ENG 285	Public Speaking	3
TOTAL HOURS REQUIRED		31

THIRD YEAR

COURSE	COURSE TITLE	HOURS
CSC 292	Unix and C Programming	3
CSC 361	Survey of Programming Language	3
EEE 201/ EEE 201L	Elect Network Theory & Lab	4
CSC 380	Software Engineering	3
EEE 231/ EEE 231L	Digital Electronics Logic Design and Lab	4
ENG 303	Technical Writing	3
MTH 351	Probability and Statistics	3
MTH 371	Discrete Mathematical Structure:	4
MTH 372	Differential Equations	3
EEE 203	Electronic Principles	3
TOTAL HOURS REQUIRED		33

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
CSC 275	Fundamentals of Cybersecurity	3
CSC 430	Data Communications	3
CSC 464	Operating Systems	3
CSC 468	Computer Architecture	3
CSC 498	Computer Science Seminar I	2
CSC 499	Computer Science Seminar II	2
CSC XXX	Computer Science Elective 300 level or above	3
EEE 431	Microcontrollers	3
XXX XXX	Humanities Elective ²	3
XXX XXX	Humanities Cultural Elective ⁴	3
XXX XXX	Social Science Cultural Electives ³	4
TOTAL HOURS REQUIRED		32

SUMMARY OF GRADUATION REQUIREMENTS¹ HIS 101; HIS 103; BUS 175; ECN 200; SOC 101² ENG 207; FIA 201; MUS 301³ HIS 335; His 336; HIS 371; HRP 320⁴ ENG 383; FIA 370; MUS 234

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	73
Electives	12
Other Requirements	0
TOTAL DEGREE HOURS REQUIRED	125

B.S. in Computer Science – Software Engineering Track**CURRICULUM****FIRST YEAR**

COURSE	COURSE TITLE	HOURS
PED 100	Fundamentals of Fitness Life	1
HED 100	Personal and Community Health	2
CSC 101	Introduction to the Computer Science Profession	1
CSC 170	Computer Programming I	3
CSC 170L	Computer Programming I Lab	1
CSC 260	Computer Programming II	3
CSC 260L	Computer Programming II Lab	1
ENG 101	College English I	3
ENG 102	College English II	3
MTH 153	College Algebra and Trigonometry	3
MTH 184	Calculus I	4
SEM 101/102	Spartan Seminars 101 and 102	2
XXX XXX	Social Science Elective ¹	3
TOTAL HOURS REQUIRED		30

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
CSC 268	Computer Organization	3
CSC 372	Data Structures	3
CSC 295	Java Applications Programming	3
CSC 275	Computer Security	3
MTH 251	Calculus II Discrete	4
MTH 371	Mathematical Structures	4
CSC 292	UNIX and C Programming	3
ENG 285	Public Speaking	3
XXX XXX	Laboratory Science Elective (BIO 110/110L, PHY 152/152L, or CHM 221/221L)	4
TOTAL HOURS REQUIRED		31

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	56
Electives	24
Other Requirements	0
TOTAL DEGREE HOURS REQUIRED	120

THIRD YEAR

COURSE	COURSE TITLE	HOURS
CSC 373	Algorithms Design and Analysis	3
CSC 361	Survey of Programming Languages	3
CSC 420	Database Principles and Design	3
CSC 380	Software Engineering	3
MTH 351	Probability and Statistics I	3
ENG 303	Technical Writing	3
XXX XXX	Humanities Elective ²	3
XXX XXX	Computer Science Elective 300 Level or above	3
XXX XXX	Social Science Cultural Elective	3
XXX XXX	Laboratory Science Elective Sequence (BIO 111/111L, PHY 153/153L, or CHM 222/222L)	4
TOTAL HOURS REQUIRED		31

¹ HIS 101; HIS 103; BUS 175; ECN 200; SOC 101² ENG 207; FIA 201; MUS 301**FOURTH YEAR**

COURSE	COURSE TITLE	HOURS
CSC 430	Data Communication	3
CSC 464	Operating Systems	3
CSC 485	Software Quality Assurance & Testing	3
CSC 486	Software Project Management	3
CSC 468	Computer Architecture	3
CSC 498	Computer Science Seminar I	2
CSC 499	Computer Science Seminar II	2
CSC 487	Engineering Secure Software Systems	3
CSC 488	Principles of Distributed Software Systems	3
XXX XXX	Humanities Cultural Electives ³	3
TOTAL HOURS REQUIRED		28

¹ HIS 101; HIS 103; BUS 175; ECN 200; SOC 101² ENG 207; FIA 201; MUS 301³ ENG 383; FIA 370; MUS 234

BUSINESS ELECTIVES

COURSE	COURSE TITLE
ACC 201	Principles of Accounting I
ACC 202	Principles of Accounting II
MGT 365	Organizational Behavior and Theory
MKG 366	Principles of Marketing
DSC 370	Total Quality Management

B.S. in Computer Science – Track CYBT**CURRICULUM****FIRST YEAR**

COURSE	COURSE TITLE	HOURS
PED 100	Fundamentals of Fitness Life	1
HED 100	Personal and Community Health	2
CSC 101	Introduction to the Computer Science Profession	1
CSC 170	Computer Programming I	3
CSC 170L	Computer Programming I Lab	1
CSC 260	Computer Programming II	3
CSC 260L	Computer Programming II Lab	1
ENG 101	College English I	3
ENG 102	College English II	3
MTH 153	College Algebra and Trigonometry	3
MTH 184	Calculus I	4
SEM 101/102	Spartan Seminars 101 and 102	2
XXX XXX	Social Science Elective ¹	3
TOTAL HOURS REQUIRED		30

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
CSC 268	Computer Organization	3
ENG 303	Technical Writing	3
CSC 295	Java Applications Programming	3
CSC 275	Fundamentals of Cybersecurity	3
MTH 251	Calculus II	4
MTH 371	Discrete Mathematical Structures	4
CSC 372	Data Structures	3
ENG 285	Public Speaking	3
XXX XXX	Laboratory Science Elective (BIO 110/110L, PHY 152/152L, or CHM 221/221L)	4
TOTAL HOURS REQUIRED		31

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	56
Electives	24
Other Requirements	0
TOTAL DEGREE HOURS REQUIRED	120

THIRD YEAR

COURSE	COURSE TITLE	HOURS
CSC 292	Unix and C Programming	3
CSC 361	Survey of Programming Languages	3
CSC 420	Database Principles and Design	3
CSC 380	Software Engineering	3
MTH 351	Probability and Statistics I	3
CSC 430	Data Communications	3
CSC 449	Cryptography and Network Security	3
XXX XXX	Humanities Elective ²	3
XXX XXX	Laboratory Science Elective Sequence (BIO 110/110L, PHY 152/152L, or CHM 221/221L)	4
CSC 435	Computer Science I	3
TOTAL HOURS REQUIRED		31

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
CSC 445	Computer Network Defense	3
CSC 313	Network Administration	3
XXX XXX	Computer Science Elective(300 level or above)	3
CSC 464	Operating Systems Computer	3
CSC 468	Computer Architecture	2
CSC 498	Computer Science Seminar I	2
CSC 499	Computer Science Seminar II	2
CSC 494	Digital Forensics	3
XXX XXX	Humanities Cultural Elective ³	3
XXX XXX	Social Science Cultural Elective ⁴	3
TOTAL HOURS REQUIRED		28

¹ HIS 101; HIS 103; BUS 175; ECN 200; SOC 101² ENG 207; FIA 201; MUS 301³ ENG 383; MUS 234⁴ HIS 335; HIS 336; HIS 371; HRP 320

B.S. in Information Technology

Dr. Jeenson Sheen
Department Head
(757) 823 - 8057

The Information Technology Program aims to provide graduates with the skills and knowledge to take on appropriate professional positions in Information Technology upon graduation and grow into leadership positions or pursue research or graduate studies in the field.

PROGRAM EDUCATIONAL OBJECTIVES

A graduate of the Undergraduate Computer Science Program at Norfolk State University will be able:

1. To work successfully, both independently and in team environments.
2. To communicate effectively, both orally and in writing.
3. To pursue advanced study or engage in professional practice within the computing profession.
4. To engage in the practice of life-long learning to enhance their capabilities.
5. To practice ethical behavior in their professional endeavors.
6. To address contemporary issues by using evolving technologies, analytical thinking, and design methodologies.

STUDENT LEARNING OUTCOMES

Upon graduation, computer science students will demonstrate an:

- a. An ability to apply knowledge of computing and mathematics appropriate to the discipline;
- b. An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution;
- c. An ability to design, implement and evaluate a computer-based system, process, component, or program to meet desired needs;
- d. An ability to function effectively on teams to accomplish a common goal;
- e. An understanding of professional, ethical, legal, security, and social issues and responsibilities;
- f. An ability to communicate effectively with a range of audiences;
- g. An ability to analyze the local and global impact of computing on individuals, organizations and society;
- h. Recognition of the need for, and an ability to engage in, continuing professional development;
- i. An ability to use current techniques, skills, and tools necessary for computing practices;
- j. An ability to use and apply current technical concepts and practices in the core information technologies
- k. An ability to identify and analyze user needs and take them into account in the selection, creation, evaluation and administration of computer-based systems
- l. An ability to effectively integrate IT-based solutions into the user environment
- m. An understanding of best practices and standards and their application
- n. An ability to assist in the creation of an effective project plan

B.S. in Information Technology

CURRICULUM

FIRST YEAR

COURSE	COURSE TITLE	HOURS
CSC 101	Introduction to the Computer Science	1
ITE 111	Information Technology Principles	3
CSC 170/ CSC170	Computer Programming I and Lab	4
CSC 260/ CSC260	Computer Programming II and Lab	4
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community	2
MTH 153	College Algebra and Trigonometry	3
MTH 184	Calculus	4
PED 100	Fundamentals of Fitness for	1
SEM 101/102	Spartan Seminars 101 and 102	2
TOTAL HOURS REQUIRED		30

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
ITE 195	Introduction to Internet Programming	3
ITE 211	Information Technology Operating Systems	3
CSC 268	Computer Organization	3
ITE 311	Fundamentals of Networking	3
CSC 360	User Interface Design	3
MTH 371	Discrete Mathematical Structures	4
XXX XXX	Laboratory Sequences: choose one sequence of Biology (BIO 110/110L and 111/111L) or Chemistry (CHM 221/221L and 222/222L) or Physics (PHY 152/152L and 153/153L)	8
XXX XXX	Concentration Elective (see below)	3
TOTAL HOURS REQUIRED		31

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	53
Electives	27
Other Requirements	0
TOTAL DEGREE HOURS REQUIRED	120

THIRD YEAR

COURSE	COURSE TITLE	HOURS
CSC 380	Software Engineering	3
CSC 420	Database Principles and Design	3
CSC 435	Computer Security I	3
IMT 244	Industrial Specifications and Technical Documentation	3
MTH 250	Elementary Statistics Concepts	3
ENG 285	Public Speaking	3
XXX XXX	Two Concentration Electives (see below)	6
XXX XXX	Humanities Elective	3
XXX XXX	Social Science Elective	3
TOTAL HOURS REQUIRED		30

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
CSC 498	Senior Seminar I	1
CSC 499	Senior Seminar II	2
IMT 303	Internship in Technology	3
IMT 413	Project Management	3
XXX XXX	CSC Elective (300 level or above)	3
XXX XXX	Two Concentration Electives (see below)	6
XXX XXX	Humanities Cultural Elective	3
XXX XXX	Free Electives	5
XXX XXX	Social Science Cultural Elective	3
TOTAL HOURS REQUIRED		29

CONCENTRATION ELECTIVES

COURSE	COURSE TITLE	HOURS
MIS 410	Systems Analysis and Design	3
CSC 292	UNIX and C Programming	3
CSC 312	Topics in Information Technology	3
CSC 313	Network Administration	3
CSC 314	Advanced Internet Programming	3
CSC 411	Web Server Administration	3
CSC 422	Database Implementation	3
CSC 432	Wireless Data Networking	3
CSC 445	Computer Network Defense	3
CIT 336L	Computer Network Technology Lab	1
CIT 436/ 436L	Computer Network Technology II and Lab	

DEPARTMENT OF ENGINEERING

Dr. Patricia Mead
Department Head
(757) 823 - 2697

The Department of Engineering at Norfolk State University offers B.S. degrees in Electrical and Electronics Engineering and Optical Engineering and an M.S. degree in Electronics Engineering. The Department's Engineering Advisory Board is composed of national leaders from government, universities, and industry. The Advisory Board helps to set the vision for departmental initiatives.

The Department of Engineering offers its students curricula that focus on key concepts and developments in the Electrical, Electronics and Optical engineering fields.

The B.S. and M.S. degree programs provide students with exciting opportunities to conduct research at major research facilities of the university and other research laboratories, both nationally and internationally. Areas of research include biomedical engineering, carbon electronics, gaming, image processing, microelectronics, modeling and simulation, nanotechnology, high power electronics, optoelectronics, photonics, and quantum optics.

The mission of the Department of Engineering is to empower students with the knowledge, skills, and abilities needed for successful professional careers in engineering; to encourage innovation, creativity and an entrepreneurial spirit; to instill a sense of community responsibility; and to develop leaders for a technology-driven global society.

In order to provide the best possible undergraduate education, the department embraces the standards established by ABET, Inc., the sole accrediting agency for engineering programs in the United States. The B.S. programs in Electrical and Electronics Engineering and Optical Engineering are accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>

GENERAL DEPARTMENT REQUIREMENTS

All students must complete the University's general education requirements to qualify for the Bachelor of Science degree. Additionally, the department requires that all majors:

- meet prerequisites or their equivalents before enrolling in engineering courses;
- earn a grade of "C" or better in SEM, all English, mathematics, science and engineering courses; and,
- complete a senior design project.

ELECTRICAL AND ELECTRONICS ENGINEERING PROGRAM EDUCATIONAL OBJECTIVES

The Norfolk State University Electrical and Electronics Engineering program faculty have identified a set of program educational objectives that describe the expected abilities of graduates as they enter the workforce. Graduates of the Electrical and Electronics Engineering program will:

- Devise technical solutions based on sound principles in science and engineering;
- Be effective communicators of technical information within professional settings or to broader audiences;
- Be ethically responsible members of the engineering community and cognizant of societal impacts of engineering solutions; and
- Continue their professional development in business settings or through advanced degree attainment.

OPTICAL ENGINEERING OBJECTIVES

The Norfolk State University Optical Engineering program faculty have identified a set of program educational objectives that describe the expected abilities of graduates as they enter the workforce. Graduates of the Optical Engineering program will:

- Devise technical solutions based on sound principles in science and engineering;
- Be effective communicators of technical information within professional settings or to broader audiences;
- Be ethically responsible members of the engineering community and cognizant of societal impacts of engineering solutions; and
- Continue their professional development in business settings or through advanced degree or through advanced degree attainment.

B.S. in Electrical and Electronics Engineering (Track)**CURRICULUM**

The B.S. degree program in Electrical and Electronics Engineering provides emphasis in microelectronics, digital and analog networks, communications, and control systems. The curriculum is designed to give students a thorough knowledge of the methods of design, application, and analysis of electronic systems.

FIRST YEAR

COURSE	COURSE TITLE	HOURS
EEE 100	Introduction to Engineering	3
ENG 101	College English I	3
ENG 102	College English II	3
MTH 184*	Calculus I	4
MTH 251	Calculus II	4
PED 100	Fundamentals of Fitness for Life	1
PHY 160*	University Physics I	4
PHY 160L*	University Physics I Lab	1
CSC 170	Computer Programming I (C++)	3
EEE 101	Engineering Problem Solving	2
PHY 161	University Physics II	4
PHY 161L	University Physics II Lab	1
SEM 101/102	Spartan Seminars 101 & 102	2
TOTAL HOURS REQUIRED		35

SECOND YEAR

COURSE	COURSE TITLE	HOURS
CHM 210*	General Chemistry for Engineers	3
EEE 201	Electrical Network Theory I	3
EEE 201L	Electrical Network Theory I Laboratory	1
EEE 202	Electrical Network Theory II	3
EEE 202L	Electrical Network Theory II Lab	1
EEE 211	Materials Science and Engineering	3
EEE 231	Digital Logic Design	3
EEE 231L	Digital Logic Design Lab	1
MTH 252	Calculus III	4
MTH 372	Differential Equations	3
ENG 285	Principles of Speech	3
HED 100	Personal and Community Health	2
XXX XXX	Social Sciences from the	3
SEM 201	Core Spartan Seminar 201	1
TOTAL HOURS REQUIRED		34

THIRD YEAR

COURSE	COURSE TITLE	HOUR
EEE 301	Engineering Electronics I	3
EEE 301L	Engineering Electronics I Laboratory	1
EEE 305	Signals and Systems	3
EEE 311	Engineering Economics	3
MTH 300	Linear Algebra	3
XXX XXX	Engineering Restricted Elective	3
EEE 321	Electromagnetic Field Theory	3
EEE 333	Digital Integrated Circuits	3
EEE 371	Control Systems	3
MTH 351-E*	Probability and Statistics I – Engineering Section	3
XXX XXX	Humanities from Core Tier 2	3
TOTAL HOURS REQUIRED		31

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
EEE 401	Electronics Engineering Seminar	1
EEE 451	Communication Engineering	3
EEE 498	Senior Project I	3
EEE 499	Senior Project II	3
XXX XXX	Humanities (Core Tier 3 Cultural Perspectives Elective)	3
XXX XXX	Engineering Restricted Elective*	3
XXX XXX	Engineering Restricted Elective*	3
XXX XXX	Social Sciences (Core Tier 3 Cultural Perspectives Elective)	3
XXX XXX	Engineering Restricted Elective	3
XXX XXX	Unrestrictive Elective	3
TOTAL HOURS REQUIRED		28

* See next page

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Engineering Requirements	54
Mathematics and Science	34
TOTAL DEGREE HOURS REQUIRED	128

* EEE Engineering Restricted Elective

Track Courses

Take at least 3 courses from selected track (may take up to one course from another track)

BIO Engineering Track

<u>EEE 462</u>	<u>Semiconductor Processing</u>
<u>EEE 481</u>	<u>Biomedical Engineering Devices</u>
<u>EEE 482</u>	<u>Bioelectronics</u>
<u>OEN 360</u>	<u>Optoelectronic Materials</u>

Microelectronics and Photonics Track

<u>EEE 201</u>	<u>Microelectronics</u>
<u>EEE 462</u>	<u>Semiconductor Processing</u>
<u>OEN 340</u>	<u>Lasers and Photonics</u>
<u>OEN 460</u>	<u>Optical Communications</u>

Gaming and Robotics Track

<u>EEE 470</u>	<u>Intro. To Game Design & Development</u>
<u>EEE 471</u>	<u>3D Game Programming</u>
<u>EEE 475</u>	<u>Design of Robotic Systems</u>
<u>EEE 431</u>	<u>Microcontrollers</u>

B.S. in Electrical and Electronics Engineering (General)**CURRICULUM**

The B.S. degree program in Electrical and Electronics Engineering provides emphasis in microelectronics, digital and analog networks, communications, and control systems. The curriculum is designed to give students a thorough knowledge of the methods of design, application, and analysis of electronic systems.

FIRST YEAR

COURSE	COURSE TITLE	HOURS
EEE 100	Introduction to Engineering	3
ENG 101	College English I	3
ENG 102	College English II	3
MTH 184*	Calculus I	4
MTH 251	Calculus II	4
PED 100	Fundamentals of Fitness for Life	1
PHY 160*	University Physics I	4
PHY 160L*	University Physics I Lab	1
CSC 170	Computer Programming I (C++)	3
EEE 101	Engineering Problem Solving	2
PHY 161	University Physics II	4
PHY 161L	University Physics II Laboratory	1
SEM 101/102	Spartan Seminars 101 and 102	2
TOTAL HOURS REQUIRED		35

SECOND YEAR

COURSE	COURSE TITLE	HOURS
CHM 210*	General Chemistry for Engineers	3
EEE 201	Electrical Network Theory	3
EEE 201L	Electrical Network Theory I Laboratory	1
EEE 202	Electrical Network Theory II	3
EEE 202L	Electrical Network Theory II Laboratory	1
EEE 211	Materials Science and Engineering	3
EEE 231	Digital Logic Design	3
EEE 231L	Digital Logic Design Lab	1
MTH 252	Calculus III	4
MTH 372	Differential Equations	3
ENG 285	Public Speaking	3
HED 100	Personal and Community Health	2
XXX XXX	Social Sciences from the Core	3
SEM 201	Spartan Seminar 201	1
TOTAL HOURS REQUIRED		34

* See next page

THIRD YEAR

COURSE	COURSE TITLE	HOUR
EEE 301	Engineering Electronics I	3
EEE 301L	Engineering Electronics I Laboratory	1
EEE 305	Signals and Systems	3
EEE 311	Engineering Economics	3
MTH 300	Linear Algebra	3
XXX XXX	Engineering Restricted Elective	3
EEE 321	Electromagnetic Field Theory	3
EEE 333	Digital Integrated Circuits	3
EEE 371	Control Systems	3
MTH 351-E*	Probability and Statistics I – Engineering Section	3
XXX XXX	Humanities from Core Tier 2	3
TOTAL HOURS REQUIRED		31

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
EEE 401	Electronics Engineering Seminar	1
EEE 451	Communication Engineering	3
EEE 498	Senior Project I	3
EEE 499	Senior Project II	3
XXX XXX	Humanities (Core Tier 3 Cultural Perspectives Elective)	3
EEE 431	Microcontrollers	3
EEE 402	Power Electronics	3
XXX XXX	Social Sciences (Core Tier 3 Cultural Perspectives Elective)	3
XXX XXX	Engineering Restricted Elective	3
XXX XXX		3
TOTAL HOURS REQUIRED		28

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
	40
General Education Core	54
Major Engineering Requirements	34
Mathematics and Science	
TOTAL DEGREE HOURS REQUIRED	128

***Engineering Restricted Electives**

Take one elective from this list or take one elective from any of the 3 tracks.

EEE 350	Instrumentation
EEE 451	Communication Engineering
EEE 462	Semiconductor Processing
EEE 463	Semiconductor Theory and Devices
EEE 476	Renewable Bio Energy
OEN 340	Lasers and Photonics
OEN 380	Intro. To Quantum Optics

Minor in Bio-Medical Engineering

Biomedical engineering is an emerging field that uses engineering concepts to develop solutions in biology and the medical field. It involves the application of engineering and technology to living systems. This minor is beneficial not only for engineering students, but also for other students in the College of Science, Engineering, and Technology.

REQUIRED COURSES

COURSE	COURSE TITLE	HOURS
BIO 110	General Biology	3
CHM 321	Organic Chemistry I	3
CHM 322	Organic Chemistry II	3
XXX XXX	Engineering Elective*	3
EEE 211	Materials Science and Engineering	3
XXX XXX	Biomedical Engineering (EEE 481) or Bioelectronics (EEE 482)	3
TOTAL HOURS REQUIRED		18

Note: Students must fulfill the pre-requisites requirements prior to enrolling in the courses for the minor.

- BIO 110: General Biology (Pre-requisites required: none: Co-requisite: BIO 110L or consent of chair
- CHM 321: Organic Chemistry I (Pre-requisites required: CHM 222 or CHM 224)
- CHM 322: Organic Chemistry II (Pre-requisite required: CHM 321)
- EEE 211: Materials Science and Engineering (Pre-requisite required: CHM 210 or CHM 221)
- EEE 481: Biomedical Engineering Microdevices and Systems (Pre-requisite or Co-requisite: University Physics I (PHY 160) and General Chemistry (CHM 210 or 221)
- EEE 482: Bioelectronics (Same as EEE 481)
- One of the following courses: EEE 305, OEN 360, EEE 481, or EEE 482

Minor in Electrical and Electronics Engineering

This minor is for non-engineering major students.

REQUIRED COURSES

COURSE	COURSE TITLE	HOURS
EEE 201	Electrical Network Theory I	3
EEE 203	Electronic Principles	3
XXX XXX	Engineering Elective: EEE 3XXX (Excluding EEE 311 or 4XX)	3
XXX XXX	Engineering Elective: EEE 3XXX (Excluding EEE 311 or 4XX)	3
XXX XXX	Engineering Elective: EEE 3XXX (Excluding EEE 311 or 4XX)	3
TOTAL HOURS REQUIRED		15

Minor in Optical Engineering

This minor requires 15 credits from OEN 2XX, 3XX, 4XX, EEE 211, EEE 321, or EEE 462.

MINOR IN GAME DESIGN AND DEVELOPMENT (FOR NON-EEE MAJORS)		
COURSE	COURSE TITLE	HOURS
CSC 170	Computer Programming	3
EEE 470	Intro. to Game Design and Development	3
EEE 471	3D Game Programming	3
XXX XXX	Restrictive Elective Course: EEE 471, CSC 260, or CSC 295	3
XXX XXX	One of the following: EEE 471, CSC 260, CSC 295	3
TOTAL HOURS REQUIRED		15

B.S. in Optical Engineering**CURRICULUM**

The Optical Engineering program was established in fall 2003 for the purpose of addressing diversity and high-tech workforce needs in Hampton Roads, the Commonwealth of Virginia, and the United States. The curriculum offers emphasis in optical materials, photonics, optoelectronics, and optical communications.

FIRST YEAR

COURSE	COURSE TITLE	HOURS
EEE 100	Introduction to	3
EEE 102*	Engineering Use of Computers	3
ENG 101	College English I	3
ENG 102	College English II	3
MTH 184*	Calculus I	4
XXX XXX	Social Science (Tier	3
PED 100	Fundamentals of Fitness for Life	1
CHM 210*	General Chemistry for Engineers	3
EEE 211	Material Science and Engineering	3
EEE 101	Engineering Problem Solving	2
SEM 101/102	Spartan Seminars 101 and 102	2
TOTAL HOURS REQUIRED		30

SECOND YEAR

COURSE	COURSE TITLE	HOURS
PHY 160*	University Physics	4
PHY 160L*	University Physics I Lab	1
PHY 161	University Physics	4
PHY 161L	University Physics II Lab	1
MTH 251	Calculus II	4
MTH 252	Calculus III	4
OEN 200	Geometric and Instrumentation Optics	3
OEN 200L	Geometric and Instrumentation Optics Lab	1
OEN 290	Optical Engineering Seminar	1
XXX XXX	Humanities (Tier	3
XXX XXX	Cultural Social Science (Tier)	3
ENG 285	Public Speaking	3
HED 100	Personal and Community Health	2
SEM 201	Spartan Seminar 201	1
TOTAL HOURS REQUIRED		35

* Substitutes for General Education Core Requirements

The Technical Elective may be chosen from the 300 level or above courses in math, computer science, chemistry, physics or engineering.

THIRD YEAR

COURSE	COURSE TITLE	HOURS
OEN 201	Physical and Instrumentation Optics	3
OEN 201L	Physical and Instrumentation Optics Lab	1
MTH 300	Linear Algebra	3
MTH 372	Differential Equations	3
OEN 320	Optical Systems Analysis	3
OEN 340	Lasers and Photonics	3
OEN 340L	Lasers and Photonics Lab	1
OEN 360	Introduction to Optical Materials	3
EEE 201	Electrical Network Theory I	3
EEE 201L	Electrical Network Theory I Lab	1
EEE 311	Engineering Economics	3
OEN 390	Optical Engineering Sem. II	1
EEE 203	Electronic Principles	3
XXX XXX	Cultural Humanities	3
TOTAL HOURS REQUIRED		34

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
MTH 351	Probability and Statistics I	3
OEN 380	Intro. to Quantum Optics	3
OEN 460	Optical Communications I	3
OEN 460L	Optical Communications I Lab	1
EEE 321	Electromagnetic Field Theory	3
OEN 490	Senior Seminar	1
OEN 498	Senior Project I	3
OEN 499	Senior Project II	3
XXX XXX	Engineering Restrictive Elective	3
XXX XXX	Technical Elective	3
XXX XXX	Engineering Restrictive Elective	3
TOTAL HOURS REQUIRED		29

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Engineering Requirements	54
Mathematics and Science	34
TOTAL DEGREE HOURS REQUIRED	128

Five-Year Dual Degree: B.S. and M.S. in Optical Engineering

CURRICULUM

FIRST YEAR

COURSE	COURSE TITLE	HOURS
EEE 100	Introduction to Engineering	3
EEE 102*	Engineering Use of Computers	3
ENG 101	College English I	3
ENG 102	College English II	3
MTH 184*	Calculus I	4
XXX XXX	Social Science (Tier 2)	3
PED 100	Fundamentals of Fitness for Life	1
CHM 210*	General Chemistry for Engineers	3
EEE 211	Material Science & Engineering	3
EEE 101	Engineering Problem Solving	2
SEM 101/102	Spartan Seminars 101 and 102	2
TOTAL HOURS REQUIRED		30

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
HED 100	Personal and Community Health	2
PHY 160*	University Physics I	4
PHY 160L*	University Physics I Lab	1
PHY 161	University Physics II	4
PHY 161L	University Physics II Lab	1
MTH 251	Calculus II	4
OEN 200	Geometric and Instrumentation Optics	3
OEN 200L	Geometric and Instrumentation Optics Lab	1
OEN 290	Optical Engineering Seminar I	1
XXX XXX	Humanities (Tier 2)	3
MTH 252	Calculus III	4
XXX XXX	Cultural Social Science (Tier 3)	3
ENG 285	Public Speaking	3
TOTAL HOURS REQUIRED		35

SUMMER

COURSE	COURSE TITLE	HOURS
OEN 297	Summer Research	3
TOTAL HOURS REQUIRED		3

THIRD YEAR

COURSE	COURSE TITLE	HOURS
OEN 201	Physical and Instrumentation Optics	3
OEN 201L	Physical and Instrumentation Optics Lab	1
MTH 300	Linear Algebra	3
MTH 372	Differential Equations	3
OEN 320	Optical Systems Analysis	3
OEN 340	Lasers and Photonics	3
OEN 340L	Lasers and Photonics Lab	1
OEN 360	Intro. to Optical Materials	3
EEE 201	Electrical Network Theory I	3
EEE 201L	Electrical Network Theory I Lab	1
EEE 311	Engineering Economics	3
OEN 390	Optical Engineering Sem. II	1
EEE 203	Electronic Principles	3
XXX XXX	Cultural Humanities	3
TOTAL HOURS REQUIRED		34

SUMMER

COURSE	COURSE TITLE	HOURS
OEN 397	Summer Research	3
TOTAL HOURS REQUIRED		3

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
MTH 351E	Probability and Statistics I	3
OEN 380	Intro. to Quantum Optics	3
OEN 460	Optical Communications I	3
OEN 460L	Optical Communications I Lab	1
EEE 321	Electromagnetic Field Theory	3
OEN 490	Senior Seminar	1
OEN 498	Senior Project I	3
OEN 499	Senior Project II	3
XXX XXX	Engineering Restrictive Elective	3
XXX SSS	Technical Elective	3
XXX XXX	Engineering Restrictive Elective	3
TOTAL HOURS REQUIRED		29

* Substitutes for General Education Core Requirements

** Must earn a grade of B or better

Continued on next page →

College of Science, Engineering, and Technology

FIFTH YEAR

COURSE	COURSE TITLE	HOURS
MSE 535	Electronic and Photonic Materials Engineering	3
MSE 575	Basic Instrumentation for Materials Science	3
OEN 630	Opto-Electronic Devices	3
OEN 690	Applied Optics Research Seminar	3
OEN 699	Master's Thesis	6
EEN 683	Advanced Topics of VLSI	3
XXX XXX	Graduate Electives	6
TOTAL HOURS REQUIRED		27

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Engineering Requirements	87
Mathematics and Science	34
TOTAL DEGREE HOURS REQUIRED	161

Minor in Bio-Medical Engineering

Biomedical engineering is an emerging field that uses engineering concepts to develop solutions in biology and the medical field. It involves the application of engineering and technology to living systems. This minor is beneficial not only for engineering students, but also for other students in the College of Science, Engineering, and Technology

REQUIRED COURSES

COURSE	COURSE TITLE	HOURS
BIO 110	General Biology	3
CHM 321	Organic Chemistry I	3
CHM 322	Organic Chemistry II	3
BIO 469	Biochemistry I	3
EEN 211	Scientific Instrumentation or EEN 481	3
EEN 350	Biomedical Engineering	3
TOTAL HOURS REQUIRED		18

NOTE:

Students must fulfill the pre-requisite requirements prior to enrolling in the courses for the minor.

- BIO 110: General Biology (Pre-requisites required: none; Co-requisite: BIO 110L or consent of Chair)
- CHM 321:: Organic Chemistry I (Pre-requisites required: CHM 222 or CHM 224)
- BIO 469: Biochemistry I (Pre-requisite required: CHM 322) or CHM 431: Biochemistry I (Pre-requisites required: CHM 322, 362)
- EEN 211: Materials Science and Engineering (Pre-requisite required: CHM 210 or CHM 221)
- EEN 350: Scientific Instrumentation (Pre-requisite required: EEN 102 or CSC 170; EEN 201 or equivalent)
- EEN 481: Biomedical Engineering Microdevices and Systems (Pre-requisite or Co-requisite: University Physics I (PHY 160) and General Chemistry (CHM 210 or 221))

DEPARTMENT OF MATHEMATICS

Dr. Anne Fernando
Department Head
(757) 823 - 8883

The Mathematics Department assists students of all majors in mastering the quantitative skills necessary for success in their various disciplines. The Department prepares students majoring in mathematics for careers in the mathematical sciences from both a theoretical and an applied viewpoint, providing simultaneous preparation for those who wish to pursue graduate study. The Department's specific goals are summarized as follows:

1. To assist students of all majors in mastering basic mathematical skills, maximizing their problem-solving skills, and acquiring an appreciation for the critical role of quantitative thinking in modern society.
2. To aid students in developing the mathematical and computational skills necessary for use in various quantitative fields such as engineering, the natural sciences, business and economics, and the vocational areas.
3. To prepare students for various career opportunities such as mathematicians in the applied sciences.
4. To prepare secondary level mathematics teachers.
5. To help students develop the necessary background for further study at the graduate level.

FACILITIES

The Department maintains a Mathematics Resource Center (BMH 318) for students enrolled in entry level mathematics courses.

GENERAL DEPARTMENT REQUIREMENTS

All students at Norfolk State University are required to complete the General Education Core in order to qualify for the bachelor's degree. Additionally, the Department requires that:

1. All majors complete the prerequisites, or their equivalents, prior to enrolling in more advanced mathematics courses.
2. Mathematics majors earn at least a grade of "C" in Spartan Seminar Series SEM 101, 102 and 201. all mathematics and computer science courses and in certain other courses specified in the curriculum.

3. Mathematics majors pass a comprehensive examination covering the content of the core mathematics courses.

PROGRAMS OF STUDY

The Department of Mathematics offers the B.S. degree in Mathematics. The curriculum emphasizes two areas: Applied Mathematics and Mathematics with Teacher Certification, for those seeking to teach mathematics in the public schools.

Applied Mathematics

This option provides a strong preparation in mathematics with applications in engineering and the physical sciences. Graduates in this program are qualified as mathematical scientists or engineers for opportunities in industry, government, or graduate school.

Teacher Certification

This program is designed to prepare students to teach mathematics at the secondary school level. Students must apply for admission to teacher education, and admission requirements include passing the PRAXIS I Examination. The Master of Arts in Teaching (MAT) and the Master of Arts in Urban Education (MASAC) degrees are offered through the School of Education with concentrations in mathematics. The School of Education also offers programs of certification to persons with degrees in any of the previously described sequences.

The Department also offers:

Dual Degree Program

This program allows students to complete a primary major in one discipline and then complete a second/dual degree in mathematics.

Minor Degree Program

This program allows students to minor in mathematics. Students whose major is in the applied sciences or engineering typically choose the Mathematics Minor.

B.S. in Applied Mathematics

CURRICULUM

FIRST YEAR

COURSE	COURSE TITLE	HOURS
BIO 100	Biological Science	3
BIO 100L	Biological Science Lab	1
CSC 169	Introduction to Computer Science	3
CSC 170	Computer Programming	3
CSC 170L	Computer Programming Lab	1
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
SEM 101/102	Spartan Seminars	2
MTH 184	Calculus I	4
MTH 251	Calculus II	4
PED 100	Fundamentals of Fitness for Life	1
TOTAL HOURS REQUIRED		31

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
CSC 2XX	Computer Programming Electives (200 level)	6
PHY 152	General Physics I	3
PHY 152L	General Physics I Lab	1
MTH 252	Calculus III	4
MTH 300	Linear Algebra	3
MTH 372	Differential Equations	3
MTH 373	Advanced Vector Calculus	3
PHY 153	General Physics II	3
PHY 153L	General Physics II Lab	1
XXX XXX	***Cultural Perspectives (Humanities)	3
TOTAL HOURS REQUIRED		31

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	42
Major Requirements	59
Restricted Electives	15
General Electives	4
TOTAL DEGREE HOURS REQUIRED	120

THIRD YEAR

COURSE	COURSE TITLE	HOURS
XXX XXX	*Applied Electives	3
XXX XXX	Science Electives (200 level or above)	3
XXX XXX	General Electives	2
MTH 273	Mathematical Foundations	3
MTH 331	Algebraic Structures	3
MTH 351	Probability and Statistics I	3
MTH 352	Probability and Statistics II	3
XXX XXX	***Cultural Perspectives (Social Science)	3
ENG 285	Public Speaking	3
XXX XXX	****Social Sciences Elective	3
XXX XXX	**Humanities	3
TOTAL HOURS REQUIRED		32

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
XXX XXX	*Applied Electives	12
XXX XXX	General Electives	2
MTH 401	Numerical Analysis I	3
MTH 473	Introduction to Real Analysis	3
MTH 496	Mathematics Seminar	2
MTH 497	Mathematics Seminar	2
ENG 203	Advanced Communication Skills or	
ENG 303	Professional or Technical Writing	3
TOTAL HOURS REQUIRED		27

* Applied Electives:

Note: students will take 15 hours of applied electives as indicated:

Third year: MTH 382, MTH 384, PHY 3xx (6 hours)

Fourth year: MTH 402, MTH 474, MTH 484, PHY 3xx, PHY 4xx, EEN 3xx (9 hours)

**Humanities

Note: Students will take 3 hours of humanities as indicated: ENG 207, FIA 201, MUS 301

*** Cultural Perspectives (Humanities)

Note: Students will take 3 hours of Cultural Perspectives (Humanities) as indicated: ENG 383, MUS 234

**** Cultural Perspectives (Social Science)

Note: Students will take 3 hours of Cultural Perspectives (Humanities) as indicated: HIS 335, HIS 336, HIS 371, HRP 320

***** Social Sciences

Note: Students will take 3 hours of Social sciences as indicated: SOC 101, HIS 101, HIS 103, BUS 175, ECN 200

*****SocialSciences

Note: Students will take 3 hours of Social Sciences as indicated: SOC 101, HIS 101, HIS 103, Bus 175, ECN 200

Teacher Certification in Mathematics

CURRICULUM

FIRST YEAR

COURSE	COURSE TITLE	HOURS
BIO 100/ BIO 100L	Biological Science + Lab	4
CSC 170	Computer Programming I	3
CSC 170L	Computer Programming I Lab	1
ENG 101	College English I	6
ENG 102	College English II	6
HED 100	Personal and Community Health	2
MTH 184	Calculus I	4
MTH 251	Calculus II	4
PED 100	Fundamentals of Fitness for Life	1
PHY 152/ PHY 152L	General Physics I + Lab	4
SEM 101 AND 102	Spartan Seminars 101 & 102	2
TOTAL HOURS REQUIRED		31

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
ENG 203	Advanced Communications Skill OR	3
ENG 303	Professional and Tech Writing	3
ENG 285	Public Speaking	3
XXX XXX	****Cultural Perspectives (Social Science)	3
XXX XXX	**Humanities	3
MTH 242	History of Mathematics	3
MTH 252	Calculus III	4
MTH 300	Linear Algebra	3
MTH 372	Differential Equations	3
EDU 201	Foundations of Education	3
	*****Social Sciences	3
TOTAL HOURS REQUIRED		31

* Mathematics Electives

MTH 401 Numerical Analysis I, MTH 431 Abstract Algebra
MTH 473 Real Analysis

** Humanities

Note: Students will take 3 hours of humanities as indicated:
ENG 207, FIA 201, MUS 301

*** Cultural Perspectives (Humanities)

Note: Students will take 3 hours of Cultural Perspectives (Humanities) as indicated: ENG 383, MUS 234

THIRD YEAR

COURSE	COURSE TITLE	HOURS
XXX XXX	***Cultural Perspectives (Humanities)	3
MTH 250	Elementary Statistics Concepts	3
MTH 310	Discrete Mathematics	3
MTH 311	Modern Geometry	3
MTH 351	Probability & Statistics I	3
MTH 352	Probability & Statistics II	3
MTH 331	Algebraic Structures	3
EDU 381	Classroom & Behavior Management	3
SED 384	Curriculum & Instruc. Proced. In Math	3
SED 405	Reading in the Content Areas	3
TOTAL HOURS REQUIRED		30

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
XXX XXX	* Mathematics Elective	3
MTH 496/497	Mathematics Seminar	4
SED 420	Educational Technology	3
PSY 228 /EDU 486	Human Growth & Development	3
SED 499	Directed Teaching	12
	General Elective	2
TOTAL HOURS REQUIRED		27

**** Cultural Perspectives (Social Science)

Note: Students will take 3 hours of Cultural Perspectives (Social Science) as indicated: HIS 335, HIS 336, HIS 371, HRP 320

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Requirements	42
Major Requirements	43
Professional Educational Requirements	18
Student Teaching/Field Experiences	12
Restricted & General Electives	5
TOTAL DEGREE HOURS REQUIRED	120

Teacher Licensure Endorsement in Mathematics

Students wishing to pursue a career in teaching must take the following steps:

1. Follow the curriculum for the liberal arts degree in Mathematics.
2. Use the elective hours for professional courses.
3. See the academic advisor in their major department.
4. See the academic advisor in the Department of Secondary Education and School Leadership in the Bozeman Education Building.
5. Take the PRAXIS test and make a passing score. (See the School of Education PRAXIS coordinator)
6. Take the following professional education courses (18 semester hours) plus student teaching (12 semester hours).

COURSE	COURSE TITLE
EDU 201	Foundations of Education
EDU 381	Classroom and Behavior Management
PSY 228 / EDU 486	Human Growth and Development
SED 384	Curriculum and Instructional Procedures in Math
SED 405	Reading in Content Area
SED 420	Educational Technology

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	54
Electives	5
Other Requirements	21
Dual Mathematics Requirements	30
TOTAL DUAL DEGREE HOURS REQUIRED	150

Dual Degree in Mathematics

This sequence permits students to complete a primary major in one discipline and then to complete requirements for a second, "dual," degree in mathematics. Students could graduate with both degrees simultaneously or, if necessary, graduate with the primary degree in one semester and complete the remaining dual degree requirements within one year. The requirements for the dual degree include 30 semester credit hours of mathematics as outlined below. Students must complete a minimum of 30 credit hours of courses above the total hours required for the primary degree. Thus, the minimum requirement for the two degrees is 150 credit hours.

CURRICULUM

1. Complete Primary Degree Requirements

(Minimum of 120 Semester Hours)

2. Complete Dual Mathematics Requirements

(30 Semester Hours)

REQUIREMENTS

MTH 251	Calculus	4
MTH 252	Calculus III	4
MTH 300	Linear Algebra	4
MTH 351	Probability and Statistics I	3
MTH 372	Differential Equations	3
MTH 373	Advanced Vector Calculus	3

MATHEMATICS ELECTIVES

Select one of the following:	3
MTH 310	Discrete Mathematics
MTH 331	Algebraic Structure
MTH 352	Probability and Statistics II
MTH 382	Intro. to Applied Math
MTH 384	Mathematical Modeling in the Sciences

Select one of the following:	3
MTH 401	Numeric Analysis
MTH 431	Abstract Algebra
MTH 473	Real Analysis
MTH 484	Applied Mathematics

3. Complete 30-Hour Minimum Requirement

Take additional hours, if needed, to assure the completion of a minimum of 30 semester hours above the total hour requirement for the primary degree.

Minor in Mathematics

CURRICULUM

CORE

COURSE	COURSE TITLE	HOURS
MTH 252	Calculus III	4
MTH 351	Probability and Statistics I	3
MTH 372	Differential Equations	3
TOTAL HOURS REQUIRED		10

ELECTIVES

(Choose any 2 courses from MTH 3XX or MTH 4XX.)

COURSE	COURSE TITLE	HOURS
MTH 300	Linear Algebra	3
MTH 331	Abstract Algebra	3
MTH 352	Probability and Statistics II	3
MTH 373	Advanced Vector Calculus	3
MTH 382	Introduction to Applied Math	3
MTH 401	Numerical Analysis I	3
TOTAL HOURS REQUIRED		6

TOTAL DEGREE HOURS REQUIRED	16
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DEPARTMENT OF NURSING AND ALLIED HEALTH

Dr. Mildred Fuller
Department Head (I)
(757) 823 - 9013

NURSING

Nursing offers the Traditional and Bachelor of Science Degree Programs in Nursing, which are fully accredited by the Accreditation Commission for Education in Nursing (ACEN), 3343 Peachtree Road, NE, Suite 850 Atlanta, GA 30326 (404) 975-5000; Fax: (404) 975-5020 and approved by the Virginia Board of Nursing, Perimeter Center, 9960 Maryland Drive, Suite 300, Henrico, VA 23233-1463 (804) 367- 4515. The traditional track can be completed in five (5) semesters. The Bachelor of Science (BSN) degree is designed as an upper-level program for individuals who have associate degrees or diplomas in nursing.

Graduates are prepared as generalists in the practice of professional nursing. Upon graduation from the pre-licensure programs, individuals are eligible to take the National Council Licensing Examination (NCLEX-RN) for Registered Nurses.

The Virginia Board of Nursing has the authority to deny, revoke, or suspend a license issued, or to otherwise discipline a licensee upon proof that the licensee has violated any of the provisions of a specified Code of Virginia. Individuals with criminal records may be denied licensure and should contact the Virginia Board of Nursing for further information.

POLICIES

Specific policies related to grading, promotion, and retention in the program are delineated in the Student Handbook.

CRITERIA FOR READMISSION

Readmission is competitive and is granted on a space available basis. A Letter of Request for Readmission should be addressed to the Admissions Coordinator.

The Admissions, Promotion, and Retention Committee makes recommendations for readmission. The final decision to grant readmission to the nursing program, however, rests with the Department Chairperson.

ALLIED HEALTH

Allied Health offers a Bachelor of Science degree in Health Services Management, a Certificate of Completion in Health Services Management, concentration in Health Services Management, and a Bachelor of Science in Health Services Management/ Food Science and Nutrition concentration.

POLICIES

Admission to the Health Services Management Program is contingent upon acceptance by Norfolk State University.

Specific policies related to the Food Science and Nutrition Concentration are delineated in the Student Handbook.

The Food Science and Nutrition Concentration is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND); 120 South Riverside Plaza, Suite 2190, Chicago, IL 60606-6995, (312) 899-0040 ext 5400., <http://www.eatright.org/ACEND>.

Traditional Baccalaureate Completion Nursing Program Admission Criteria

Applications for the Traditional Completion Program are open to all qualified students and is highly competitive.

Admission is not guaranteed.

The general admission criteria are:

1. Admission to the University on or before March 1st (prior to the fall semester of desired entry) or on or before October 5th (prior to the spring semester of desired entry).
2. Submit separate Nursing Program Application for admission to the Department of Nursing and Allied Health on or before March 1st for fall admission or on or before October 5th for spring admission.
3. Receipt of official transcript(s) from previously attended college(s) and high school.
4. Completion of one algebra course, one general mathematics course, one biology course with a lab (will accept high school).
5. A cumulative NSU grade point average of 2.8, and a "C" or above in the listed below prerequisite courses or credit by examination (CLEP or ACT), all of which must be completed before the start of the program.
6. Students seeking admission to pre-licensure programs are required to complete the HESI A2 Entrance Exam.
7. Students seeking admission to pre-licensure programs are required to pass the HESI A2 Entrance Exam before submitting a nursing application. Students will be allowed to take the HESI A2 twice during an academic year at NSU. Potential applicants must achieve a 70% or greater composite score in the specified sub-categories (Reading/Comprehension; Vocabulary/Grammar; Anatomy and Physiology; Math) and a 75% or greater cumulative score in each subject category (i.e. English and Science) as well as a 75% cumulative overall score. Additional information may be received from the University Testing Center at testingcenter@nsu.edu.

COURSE NUMBER	PREREQUISITE	CREDIT HOURS
Fall Semester, Year One		
SEM 101	Spartan Seminar 101	1
ENG 101/101H	College English I	3
BIO 165 & BIO 165L	Anatomy and Physiology I, Lecture and Lab)	4
CSC 150/150H	Computer Application	3
MTH 102* OR MTH 105*	Algebra (*Will accept High School)	-
	Semester Total	11
Spring Semester, Year One		
SEM 102	Spartan Seminar 102	1
ENG 102/102H	College English II	3
BIO 100 & BIO 100L	Natural Sciences (*Will accept High School)	-
MTH 250	Statistics	3
FSN 110	Nutrition	3
BIO 166 & BIO 166L	Anatomy & Physiology II, Lecture and Laboratory	4
	Semester Total	14
Fall Semester, Year Two		
SEM 201	Spartan Seminar 201	1
ENG 285/285H	Public Speaking	3
ENG 383 or MUS 234	Cultural Perspective - Humanities	3
CHM 215 & CHM 215L	Chemistry Lecture and Lab	4
SOC 101, HIS 101/101H, HIS 103, BUS 175 or ECN 200	Social Science Elective	3
	Semester Total	14
Spring Semester, Year Two		
PSY 228	Human Growth & Development Psychology	3
BIO 163 & BIO 163L	Anatomy & Physiology II, Lecture and Laboratory	4
HRP 320, HIS 335/336, HIS 371	Cultural Perspective - Social Science	3
ENG 207/207H; MUS 301/301H; FIA 201/201H	Humanities	3
	Semester Total	13
	TOTAL PREREQUISITE CREDITS	52

Traditional Baccalaureate Completion Nursing Program - Fall Admission

COURSE NUMBER	COURSE NAME	CREDIT HOURS
FALL SEMESTER, FIRST SEMESTER		
NUR 300	Foundations of Professional Development	1
NUR 304	Nursing Informatics	2
NUR 322	Health Assessment	4
NUR 348	Nursing Pharmacology	3
NUR 342	Fundamentals of Nursing	4
NUR 342L	Fundamentals of Nursing Lab	2
	Total Semester Credits	16
SPRING SEMESTER, SECOND SEMESTER		
NUR 360	Nursing Care of Adults I	6
NUR 360L	Nursing Care of Adults I Lab	3
NUR 400	Nursing Pathophysiology	3
NUR 461/NUR 461H	Nursing Research Dimensions	3
	Total Semester Credits	15
SUMMER SESSION, THIRD SEMESTER		
NUR 332	Genetics and Genomics	2
NUR 446	Nursing of Women and the Childbearing Family	2
NUR 446L	Nursing of Women and the Childbearing Family Lab	2
NUR 450	Nursing of Children, Adolescents & Families	2
NUR 450L	Nursing of Children, Adolescents & Families Lab	2
	Total Semester Credits	10
FALL SEMESTER, FOURTH SEMESTER		
NUR 440	Nursing Care of Adults II	6
NUR 440L	Nursing Care of Adults II Lab	3
NUR 442	Psychiatric/Mental Health Nursing	2
NUR 442L	Psychiatric/Mental Health Nursing Lab	2
NUR 485/NUR 485H	Contemporary Issues in Nursing & Health care	3
	Total Semester Credits	16
SPRING SEMESTER, FIFTH SEMESTER		
NUR 463	Capstone Theory	2
NUR 463L	Capstone Lab - Preceptorship	3
NUR 462/NUR 462H	Nursing Leadership & Management** 1 st 8 weeks	3
NUR 490	Community Health Nursing** 1 st 8 weeks	2
NUR 490L	Community Health Nursing Lab** 1 st 8 weeks	2
	Total Semester Credits	12
	Total Nursing Program Credits	69
	Total Prerequisite Credits	52
	Total Program Credits	121

Notes on Program

- Clinical hours may range from 6 hours to 12 hours per day dependent upon course specific clinical hour requirements.
- Every effort will be made to have lecture and clinical hours held during weekdays, however, some evening and/or weekend clinical arrangements may be necessary.
- All students must participate in a minimum of 500 direct care and simulation hours (not to exceed 100 simulation hours).

Traditional Baccalaureate Completion Nursing Program - Spring Admission

COURSE NUMBER	COURSE NAME	CREDIT HOURS
SPRING SEMESTER, FIRST SEMESTER		
NUR 300	Foundations of Professional Development	1
NUR 304	Nursing Informatics	2
NUR 322	Health Assessment	4
NUR 348	Nursing Pharmacology	3
NUR 342	Fundamentals of Nursing	4
NUR 342L	Fundamentals of Nursing Lab	2
	Total Semester Credits	16
SUMMER SESSION, SECOND SEMESTER		
NUR 360	Nursing Care of Adults I	6
NUR 360L	Nursing Care of Adults I Lab	3
NUR 400	Nursing Pathophysiology	3
	Total Semester Credits	12
FALL SEMESTER, THIRD SEMESTER		
NUR 332	Genetics and Genomics	2
NUR 446	Nursing of Women and the Childbearing Family	2
NUR 446L	Nursing of Women and the Childbearing Family Lab	2
NUR 450	Nursing of Children, Adolescents & Families	2
NUR 450L	Nursing of Children, Adolescents & Families Lab	2
NUR 461/NUR 461H	Nursing Research Dimension	3
	Total Semester Credits	13
SPRING SEMESTER, FOURTH SEMESTER		
NUR 440	Nursing Care of Adults II	6
NUR 440L	Nursing Care of Adults II Lab	3
NUR 442	Psychiatric/Mental Health Nursing	2
NUR 442L	Psychiatric/Mental Health Nursing Lab	2
NUR 485/NUR 485H	Contemporary Issues in Nursing & Health care	3
	Total Semester Credits	16
SUMMER SESSION, FIFTH SEMESTER		
NUR 463	Capstone Theory	2
NUR 463L	Capstone Lab - Preceptorship	3
NUR 462/NUR 462H	Nursing Leadership & Management** 1 st 5 weeks	3
NUR 490	Community Health Nursing** 1 st 5 weeks	2
NUR 490L	Community Health Nursing Lab** 1 st 5 weeks	2
	Total Semester Credits	12
	Total Nursing Program Credits	69
	Total Prerequisite Credits	52
	Total Program Credits	121

Notes on Program

- Clinical hours may range from 6 hours to 12 hours per day dependent upon course specific clinical hour requirements.
- Every effort will be made to have lecture and clinical hours held during weekdays, however, some evening and/or weekend clinical arrangements may be necessary.
- All students must participate in a minimum of 500 direct care and simulation hours (not to exceed 100 simulation hours).

College of Science, Engineering, and Technology

Upper Level Baccalaureate Program Online (RN to BSN) Track

Admission to the Upper Level Baccalaureate Program in Nursing is competitive and open to all qualified applicants.

Admission is not guaranteed.

The general admission criteria are:

1. Admission to the University prior to the start of any semester.
2. Submission of a separate and complete application package for admission to the Department of Nursing and Allied Health after admission to the University and prior to the start of the semester in which one desires to attend.
3. Receipt of official transcript(s) from previously attended college(s). Eligibility will be determined by the GPA from the most recent transcript.
4. Current license to practice as a Registered Nurse in the Commonwealth of Virginia or Compact License.
5. Completion of one algebra course, one general mathematics course, one biology course with a lab, and one chemistry course with a lab (will accept high school applicable courses). A minimum grade of "C" is required in each course or credit by examination (CLEP or ACT).
6. Students with a GED must also show proof of all required courses listed in #5 above and a grade of "C" or above. If the student has not taken any of the required courses, the student must take college level courses for which a grade of "C" or above can be awarded.
7. A cumulative grade point average of 2.5, and a course grade of "C" or above in the listed below prerequisite courses.

All prerequisite courses must be completed before the start of the Online RN-BSN Program.

PREREQUISITE COURSES FOR ONLINE RN TO BSN PROGRAM TRACK		
COURSE	COURSE TITLE	HOURS
TIER 1 GENERAL EDUCATION REQUIREMENTS		
SEM 101	Student Success Seminar 101	1
ENG 101/ENG 101H	College English I	3
ENG 102/ENG 102H	College English II	3
ENG 285/285H	Public Speaking	3
TIER 2 GENERAL EDUCATION REQUIREMENTS		
ENG 207; FIA 201; or MUS 301	Humanities	3
CHM 215, CHM 215L	Chemistry	4
SEM 102	Student Success Seminar 102	1
BUS 175; ECN 200; HIS 101; HIS 103; or SOC 101	Social Sciences	3
CSC 150	Digital, Computer, & Telecommunications	3
TIER 3 GENERAL EDUCATION REQUIREMENTS		
HUM XXX	Elective (Humanities Transfer Credits)	3
SEM 201	Student Success Seminar 201	1
Social Science Elective	Social Science Transfer Credits	3
NURSING PROGRAM REQUIREMENTS		
BIO 165 & BIO 165L	Anatomy and Physiology, Part I and Laboratory	4
BIO 166 & BIO 166L	Anatomy and Physiology, Part II and Laboratory	4
BIO 163, BIO 163L	Microbiology in Health Science and Laboratory	4
BIO 320	Pathophysiology	3
PSY 228	Human Growth & Development Psychology	3
MTH 250	Statistics	3
HRP 320	African American Health (University cultural perspective required)	3
TOTAL PREREQUISITE CREDITS REQUIRED		55
CREDITS AWARDED FOR LOWER LEVEL NURSING DEGREE		36
TOTAL PREREQUISITE CREDITS		91

Upper Level Baccalaureate Program Online (RN to BSN) Track Full-Time

CURRICULUM

FIRST SEMESTER

8 WEEK TERMS	COURSE	COURSE TITLE	HOURS
TERM 1	NUR 301	Foundations of Online Success: BSN Orientation	3
TERM 1	NUR 418/H	Conceptual Models for Nursing	3
TERM 1	NUR 461/H	Nursing Research Dimensions	3
TERM 2	NUR 321/H	Multiculturalism/Bioethics	3
TERM 2	NUR 415	Health Assessment	4
Total Semester Credits			16

SECOND SEMESTER

8 WEEK TERMS	COURSE	COURSE TITLE	HOURS
TERM 3	NUR 435	Providing Complex Nursing Systems for Families and Groups	3
TERM 3	NUR 435L	Providing Complex Nursing Systems for Families and Groups Laboratory	2
TERM 4	NUR 462/H	Nursing Leadership & Management	3
TERM 4	NUR 470	Professional Development Seminar	3
TERM 4	NUR 485/H	Contemporary Issues in Nursing and Health Care	3
Total Semester Credits			14
Total Major Credits			30
Total Prerequisite Credits			55
Credits Awarded for lower level Nursing Degree			36
Total Program Credits			121

**Note on Program: The department also offers a part-time
5-term Online RN to BSN track.**

B.S. in Health Services Management

Dr. Marie St. Rose
Director, Allied Health
(757) 823-2480

PROGRAM DESCRIPTION

The Health Services Management Program is organized around a core of lower level general education courses, a core of business management courses taken in the intermediate years, and further generic orientation to the unique managerial processes in health services industry in the form of an internship and on-the-job experiential learning in the last year.

B.S. in Health Services Management

CURRICULUM

FIRST YEAR

COURSE	COURSE TITLE	HOURS
SEM 101/102	SPARTAN SEMINARS 101 AND 102	2
ACC 201	Principles of Financial Accounting	3
ACC 202	Principles of Managerial Accounting	3
ENG 101	College English I	3
ENG 102	College English II	3
HRP 120	Medical Terminology	3
HED 100	Personal and Community Health	2
PED 100	Fundamentals of Fitness for Life	1
CSC 150	Computer Concepts and Applications	3
MTH 151	College Algebra or MTH 131, MTH 132, MTH 153	3
XXX XXX	Natural Sciences BIO 100 or BIO 110 or SCI 101	7
TOTAL HOURS REQUIRED		33

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
ECN 211	Principles of Microeconomics	3
ECN 212	Principles of Macroeconomics	3
ENG 203	Advanced Comm. Skills or BUS 330	3
ENG 285	Public Speaking	3
HSM 300	Health Services Mgmt.	3
HSM 300L	Health Services Mgmt. Lab	1
HSM 310	Health Personnel Management	3
PSY 210	Introduction to Psychology	3
MTH 250	Elementary Statistics Concepts or PSY 270, SOC 355, POS 345, DSC 270	3
XXX XXX	Social Sciences BUS 175, ECO 200, HIS 100, HIS 103, SOC 101	3
XXX XXX	Cultural Humanities*	3
TOTAL HOURS REQUIRED		32

* ENG 383, MUS 234

** HIS 335, HIS 336, HIS 371, HRP 320

THIRD YEAR

COURSE	COURSE TITLE	HOURS
HRP 310	Current Trends in Health Care Delivery	3
HSM 311	Legal Aspects and Ethics of Health Care Delivery	3
HSM 331	Health Financial Management	4
BUS 365	Organizational Behavior and Theory	3
HSM 368	Healthcare Marketing	3
HSM 387	Population Health	3
HSM 397	Healthcare Information Systems	3
XXX XXX	Humanities ENG 207 or MUS 301 or FIA 201	3
XXX XXX	Cultural Social Sciences **	3
TOTAL HOURS REQUIRED		28

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
HSM 451	Comprehensive Health Planning	3
HSM 454	Long Term Care Administration	3
HSM 460	Public Health Administration	3
HSM 470	Managerial Epidemiology	3
HSM 494	Health Services Management Internship	6
HSM 497	Health Services Management Problems and Research	3
XXX XXX	Free Electives	6
TOTAL HOURS REQUIRED		27

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	74
Electives	6
TOTAL DEGREE HOURS REQUIRED	120

B.S. in Health Services Management - ONLINE**CURRICULUM****FIRST YEAR**

COURSE	COURSE TITLE	HOURS
SEM 102/102	Spartan Seminars 101 & 102	2
ACC 201	Principles of Financial Accounting	3
ACC 202	Principles of Managerial Accounting	3
ENG 101	College English I	3
ENG 102	College English II	3
HRP 120	Medical Terminology	3
HED 100	Personal & Community Health	2
PED 100	Fundamentals for Fitness for Life	1
CSC 150	Computer Concepts and Applications	3
MTH 151	College Algebra or MTH 131, MTH 132, MTH 153	3
XXX XXX	Natural Sciences BIO 100/100L, SCI 101	7
TOTAL HOURS REQUIRED		33

THIRD YEAR

COURSE	COURSE TITLE	HOURS
HRP 310	Current Trends in Health Care Delivery	3
HSM 311	Legal Aspects and Ethics of Health Care Delivery	3
HSM 331	Health Financial Management	4
BUS 365	Organizational Behavior and Theory	3
HSM 368	Healthcare Marketing	3
HSM 387	Population Health	3
HSM 397	Healthcare Information Systems	3
XXX XXX	Humanities ENG 207 or MUS 301 or FIA 201	3
XXX XXX	Cultural Social Sciences	3
TOTAL HOURS REQUIRED		28

SECOND YEAR

COURSE	COURSE TITLE	HOURS
ECN 211	Principles of Microeconomics	3
ECN 212	Principles of Macroeconomics	3
ENG 203	Advanced Comm. Skills or BUS 330	3
ENG 285	Public Speaking	3
HSM 300	Health Services Management	3
HSM 300L	Health Services Management Lab	1
HSM 310	Health Personnel Management	3
PSY 210	Introduction to Psychology	3
MTH 250	Elementary Statistics Concepts or PSY 270, SOC 355, POS 345, DSC 270	3
XXX XXX	Social Sciences: BUS 175, ECO 200, HIS 101, HIS 103, SOC 101	3
XXX XXX	Cultural Humanities*	3
SEM 201	Spartan Seminar 201	1
TOTAL HOURS REQUIRED		32

* ENG 383, MUS 234

** HIS 335, HIS 336, HIS 371, HRP 320

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
HSM 451	Comprehensive Health Planning	3
HSM 454	Long Term Care Administration	3
HSM 460	Public Health Administration	3
HSM 470	Managerial Epidemiology	3
HSM 494	Health Services Management Internship	6
HSM 497	Health Services Management Problems and Research	3
XXX XXX	Free Electives	6
TOTAL HOURS REQUIRED		27

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	74
Electives	6
TOTAL DEGREE HOURS REQUIRED	120

Certificate Program in Health Services Management

The Certificate in Health Services Management is designed for health care professionals who are seeking to improve their management, administrative, and leadership skills. The target audience for the Certificate Program:

- (1) persons already employed in the health care field with an associate or bachelor's degree;
- (2) persons currently in a managing position in the health care field or on a career path in the direction of health care management; and
- (3) persons interested in gaining knowledge of careers in the health care field.

Students wishing to pursue the Certificate in Health Services Management must do the following:

1. Apply for admission to the University.
2. Have a letter of recommendation.
3. Have a current position in the health care field,
4. Write a detailed statement of interest in health care management if not employed in the health care field, and
5. Take all semester credits applicable to the Certificate Program at Norfolk State University.

COURSE WORK

Courses are taught on-line.

- HSM 300 – Health Services Management (3 Credit Hours)
- HSM 310 – Health Personnel Management (3 Credit Hours)
- HSM 311 – Legal Aspects and Ethics of Health Care Delivery (3 Credit Hours)
- HSM 331 – Health Financial Management (4 Credit Hours)

CONCENTRATION IN HEALTH SERVICES MANAGEMENT

The concentration in Health Services Management is for students who have Interdisciplinary Studies as their major. Those students seeking a concentration in Health Services Management can take the Health Services Management core courses as directed by the division of Interdisciplinary Studies (Department of History and Interdisciplinary Studies).

B.S. in Health Services Management - Food Science and Nutrition Concentration**CURRICULUM****FIRST YEAR**

COURSE	COURSE TITLE	HOURS
SEM 101/102	Spartan Seminars 101 & 102	2
CHM 221	General Chemistry and	3
CHM 221L	General Chemistry Lab	1
ENG 101	College English I	3
ENG 102	College English II	3
BIO 165	Human Anatomy and Physiology	3
BIO 165L	Human Anatomy & Physiology Lab	3
HED 100	Personal & Community Health	2
PED 100	Fundamentals for Fitness for Life	1
CSC 150	Computer Concepts and Applications	3
BIO 166	Human Anatomy & Physiology II	3
BIO 166L	Human Anatomy & Physiology II Lab	1
MTH 153	College Algebra & Trigonometry	3
CHM 222	General Chemistry and	3
CHM 222L	General Chemistry Lab	1
TOTAL HOURS REQUIRED		33

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SOC 101	Introduction to the Social Science	3
BIO 310	General Microbiology	3
BIO 310L	General Microbiology Lab	1
ENG 285	Public Speaking	3
MTH 250	Elementary Statistics	3
FSN 101	Introduction to Dietetics & Food	1
HSM 300	Health Services Management	3
FSN 110	Science of Human Nutrition	3
HRP 320	African American Health	3
ENG 207	Introduction to World Literature	3
CHM 312	Introduction to Organic	3
CHM 312L	Chemistry Introduction to Organic Chemistry Lab	3
SEM 201	Spartan Seminar 201	1
TOTAL HOURS		33

* ENG 383, MUS 234

** HIS 335, HIS 336, HIS 371, HRP 320

THIRD YEAR

COURSE	COURSE TITLE	HOURS
BIO 469	Biochemistry	3
BIO 469L	Biochemistry Lab	1
HSM 311	Legal Aspects and Ethics of Health Care Delivery	3
HSM 331	Health Financial Management	4
HSM 310	Health Personnel Management	3
ENG 383	African American Literature	3
HSM 368	Healthcare Marketing	3
HSM 387	Population Health	3
HSM 397	Healthcare Information Systems	3
HSM 454	Long Term Care Administration	3
TOTAL HOURS REQUIRED		28

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
FSN 312	Physiological & Chemical Foundations of Nutrition	3
FSN 320	Food Service Administration	3
FSN 330	Scientific Food Development	3
FSN 330L	Scientific Food Development Lab	1
FSN 340	Nutrition Education	3
FSN 356	Advanced Nutrition and Human	3
FSN 426	Nutrition in Disease	3
FSN 426L	Nutrition in Disease Lab	1
FSN 460	Quantity Food Production	3
FSN 484	Rural/Urban Nutrition	3
HSM 497	Health Services Management Problems	3
TOTAL HOURS REQUIRED		29

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	83
TOTAL DEGREE HOURS REQUIRED	123

DEPARTMENT OF PHYSICS

Mr. Milton Ferguson
Department Head
(757) 823-2275

The Department of Physics provides the instruction necessary for the understanding of physics and earth science for students in this department and for other departments of the University. The Department also provides the research basis for students wishing to contribute to knowledge in the areas mentioned.

The Department offers the B.S. degree in Physics. Its graduates may enter occupations in industry, government, and education. Many graduates continue their education in graduate or professional schools. Students in other departments may elect to minor in either physics or astronomy.

The Minor in Astronomy is an ideal complementary minor primarily for students majoring in mathematics, engineering, or the sciences. All science students are invited to complete the astronomy minor. Students majoring in Biology, Chemistry, Computer Science, Mathematics, and Physics are the main target for this minor.

The Department also offers graduate study courses leading to the Master of Science degree in Materials Science. An undergraduate student may also elect to pursue a five-year dual degree: B.S. in Physics and M.S. in Materials Science.

The objectives of the Department are:

1. To develop in students an appreciation of the scientific method and its use in the solution of physical problems.
2. To develop the basic training in physics designed to meet the needs of students in pre-professional fields and professional fields.
3. To develop in students those qualities and abilities necessary for success in industry and advanced degree institutions.
4. To offer sufficient specialized training beyond the generally recognized basic courses to enable a graduate with a bachelor's degree to enter directly into a professional career.

B.S. in Physics**CURRICULUM****FIRST YEAR**

COURSE	COURSE TITLE	HOURS
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
MTH 184	Calculus I	4
MTH 251	Calculus II	4
PED 100	Fundamentals of Fitness for Life	1
PHY 160	University Physics I	4
PHY 160L	University Physics Lab I	1
PHY 161	University Physics II	4
PHY 161L	University Physics Lab II	1
SEM 101/102	Spartan Seminars 101 and 102	2
TOTAL HOURS REQUIRED		29

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
XXX XXX	Cultural Elective	3
XXX XXX	(Humanities) Humanities	
XXX XXX	Elective from General Education core	3
XXX XXX	Elective (unrestricted)	3
CSC 169	Introduction to Computer Science	3
MTH 252	Calculus III	4
MTH 372	Differential Equations	3
PHY 241	Physics Seminar	1
PHY 260	University Physics III	4
PHY 345	Mathematical Methods for Physical Science I	3
PHY 350	Modern Physics	3
PHY 351	Concepts in Modern Physics	1
TOTAL HOURS REQUIRED		32

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	68
Electives	0
Other Requirements	12
TOTAL DEGREE HOURS REQUIRED	120

THIRD YEAR

COURSE	COURSE TITLE	HOURS
CHM 221	General Chemistry I	3
CHM 221L	General Chemistry Lab I	1
CHM 222	General Chemistry II	3
CHM 222L	General Chemistry Lab II	1
PHY 365	Mechanics I	3
PHY 366	Mechanics II	3
PHY 375	Electricity and Magnetism I	3
PHY 380	Quantum Mechanics I	3
PHY 399	Advanced Lab	2
PHY 445	Mathematical Methods for Physical Sciences II	3
ENG 285	Public Speaking	3
XXX XXX	Social Science Elective from the General Core	3
TOTAL HOURS REQUIRED		31

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
XXX XXX	Elective (Unrestricted)	9
XXX XXX	Cultural Perspectives (Social Sciences)	3
PHY 356	Thermodynamics	3
PHY 468	Optics	3
PHY 475	Electricity and Magnetism II	3
PHY 480	Quantum Mechanics II	3
PHY 498	Senior Project I	2
PHY 499	Senior Project II	2
TOTAL HOURS REQUIRED		28

Cultural Perspectives (6 Credit Hours)

Humanities : Students must select one (1) course:

ENG 383 (3 hrs), MUS 234 (3 HRS)

Social Sciences: Students must select one (1) course:

HIS 335 (3 HRS), HIS 336 (3 HRS)

HIS 371 (3 HRS), HRP 320 (3 HRS)

Teacher Certification in Physics

CURRICULUM

FIRST YEAR

COURSE	COURSE TITLE	HOURS
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
MTH 184	Calculus I	4
MTH 251	Calculus II	4
PED 100	Fundamentals of Fitness for Life	1
PHY 160	University Physics I	4
PHY 160L	University Physics Lab I	1
PHY 161	University Physics II	4
PHY 161L	University Physics Lab II	1
SEM 101/102	Spartan Seminars 101 and 102	2
TOTAL HOURS REQUIRED		29

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM201	Spartan Seminar 201	1
BIO 110	General Biology	3
CSC 170	Computer Programming I	3
EDU 201	Foundations of Education	3
MTH 252	Calculus III	4
MTH 372	Differential Equations	3
PHY 241	Physics Seminar	1
PHY 260	University Physics III	4
PHY 345	Mathematical Methods for Physical Sciences I	3
PHY 350	Modern Physics	3
PHY 351	Concepts in Modern Physics	1
XXX XXX	Humanities Elective (from the General Education Core)	3
TOTAL HOURS REQUIRED		32

Cultural Perspectives (6 Credit Hours)

Humanities: Students must select one (1) course:
ENG 383 (3 hrs), MUS 234 (3 hrs)

Social Sciences: Students must select one (1) course:
HIS 335 (3HRS), HIS 336(3 HRS),
HIS 371 (3 HRS)
HIS 320 (3 HRS)

THIRD YEAR

COURSE	COURSE TITLE	HOURS
CHM 221	General Chemistry I	3
CHM 221L	General Chemistry Lab I	1
CHM 222	General Chemistry II	3
XXX XXX	Social Science Elective from the General Education Core	3
PSY 228	Human Growth and Development	3
PHY 365	Mechanics I	3
PHY 375	Electricity and Magnetism I	3
PHY 380	Quantum Mechanics I	3
SED 405	Reading in the Content Areas	3
ENG 285	Public Speaking	3
SOC 101	Physical Science	3
TOTAL HOURS REQUIRED		31

FOURTH YEAR

COURSE	COURSE	HOURL
EDU 381	Classroom and Behavior Management	3
SED 385	Curriculum and Instructional Procedures	3
PHY 468	Optic	3
PHY 498	Senior Project I	2
SED 499	Directed Teaching	12
XXX XXX	Cultural Perspectives (Humanities)	3
XXX XXX	Cultural Perspectives (Social Sciences)	3
TOTAL HOURS REQUIRED		9

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	54
Electives	12
Other Requirements	15
TOTAL DEGREE HOURS REQUIRED	121

Teacher Licensure Endorsement in Physics

Students wishing to pursue a career in teaching must take the following steps:

1. Follow the curriculum for the B.S. degree in Physics.
2. Use the elective hours for professional courses.
3. See the academic advisor in their major department.
4. See the academic advisor in the Department of Secondary Education and School Leadership in the Bozeman Education Building, Room 200.
5. Take the PRAXIS test and make a passing score. (See the School of Education PRAXIS coordinator, JBB 125.)
6. Take the following professional education courses (18 semester hours) plus student teaching (12 semester hours).

COURSE	COURSE TITLE
EDU 201	Foundations of Education
SED 233	Seminar in Assessment and Evaluation
SED 380	Foundations of Methods in Secondary Schools
SED 420	Educational Technology
SED 486	Educational Psychology and Behavior Management
SED 488	School/Community Relations
SED 499	Directed Teaching and Seminar

Minor in Physics

CURRICULUM

CORE REQUIREMENTS

COURSE	COURSE TITLE	HOURS
PHY 160	University Physics I	4
PHY 160L	University Physics I Lab	1
PHY 161	University Physics II	4
TOTAL HOURS REQUIRED		9

UPPER DIVISION COURSES

COURSE	COURSE TITLE	HOURS
PHY 350	Modern Physics	3
HOURS REQUIRED		3

CHOOSE ANY TWO (2) OF THE FOLLOWING COURSES:

COURSE	COURSE TITLE	HOURS
PHY 365	Physical Mechanics I	3
PHY 366	Physical Mechanics II	3
PHY 375	Electricity and Magnetisms I	3
PHY 475	Electricity and Magnetisms II	3
PHY 380	Quantum Mechanics I	3
PHY 480	Quantum Mechanics II	3
TOTAL HOURS REQUIRED		9

TOTAL DEGREE HOURS REQUIRED	18
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Five Year Dual Degree: B.S. Physics and M.S. Materials Science

CURRICULUM

FIRST YEAR

COURSE	COURSE TITLE	HOURS
CSC 169	Introduction to Computer Science	3
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
MTH 184	Calculus I	4
MTH 251	Calculus II	4
PED 100	Fundamentals of Fitness for Life	1
PHY 160	University Physics I	4
PHY 160L	University Physics I Lab	1
PHY 161	University Physics II	4
PHY 161L	University Physics II Lab	1
SEM 101/102	Spartan Seminars 101 & 102	2
TOTAL HOURS REQUIRED		32

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
CHM 221	General Chemistry	3
CHM 221L	General Chemistry I Lab	1
CHM 222	General Chemistry II	3
CHM 222L	General Chemistry II Lab	1
EEN 301	Engineering Electronics	3
ENG 203	Advanced Communication Skills	3
XXX XXX	Cultural Perspectives (Humanities)	3
MTH 252	Calculus III	4
MTH 372	Differential Equations	3
PHY 241	Physics Seminar	1
PHY 260	University Physics III	4
PHY 350	Modern Physics	3
PHY 351	Experimental Concepts in Modern Physics	1
TOTAL HOURS REQUIRED		34

SUMMER

COURSE	COURSE TITLE	HOURS
PHY 397	Research (to fill Elective Requirement)	3
TOTAL HOURS REQUIRED		3

THIRD YEAR

COURSE	COURSE TITLE	HOURS
PHY 356	Thermodynamics	3
PHY 365	Mechanics I	3
PHY 366	Mechanics II	3
PHY 375	Electricity and Magnetism I	3
PHY 380	Quantum Mechanics I	3
PHY 399	Advanced Laboratory	2
ENG 285	Public Speaking	3
XXX XXX	Social Science Elective from the Core	3
XXX XXX	Cultural Perspectives (Social Sciences)	3
XXX XXX	Elective (unrestricted)	1
XXX XXX	Restricted Math Elective*	6
TOTAL HOURS REQUIRED		33

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
CHM 545	Mathematical Method	3
MSE 530	Materials Science	3
MSE 533	Polymers and Composites	3
XXX XXX	Humanities Elective from the Core	3
PHY 468	Optics	3
PHY 475	Electricity and Magnetism II	3
PHY 480	Quantum Mechanics II	3
PHY 565	Physical Mechanics	3
PHY 498	Senior Project I	2
PHY 499	Senior Project II	2
PHY 580	Quantum Mechanics for Materials Science	3
TOTAL HOURS REQUIRED		31

* Restricted math elective to be selected from the following:
MTH300, 373, 474, PHY 345, PHY 445

Continued on next page →

SUMMER

COURSE	COURSE TITLE	HOURS
MATS 697	Research	3
TOTAL HOURS REQUIRED		3

Cultural Perspectives (6 Credit Hours) Humanities (Select 1 course)

ENG 383 (3 hrs) MUS 234 (3 hrs)

Social Sciences (Select 1 course)
HIS 335 (3HRS), HIS 336(3 HRS)
HIS 371 (3 HRS), HIS 320 (3 HRS)

FIFTH YEAR

COURSE	COURSE TITLE	HOURS
CHM 573	Advanced Inorganic Chemistry	3
CHM 663	Atomic and Molecular Spectroscopy	3
CHM 633	Molecular Dynamics	3
MATS 575	Instrumentation	3
MATS 710	Special Topics	3
MATS 797	Research	3
MATS 799	Thesis Preparation	3
PHY 653	Solid State Physics	3
PHY 675	Electricity/Magnetism	3
TOTAL HOURS REQUIRED		27

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	70
Electives	10
Other Requirements	43
TOTAL DEGREE HOURS REQUIRED	163

Minor in Astronomy

The Minor in Astronomy is an ideal complement for students in two general categories.

- Students currently majoring in engineering or the sciences.
- Students who have taken the introductory Math and Physics courses required of engineering and science majors, but have since changed their majors. While all science students are invited to complete the astronomy minor, students who are not required to complete an introductory sequence of Physics courses as part of their major, may find scheduling more difficult. Students majoring in Biology, Chemistry, Computer Science, Mathematics, and Physics are the main target for this minor.

CURRICULUM

CORE REQUIREMENTS

COURSE	COURSE TITLE	HOURS
PHY 152	General Physics I	3
PHY 153	General Physics II	3
AST 201	Astronomy	3
TOTAL HOURS REQUIRED		9

CHOOSE ANY THREE FROM THE FOLLOWING COURSES:

COURSE	COURSE TITLE AST	HOURS
AST 301	Methods of Observational	3
AST 302	Astrobiology	3
AST 303	Introduction to Astrophysics	3
AST 401	Stellar Astrophysics	3
TOTAL HOURS REQUIRED		9

TOTAL DEGREE HOURS REQUIRED	18
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DEPARTMENT OF TECHNOLOGY

Dr. Jeenson Sheen
Department Head
(757) 823-8057

The Department offers degrees in the following program areas:

B.S. degree in Construction Management Engineering Technology; B.S. degree in Computer Engineering Technology; B.S. degree in Electronic Engineering Technology; and the A.S. degree in Architectural Drafting Technology. All of the B.S. degree major programs are accredited by the Association of Technology, Management, and Applied Engineering (ATMAE), 3801 Lake Boone Trail Suite 190, Raleigh, NC 27607, (919) 635-8335.

The mission of the Department of Technology is to provide programs and services to prepare graduates for a variety of responsible technological and/or technical management positions in industry, business and government. The Department commits to the responsibility of preparing students in quality industrial technology programs. Accordingly, the department commits, through its academic programs to fostering within students an intrinsic feeling of self-worth that allows them to be the best persons possible, as well as the best technologists.

A.S. in Architectural Drafting

The Architectural Drafting curriculum is designed to provide students with a technical education that will prepare them to work as semi-professionals immediately upon completion of the program. Graduates may fill such typical positions as architectural draftsman, mechanical draftsman, civil draftsman, technical representative, technical draft person, or CAD operator.

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	28
Major Requirements	33
Electives	0
Other Requirements	6
TOTAL DEGREE HOURS REQUIRED	67

A.S. in Architectural Drafting Technology

CURRICULUM

FIRST YEAR

COURSE	COURSE TITLE	HOURS
CMET 162	Materials of Construction	3
CMET 262	Methods of Building Construction I	3
CMET 262L	Construction Methods Lab	1
CSC 150	Construction Computer Literacy	3
ENG 101	College English I	3
CMET 140	Intro. to Construction Management	1
ENG 102	College English II	3
HED 100	Personal and Community Health	2
MTH 151	College Algebra	3
MTH 153	College Algebra & Trigonometry	3
PED 100	Fundamentals of Fitness for Life	1
TMD 150	Engineering Graphics	3
TMD 151	Introduction to CAD	3
SEM 101 & 102	Spartan Seminars 101 and 102	2
TOTAL HOURS REQUIRED		34

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
CMET 260	Building Codes and Specifications	3
CMET 263	Fundamentals of Surveying	3
CMET 263L	Fundamentals of Surveying Lab	1
CMET 265	Architectural Details	3
CMET 266	Architectural Drafting	3
IMT 205	Industrial Safety & Management	3
XXX XXX	Humanities Elec. - HUM 210/211; FIA 201; MUS 301; ENG 2017	3
PHY 152	General Physics I	3
PHY 152L	General Physics I Lab	1
TMD 225	Mechanics I: Statics	3
TMD 251	Advanced CAD	3
XXX XXX	Social Science Elective (HIS XXX, PSY 210, SOC 101)	3
TOTAL HOURS REQUIRED		33

General Education Requirements for the Associate Degree in Architectural Drafting

UNIVERSITY FOUNDATIONS (3 SEMESTER HOURS)

SEM 101	Spartan Seminar 101	1
SEM 102	Spartan Seminar 102	1
SEM 201	Spartan Seminar 201	1

COMMUNICATIONS (6 SEMESTER HOURS)

ENG 101	College English I	3
ENG 102	College English II	3

HEALTH AND PHYSICAL EDUCATION (3 SEMESTER HOURS)

PED 100	Fundamentals of Fitness for Life	1
HED 100	Personal and Community Health	2

NATURAL SCIENCES (4 SEMESTER HOURS)

PHY 152	General Physics	3
PHY 152L	General Physics Lab	1

DIGITAL, COMPUTER & TELECOMMUNICATIONS (3 SEMESTER HOURS)

CSC 150	Computer Literacy	3
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MATHEMATICS (3 SEMESTER HOURS)

MTH 153	College Algebra/Trig	3
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SOCIAL SCIENCES (3 SEMESTER HOURS)

HIS 100	History of World Societies I	3
HIS 101	History of World Societies II	3
PSY 210	Intro. to Psychology	3
SOC 101	Intro. to Social Science Basic	3
ECN 200	Principles of Economics	3

HUMANITIES ELECTIVE (3 SEMESTER HOURS)

HUM 210	Humanities	3
HUM 211	Humanities	3
FIA 201	Basic Art Appreciation	3
MUS 301	Music Appreciation	3
ENG 207	Introduction to World Literature	3

B.S. in Construction Management Engineering Technology

CURRICULUM

The Construction Management Engineering Technology program provides a sound background in principles and practices of residential and commercial construction. Courses of instruction include methods and materials of construction, building codes and specifications, architectural and computer-aided drafting, surveying, cost estimates, and computer principles. Students also take courses in statics, strength of materials, and steel structures. Management courses include construction scheduling, organization and supervision of construction, labor and industrial relations, and legal environment of business. Minimum grade requirement of "C" for all courses required for matriculation.

FIRST YEAR

COURSE	COURSE TITLE	HOURS
CMET 162	Materials of Construction	3
CSC 150	Computer Literacy	3
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
MTH 151	College Algebra	3
MTH 153	College Algebra/Trigonometry	3
PED 100	Fundamentals of Fitness for Life	1
TMD 150	Engineering Graphics	3
TMD 151	Introduction to CAD	3
CMET 140	Intro to Construction Management	1
SEM 101/102	Spartan Seminars 101 and 102	2
TOTAL HOURS REQUIRED		30

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
CMET 260	Building Codes and Specifications	3
CMET 262 & 262L	Methods of Building Construction & Lab	4
CMET 263 & 263L	Fundamentals of Surveying I and Lab	4
CMET 265	Architectural Details	3
CMET 266	Architectural Drafting	3
TMD 225	Mechanics I: Statics	3
IMT 244	Industrial Specifications and Technical Documentation	3
MTH 184	Calculus I	4
PHY 152 & 152L	General Physics I & Lab	4
TOTAL HOURS REQUIRED		32

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	52
Electives	6
Other Requirements	23
TOTAL DEGREE HOURS REQUIRED	121

THIRD YEAR

COURSE	COURSE TITLE	HOURS
CMET 363	Methods of Building Construction II	3
CMET 364	Steel Structures	3
CMET 370	Cost Estimates	3
BUS 281	Legal Environment for Business	3
CHM XXX	General Chemistry	3
CHM XXXL	General Chemistry Lab	1
ENG 285	Public Speaking	3
IMT 205	Industrial Safety and Management	3
TMD 345	Mechanics II: Properties of Materials	3
TMD 345L	Mechanics II: Properties of Materials	1
XXX XXX	Social Science Elective (HIS PSY 210, SOC XXX, ECN XXX)	3
XXX XXX	Technical Elective (TMD 251, CSC 169, BCT XXX)	3
TOTAL HOURS REQUIRED		32

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
CMET 376	Soil Mechanics	3
CMET 462	Problem Analysis and Planning	3
CMET 464	Organization and Supervision Of Construction	3
CMET 466	Construction Management Capstone	3
IMT 420	Labor and Industrial Relations	3
XXX XXX	Cultural Social Science Elective (HIS 335/336/371, SOC 237, POS 315, or PSY 340)	3
XXX XXX	Humanities Elective (FIA 301, HUM XXX, MUS 301 or foreign language)	3
XXX XXX	Cultural Humanities Elective (ENG 383, FIA 370, MUS 234)	3
XXX XXX	Elective	3
TOTAL HOURS REQUIRED		27

B.S.in Computer Engineering Technology

CURRICULUM

The Computer Engineering Technology program prepares graduates for careers in maintaining, manufacturing, integration, and support of computer systems. Emphasis is placed on job skills required of professionals in the computer industry; including wireless systems, electronic interfacing, networking, digital communications, oral and written communication, and management principles.

FIRST YEAR

COURSE	COURSE TITLE	HOURL
CSC 170/ CSC 170L	Introduction to Programming I and Lab	4
EET 111/ EET 111L	Circuit Analysis I and Lab	4
EET 212/ EET 212L	Circuit Analysis II and Lab	4
ENG 101	College English I	3
ENG 102	College English II	3
IMT 170	Introduction to Technology	1
HED 100	Personal & Community Health	2
MTH 153	College Algebra & Trigonometry	3
MTH 184	Calculus I	4
PED 100	Fundamentals of Fitness for Li	1
SEM 101/102	Spartan Seminars 101 & 102	2
TOTAL HOURS REQUIRED		31

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
EET 213/ EET 213L	Electronic Devices I and Lab	4
EET 220/ EET 220L	Digital Electronics and Lab	4
IMT 244	Industrial Specifications and Technical Documentation	3
PHY 152/ PHY 152L	General Physics I and Lab	4
CET 304/ CET 304L	Digital System Design and Lab	4
EET 313/ EET 313L	Electronic Devices II and Lab	4
PHY 153/ PHY 153L	General Physics II and Lab	4
ENG 285	Public Speaking	3
OTAL HOURS REQUIRED		31

THIRD YEAR

COURSE	COURSE TITLE	HOURS
CET 305/ CET 305L	Computer Organization and Lab	4
CET 315/ CET 315L	Microprocessors and Lab	4
CET 336/ CET 336L	Computer Network Technology I and Lab	4
XXX XXX	Elective	3
XXX XXX	Social Science Elective (HIS XXX, PSY 210, SOC 101, ECN XXX)	3
XXX XXX	Humanities Elective (HUM XXX, FIA 301, MUS 301 or foreign language)	3
IMT 205	Industrial Safety & Management	3
MTH 250	Elementary Statistics Concepts	3
TMD 151	Introduction to CAD	3
TOTAL HOURS REQUIRED		30

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
CET 432/ CET 432L	Computer Interfaces and Lab	4
CET 436/ CET 436L	Computer Networks Technology II and Lab	4
CET 499L	Senior Project Lab	1
EET 413/ EET 413L	Digital Communications Systems and Lab	4
XXX XXX	Cultural Humanities Elective (ENG 383, FIA 370, MUS 234)	3
IMT 413	Project Management	3
IMT 445	Statistical Quality Control	3
XXX XXX	Cultural Elective	3
XXX XXX	(HIS 335/336/371, SOC 237, POS 315 or PSY 340)	3
XXX XXX	Cultural Humanities ENG 383, FIA 370, MUS 234	3
TOTAL HOURS REQUIRED		28

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	49
Electives	6
Other Requirements	25
TOTAL DEGREE HOURS REQUIRED	120

B.S. in Electronic Engineering Technology**CURRICULUM**

The Electronic Engineering Technology program is designed to provide graduates with technical-management competencies needed for professional careers in science, technology, education and management. These careers often require a thorough understanding of electronic instrumentation, industrial controls, and communications.

FIRST YEAR

COURSE	COURSE TITLE	HOURS
SOC XXX	Social Science Elective	3
EET 111	Circuit Analysis I	3
EET 111L	Circuit Analysis I Lab	1
EET212	Circuit Analysis II	3
EET 212L	Circuit Analysis II Lab	1
ENG 101	College English I	3
ENG 102	College English II	3
IMT 170	Introduction to Technology	1
MTH 153	College Algebra and Trigonometry	3
MTH 184	Calculus I	4
PED 100	Fundamentals of Fitness for Life	1
SEM 101/102	Spartan Seminars 101 and 10 2	2
TOTAL HOURS REQUIRED		28

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
CET 304	Digital Systems Design	3
CET 304L	Digital Systems Design Lab	1
CSC 170	Introduction to Programming I	3
CSC 170L	Introduction to Programming I Lab	1
EET 213	Electronic Devices I	3
EET 213L	Electronic Devices I Lab	1
EET 220	Digital Electronics	3
EET 220L	Digital Electronics Lab	1
EET 313	Electronic Devices II	3
EET 313L	Electronic Devices II Lab	1
IMT 244	Industrial Specifications and Technical Documentation	3
PHY 152	General Physics I	3
PHY 152L	General Physics I Lab	1
PHY 153	General Physics II	3
PHY 153L	General Physics II Lab	1
TOTAL HOURS REQUIRED		32

THIRD YEAR

COURSE	COURSE TITLE	HOURS
CET 315	Microprocessors	3
CET 315L	Microprocessors Lab	1
EEN 350	Scientific Instrumentation	3
EET 314	Instrumentation, Measurement and Control	3
EET 315	Analog Communication Systems	3
EET 315L	Analog Communication Systems Lab	1
CET 336	Computer Network Technology I	3
CET 336L	Computer Network Technology Lab	1
IMT 205	Industrial Safety and Management	3
MTH 250	Elementary Statistics	3
ENG 285	Public Speaking	3
TMD 151	Introduction to CAD	3
XXX XXX	Elective	3
TOTAL HOURS REQUIRED		33

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
EET 413	Digital Communications Systems	3
EET 413L	Digital Communications Systems Lab	1
EET 497L	Senior Project I	1
EET498L	Senior Project II	1
HED 100	Personal and Community Health	2
IMT 413	Project Management	3
IMT 445	Statistical Quality Control	3
XXX XXX	Cultural Social Science Elective (HIS 335/336/371, SOC 237, POS 315 or PSY 340) Elective	3
XXX XXX	Humanities Elective (HUM XXX, FIA 301, MUS 301)	4
XXX XXX	Cultural Humanities	3
XXX XXX	Elective (ENG 383, FIA 370, MUS 234)	3
TOTAL HOURS REQUIRED		32

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	45
Electives	7
Other Requirements	28
TOTAL DEGREE HOURS REQUIRED	120

SPECIAL ACADEMIC PROGRAMS

Dozoretz National Institute for Mathematics and Applied Sciences (DNIMAS)

Dr. Aliecia R. McClain, Director

(757) 823-2511

The Dozoretz National Institute for Mathematics and Applied Sciences (DNIMAS) was established in December 1985. Its goal is to address the severe shortage of minority scientists by producing graduates who are capable of successfully completing graduate studies in the basic and applied sciences, and of entering occupations in industry, government, and education. Graduates of the Institute will also be capable of entering medical or other professional schools. Successful completion of the DNIMAS program results in a Bachelor of Science in Biology, a Bachelor of Science in Chemistry, a Bachelor of Science in Computer Science, a Bachelor of Science in Electrical and Electronics Engineering, a Bachelor of Science in Mathematics, a Bachelor of Science in Optical Engineering or a Bachelor of Science in Physics.

The DNIMAS program is unique. All of its students are supported by full, four-year scholarship/grant aid. It represents a major commitment by Norfolk State University to provide the best possible education in the sciences for highly qualified and motivated students. The program features a three week, pre-matriculation summer session, intensive science curricula, reserved microcomputer labs available for student use, research internships, field trips, projects, career counseling, and seminars.

ADMISSION

Students are admitted to the DNIMAS Program from high school for the fall semester of each academic year. Applications are accepted for early decision on or before November 30 of the preceding year. The deadline for applications for regular admission is January 31. Applications to the DNIMAS program may be obtained by writing or calling:

Director of DNIMAS
Norfolk State University
700 Park Avenue
Norfolk, VA 23504
(757) 823-2511

Students in the DNIMAS program may matriculate in one of the following curricula. For details on these curricula and course descriptions, see the departmental descriptions in this catalog.

B.S. in Biology (DNIMAS)**CURRICULUM****FIRST YEAR**

COURSE	COURSE TITLE	HOURS
APS 110	Applied Sciences Seminar	0
APS 111	Applied Sciences Seminar	0
BIO 110H	General Biology I	4
BIO 260	General Zoology	4
CHM 221	General Chemistry I	3
CHM 221L	General Chemistry I Lab	1
CHM 222	General Chemistry II	3
CHM 222L	General Chemistry II Lab	1
ENG 101H	College English I	3
ENG 102H	College English II	3
MTH 184H	Calculus I	4
MTH 251H	Calculus II	4
PED 100	Fundamentals of Fitness for Life	1
SEM 101/102	Spartan Seminars 101 & 102	2
TOTAL HOURS REQUIRED		33

SECOND YEAR

COURSE	COURSE TITLE	HOURS
APS 210	Applied Science Seminar	0
APS 211	Applied Science Seminar	0
BIO 261	General Botany	4
BIO 310	General Microbiology	4
CHM 321	Organic Chemistry I	3
CHM 321L	Organic Chemistry I Lab	2
CHM 322	Organic Chemistry II	3
CHM 322L	Organic Chemistry II Lab	2
CSC 170	Introduction to Computer Science	3
HED 100	Personal and Community Health	2
ENG 285H	Public Speaking	3
XXX XXX	Social Science Elective	3
SEM 201	Spartan Seminar 201	1
TOTAL HOURS REQUIRED		30

THIRD YEAR

COURSE	COURSE TITLE	HOURL
APS 310	Applied Sciences Seminar	0
APS 311	Applied Sciences Seminar	0
BIO 270	Comparative Anatomy or 26	4
BIO 362	Histology and Micro Technique	4
CHM 431	General	3
CHM 431L	General Biochemistry I	2
CHM 432	General Biochemistry	3
CHM 432L	General Biochemistry II	2
CSC 200	Lab Advanced Computer Concepts	3
PHY 160	University Physics	4
PHY 160L	University Physics	1
PHY 161	University Physics	4
PHY 161L	University Physics ab	1
TOTAL HOURS REQUIRED		31

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
APS 410	Applied Sciences Seminar	0
APS 411	Applied Sciences Seminar	0
BIO 351	Principles of	4
BIO 364	Seminar	1
BIO 459	General Physiology	3
BIO 474	Molecular Biology	5
BIO 495	Biostatistics	3
ENG 203/ ENG 303	Advanced Communication Skills	3
BIO XXX	Biology Elective: BIO 263 or BIO 278	4
XXX XXX	Humanities Elective/MUS 301*	3
TOTAL HOURS REQUIRED		26

* Select from HUM 210, MUS 301, FIA 301, ENG 207

All Biology courses with the exception of BIO 459 and BIO 495 require both lecture (3 credits) and lab (1 credit).

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	47
Electives	6
Other Requirements	27
TOTAL DEGREE HOURS REQUIRED	120

B.S. in Biology -- Pre-Professional (DNIMAS)**CURRICULUM****FIRST YEAR**

COURSE	COURSE TITLE	HOURS
APS 110	Applied Sciences Seminar	0
APS 111	Applied Sciences Seminar	0
BIO 110H	General Biology I	4
SEM 101/102	Spartan Seminars 101 and 102	2
BIO 260	General Zoology	4
CHM 221	General Chemistry I	3
CHM 221L	General Chemistry I Lab	1
CHM 222	General Chemistry II	3
CHM 222L	General Chemistry II Lab	1
ENG 101H	College English I	3
ENG 102H	College English II	3
MTH 184H	Calculus I	4
MTH 251H	Calculus II	4
PED 100	Fundamentals of Fitness for Life	1
TOTAL HOURS REQUIRED		33

SECOND YEAR

COURSE	COURSE TITLE	HOURS
APS 210	Applied Sciences Seminar	0
APS 211	Applied Sciences	0
BIO 261	Seminar General Botany	4
BIO 310	General Microbiology	4
CHM 321	Organic Chemistry I	3
CHM 321L	Organic Chemistry I	2
CHM 322	Lab Organic	3
CHM 322L	Chemistry II Organic	2
CSC 170	Introduction to Computer Scienc	3
HED 100	Personal and Community Health	2
ENG 285H	Public Speaking	3
XXX XXX	Social Science Elective	3
SEM 201	Spartan Seminar 201	1
TOTAL HOURS REQUIRED		30

All Biology courses with the exception of BIO 459 and BIO 495 require both lecture (3 credits) and lab (1 credit).

THIRD YEAR

COURSE	COURSE TITLE	HOURS
APS 310	Applied Sciences Seminar	0
APS 311	Applied Sciences Seminar	0
BIO 272	Human Anatomy	4
BIO 362	Histology and Micro Technique	4
CHM 431	General Biochemistry I	3
CHM 431L	General Biochemistry I Lab	2
CHM 432	General Biochemistry II	3
CHM 432L	General Biochemistry II Lab	2
CSC 200	Concepts	3
PHY 160	University Physics I	4
PHY 160L	University Physics I Lab	1
PHY 161	University Physics II	4
PHY 161L	University Physics II Lab	1
TOTAL HOURS REQUIRED		31

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
APS 410	Applied Sciences Seminar	0
BIO 351	Principles of Genetics	4
BIO 364	Seminar/Colloquium	1
BIO 459	General Physiology	3
BIO 474	Molecular Biology	3
BIO 495	Biostatistics	3
APS 411	Applied Sciences Seminar	0
ENG 203	Advanced Communication Skills or ENG 303	3
XXX XXX	Humanities Elective	3
XXX XXX	Biology Elective: BIO 263 or BIO 278	4
TOTAL HOURS REQUIRED		26

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	47
Electives	6
Other Requirements	27
TOTAL DEGREE HOURS REQUIRED	120

B.S. in Chemistry(DNIMAS)

CURRICULUM

FIRST YEAR

COURSE	COURSE TITLE	HOURS
APS 110	Applied Sciences Seminar	0
APS 111	Applied Sciences Seminar	0
CHM 223A	General Chemistry I	4
CHM 221L	General Chemistry I Lab	1
CHM 224A	General Chemistry II	4
CHM 222L	General Chemistry II Lab	1
CSC 169	Introduction to Computer Science	3
CSC 200	Advanced Computer Concepts	3
ENG 101H	College English I	3
ENG 102H	College English II	3
HED 100	Personal and Community Health	2
MTH 184H	Calculus I	4
MTH 251H	Calculus II	4
PED 100	Fundamentals of Fitness for Life	1
SEM 101/102	Spartan Seminars 101 and 102	2
TOTAL HOURS REQUIRED		35

SECOND YEAR

COURSE	COURSE TITLE	HOURS
XXX XXX	Humanities or Social Science Elective	3
APS 210	Applied Sciences Seminar	0
APS 211	Applied Sciences Seminar	0
CHM 321	Organic Chemistry I	3
CHM 321L	Organic Chemistry I Lab	2
CHM 322	Organic Chemistry II	3
CHM 331	Analytical Chemistry I	3
CHM 331L	Analytical Chemistry I Lab	2
MTH 252	Calculus III	4
PHY 160	University Physics I	4
PHY 160L	University Physics I Lab	1
PHY 161	University Physics II	4
PHY 161L	University Physics II Lab	1
ENG 285H	Public Speaking	3
SEM 201	Spartan Seminar 201	1
TOTAL HOURS REQUIRED		34

THIRD YEAR

COURSE	COURSE TITLE	HOURS
APS 310	Applied Sciences Seminar	0
APS 311	Applied Sciences Seminar	0
BIO 110H	General Biology	4
CHM 323L	Synthesis and Analysis in Organic Chemistry Lab	2
CHM 332	Analytical Chemistry II	3
CHM 332L	Analytical Chemistry II Lab	2
CHM 345	Math and Logic in the Physical Sciences	3
CHM 351	Seminar or CHM 352	1
CHM 361	Physical Chemistry I	3
CHM 362	Physical Chemistry II	3
CHM 363L	Physical Chemistry Lab	2
CHM 397	Research or CHM 398	1
CHM XXX	Restricted Chemistry Elective*	3
XXX XXX	Elective	1
TOTAL HOURS REQUIRED		28

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
APS 411	Applied Sciences Seminar	0
XXX XXX	Electives	6
XXX XXX	Humanities Elective	6
XXX XXX	Restrictive Chemistry Elective*	6
XXX XXX	Social Science Seminar	3
APS 410	Applied Sciences Seminar	0
CHM 451	Seminar or CHM 452	1
CHM 473	Advanced Inorganic Chemistry	3
CHM 431	Biochemistry	3
CHM 497	Research or CHM 498	1
ENG 203	Advanced Communication Skills or ENG 303	3
TOTAL HOURS REQUIRED		32

* Select 6 hours from: CHM 397, 398, 473L, 431L, 432, 432L, 475, 481, 497, 498 (Maximum of 1 elective hour of research)

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	56
Electives	18
Other Requirements	15
TOTAL DEGREE HOURS REQUIRED	129

B.S. in Chemistry – Pre-Medicine (DNIMAS)**CURRICULUM****FIRST YEAR**

COURSE	COURSE TITLE	HOURS
APS 110	Applied Sciences Seminar	0
APS 111	Applied Sciences Seminar	0
CHM 223A	General Chemistry I	4
CHM 221L	General Chemistry I Lab	1
CHM 224A	General chemistry II	4
CHM 222L	General Chemistry II Lab	1
CSC 169	Introduction to Computer Science	3
CSC 200	Advanced Computer Concepts	3
ENG 101H	College English I	3
ENG 102H	College English II	3
HED 100	Personal and Community Health	2
MTH 184H	Calculus I	4
MTH 251H	Calculus II	4
PED 100	Fundamentals of Fitness for Life	1
SEM 101/102	Spartan Seminars 101 & 102	2
TOTAL HOURS REQUIRED		35

SECOND YEAR

COURSE	COURSE TITLE	HOURS
APS 210	Applied Sciences Seminar	0
APS 211	Applied Sciences Seminar	0
CHM 321	Organic Chemistry I	3
CHM 321L	Organic Chemistry I Lab	2
CHM 322	Organic Chemistry II	3
CHM 331	Analytical Chemistry I	3
CHM 331L	Analytical Chemistry I Lab	2
MTH 252	Calculus III	4
PHY 160	University Physics I	4
PHY 160L	University Physics I Lab	1
BIO 110H	General Biology	4
PHY 161	University Physics II	4
PHY 161L	University Physics II Lab	1
ENG 285H	Public Speaking	3
SEM 201	Spartan Seminar 201	1
TOTAL HOURS REQUIRED		35

THIRD YEAR

COURSE	COURSE TITLE	HOURS
XXX XXX	Humanities Elective	3
APS 310	Applied Sciences Seminar	0
APS 311	Applied Sciences Seminar	0
XXX XXX	Biology Elective	4
CHM 323L	Synthesis and Analysis in Organic Chemistry Lab	2
CHM 332	Analytical Chemistry II	3
CHM 332L	Analytical Chemistry II Lab	2
CHM 345	Math and Logic in the Physical Sciences	3
CHM 351	Seminar or CHM 352	1
CHM 361	Physical Chemistry I	3
CHM 362	Physical Chemistry II Lab	3
CHM 363L	Physical Chemistry Lab	2
CHM 397	Research or CHM 398	1
CHM 473	Advanced Inorganic Chemistry	3
TOTAL HOURS REQUIRED		30

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
APS 411	Applied Sciences Seminar	0
XXX XXX	Biology Electives	3
ENG 203/ ENG 303	Advanced Communication Skills	3
XXX XXX	Social Science Elective/Humanities	6
APS 410	Applied Sciences Seminar	0
CHM 431	Biochemistry I	3
CHM 431L	Biochemistry I Lab	2
CHM 432	Biochemistry II	3
CHM 432L	Biochemistry II Lab	2
CHM 451	Seminar or CHM 452	1
CHM 497	Research or CHM 498	1
TOTAL HOURS REQUIRED		24

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	54
Electives	7
Other Requirements	23
TOTAL DEGREE HOURS REQUIRED	124

B.S. in Computer Science (DNIMAS) Track**CURRICULUM****FIRST YEAR**

COURSE	COURSE TITLE	HOURS
SEM 101/102	Spartan Seminars 101/102	2
APS 110	Applied Sciences Seminar	0
APS 111	Applied Sciences Seminar	0
PHY 160A	University Physics I	4
PHY 160L	University Physics I Lab	1
PHY 161A	University Physics II	4
PHY 161L	University Physics II Lab	1
CSC 101	Introduction to the Computer Science Profession	1
CSC 170	Computer Programming I	3
CSC 170L	Computer Programming I Lab	1
MTH 184H	Calculus I	4
MTH 251H	Calculus II	4
CSC 260	Computer Programming II	3
CSC 260L	Computer Programming II Lab	1
XXX XXX	Social Science Elective ¹	3
TOTAL HOURS REQUIRED		32

¹ HIS 101; HIS 103; BUS 175; ECN 200; SOC 101

SECOND YEAR

COURSE	COURSE TITLE	HOURS
APS 211	Applied Sciences Seminar	0
APS 210	Applied Sciences Seminar	0
CSC 268	Computer Organization	3
SEM 201	Spartan Seminar 201	1
CSC 295	Java Applications Programming	3
MTH 252H	Calculus III	4
MTH 371	Discrete Mathematical Structures	4
CHM 221	General Chemistry I	3
CHM 221L	General Chemistry I Lab	1
CSC 275	Foundations of Cybersecurity	3
ENG 101H	College English I	3
ENG 102H	College English II	3
TOTAL HOURS REQUIRED		28

THIRD YEAR

COURSE	COURSE TITLE	HOURS
CSC 292	UNIX and C Programming	3
XXX XXX	Foreign Language Elective	3
HED 100	Personal and Community Health	2
PED 100	Fundamental of Fitness for Life	1
APS 310	Applied Sciences Seminar	0
APS 311	Applied Sciences Seminar	0
CSC 372	Data Structures	3
CSC 361	Survey of Programming Language	3
CSC 380	Software Engineering	3
ENG 303	Technical Writing	3
ENG 285H	Public Speaking	3
MTH 351	Probability and Statistics I	3
XXX XXX	Free Elective	2
TOTAL HOURS REQUIRED		29

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
APS 411	Applied Sciences Seminar	0
XXX XXX	CSC or Math Electives (300 Level or Above)	6
XXX XXX	Social Science Cultural Elective	3
XXX XXX	Computer Science Elective (300 Level or Above)	6
XXX XXX	Humanities Cultural Elective	3
CSC 430	Data Communication	3
CSC 464	Operating Systems	3
CSC 468	Computer Architecture	3
CSC 498	Computer Science Seminar	2
CSC 499	Computer Science Seminar	2
TOTAL HOURS REQUIRED		31

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	53
Electives	27
Other Requirements	0
TOTAL DEGREE HOURS REQUIRED	120

B.S. in Computer Science – (DNIMAS) Computer Engineering Track**CURRICULUM****FIRST YEAR**

COURSE	COURSE TITLE	HOURS
APS 110	Applied Sciences Seminar	0
APS 111	Applied Sciences Seminar	0
SEM 101/102	Spartan Seminars 101 and 102	2
PHY 160A	University Physics I	4
PHY 160L	University Physics I Lab	1
PHY 161A	University Physics II	4
PHY 161L	University Physics II Lab	1
CSC 101	Introduction to the Computer Science Profession	1
CSC 170	Computer Programming I	3
CSC 170L	Computer Programming I Lab	1
MTH 184H	Calculus I	4
MTH 251H	Calculus II	4
CSC 260	Computer Programming II	3
CSC 260L	Computer Programming II Lab	1
XXX XXX	Social Science Elective	3
TOTAL HOURS REQUIRED		32

SECOND YEAR

COURSE	COURSE TITLE	HOUR
APS 210	Applied Science Seminar	0
APS 211	EES Seminar Applied Science Seminar	0
SEM 201	Spartan Seminar 201	1
CSC 268	Computer Organization	3
CSC 295	Java Application Programming	3
MTH 252H	Calculus III	4
MTH 371	Discrete Math. Structures	4
CSC 275	Fundamentals of Cybersecurity	3
CHM 222	Gen. Chemistry II	3
CHM 222L	Gen. Chemistry II Lab	1
ENG 101H	College English I	3
ENG 102H	College English II	3
TOTAL HOURS REQUIRED		28

THIRD YEAR

COURSE	COURSE TITLE	HOURS
APS 310	Applied Sciences Seminar	0
APS 311	Applied Sciences Seminar	0
EEE 201	Electronic Network Theory I	3
EEE 201L	Electronic Network Theory I Lab	1
EEE 203	Electronic Principles	3
MTH 351	Probability and Statistics I	3
MTH 372	Differential Equations	3
ENG 285H	Public Speaking	3
CSC 292	UNIX and C Programming	3
CSC 361	Survey of Programming Languages	3
CSC 372	Data Structures	3
CSC 380	Software Engineering	3
HED 100	Personal & Community Health	2
PED 100	Fundamental of Fitness for Life	1
TOTAL HOURS REQUIRED		31

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
APS 410	Applied Sciences Seminar	0
APS 411	Applied Sciences Seminar	0
CSC 430	Data Communications	3
CSC 464	Operating Systems	3
CSC 468	Computer Architecture	3
CSC 498	Computer Seminar I	2
CSC 499	Computer Seminar II	2
EEN 231	Digital Electronics Logic Design	3
ENG 303	Technical Writing	3
EEE 331	Microprocessors and Lab	4
EEE 331L		
XXX XXX	Foreign Language Elective	3
XXX XXX	Computer Science Elective (300 Level or Above)	3
XXX XXX	Humanities Cultural Elective	3
XXX XXX	Social Science Cultural Elective	3
TOTAL HOURS REQUIRED		35

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	69
Electives	17
TOTAL DEGREE HOURS REQUIRED	126

B.S. IN Computer Science – CyberSecurity Track (DNIMAS)**CURRICULUM****FIRST YEAR**

COURSE	COURSE TITLE	HOURS
APS 110	Applied Sciences Seminar	0
APS 111	Applied Sciences Seminar	0
SEM 101/102	Spartan Seminars 101 & 102	2
PHY 160A	University Physics I	4
PHY 160L	University Physics I Lab	1
PHY 161A	University Physics II	4
PHY 161L	University Physics II Lab	1
CSC 101	Introduction to the Computer Science Profession	1
CSC 170	Computer Programming I	3
CSC 170L	Computer Programming I Lab	1
MTH 184H	Calculus I	4
MTH 251H	Calculus II	4
CSC 260	Computer Programming II	3
CSC 260L	Computer Programming II Lab	1
XXX XXX	Social Science Elective ¹	3
TOTAL HOURS REQUIRED		32

SECOND YEAR

COURSE	COURSE TITLE	HOUR
APS 210	Applied Science Seminar	0
APS 211	Applied Science Seminar	0
SEM 201	Spartan Seminar 201	1
CSC 268	Computer Organization	3
CSC 295	Java Applications Programming	3
CSC 275	Fundamentals of Cybersecurity	3
MTH 252H	Calculus III	4
MTH 371	Discrete Math. Structure	4
CHM 221	Gen. Chemistry I	3
CHM 221L	Gen. Chemistry I Lab	1
XXX XXX	Computer Science Elective, 300-Level or Above	3
ENG 101H	College English I	3
ENG 102H	College English II	3
TOTAL HOURS REQUIRED		31

¹ HIS 101; HIS 103; BUS 175; ECN 200; SOC 101**THIRD YEAR**

COURSE	COURSE TITLE	HOURS
CSC 292	UNIX and C Programming	3
XXX XXX	Foreign Language Elective	3
HED 100	Personal and Community Health	2
PED 100	Fundamental of Fitness for Life	1
APS 310	Applied Sciences Seminar	0
APS 311	Applied Sciences Seminar	0
CSC 372	Data Structures	3
CSC 361	Survey of Programming Language	3
CSC 380	Software Engineering	3
ENG 303	Technical Writing	3
ENG 285H	Public Speaking	3
MTH 351	Probability and Statistics I	3
XXX XXX	Free Elective	2
TOTAL HOURS REQUIRED		29

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
APS 411	Applied Sciences Seminar	0
CSC 313	Network Administration	3
XXX XXX	Social Science Cultural Elective ³	3
CSC 494	Digital Forensics	3
XXX XXX	Humanities Cultural Elective ²	3
CSC 430	Data Communication	3
CSC 464	Operating Systems	3
CSC 468	Computer Architecture	3
CSC 498	Computer Science Seminar	2
CSC 449	Cryptography & Network Security	3
XXX XXX	Free Elective	2
TOTAL HOURS REQUIRED		28

² ENG 383; MUS 234³ HIS 335; HIS 336; HIS 371; HRP 320**SUMMARY OF GRADUATION REQUIREMENTS**

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	65
Electives	15
Other Requirements	0
TOTAL DEGREE HOURS REQUIRED	120

B.S. in Applied Mathematics (DNIMAS)**CURRICULUM****FIRST YEAR**

COURSE	COURSE TITLE	HOURS
APS 110	Applied Sciences Seminar	0
APS 111	Applied Sciences Seminar	0
CHM 221L	General Chemistry I Lab	1
CHM 222L	General Chemistry II Lab	1
CHM 223A	General Chemistry I	4
CHM 224A	General Chemistry II	4
CSC 169	Introduction to Computer Science	3
CSC 200	Advanced Computer Concepts	3
ENG 101H	College English I	3
ENG 102H	College English II	3
HED 100	Personal and Community Health	2
MTH 184H	Calculus I	4
MTH 251H	Calculus II	4
PED 100	Fundamentals of Fitness for Life	1
SEM 101/102	Spartan Seminars 101 and 102	2
TOTAL HOURS REQUIRED		35

SECOND YEAR

COURSE	COURSE TITLE	HOURS
APS 210	Applied Sciences Seminar	0
APS 211	Applied Sciences Seminar	0
MTH 252H	Calculus III	4
MTH 300	Linear Algebra	3
MTH 372	Differential Equations	3
MTH 384	Math Modeling and Simulation	3
PHY 160	University Physics I	4
PHY 160L	University Physics I Lab	1
PHY 161	University Physics II	4
PHY 161L	University Physics II Lab	1
XXX XXX	Foreign Language Electives	6
XXX XXX	Free Electives	3
SEM 201	Spartan Seminar 201	1
TOTAL HOURS REQUIRED		33

THIRD YEAR

COURSE	COURSE TITLE	HOURS
APS 310	Applied Sciences Seminar	0
APS 311	Applied Sciences Seminar	0
ENG 303	Technical Writing	3
MTH 351	Probability and Statistics I	3
MTH 352	Probability and Statistics II	3
MTH 471	Advanced Calculus I	3
MTH 472	Advanced Calculus II	3
ENG 285H	Public Speaking	3
XXX XXX	Mathematics Elective (MTH 311 or Higher)	3
XXX XXX	Mathematics Elective (MTH 431 or Higher)	3
XXX XXX	Social Sciences Elective	3
TOTAL HOURS REQUIRED		27

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
APS 410	Applied Sciences Seminar	0
APS 411	Applied Sciences Seminar	0
MTH 382	Introduction to Applied Mathematics	3
MTH 401	Numerical Analysis I	3
MTH 402	Numerical Analysis II	3
MTH 484	Topics in Applied Mathematics	3
MTH 496	Mathematics Seminar	2
MTH 497	Mathematics Seminar	2
XXX XXX	Free Electives	3
XXX XXX	Mathematics Electives (MTH 431 or Higher)	6
XXX XXX	Social Science Elective	3
TOTAL HOURS REQUIRED		28

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	65
Electives	15
Other Requirements	0
TOTAL DEGREE HOURS REQUIRED	120

B.S. in Electrical and Electronics Engineering (DNIMAS)**CURRICULUM****FIRST YEAR**

COURSE	COURSE TITLE	HOURS
APS 110	Applied Sciences Seminar	0
APS 111	Applied Sciences Seminar	0
EEE 100	Introduction to Engineering	3
EEE 102	Engineering Use of Computers	3
ENG 101H	College English I	3
ENG 102H	College English II	3
MTH 184H	Calculus I	4
MTH 251H	Calculus II	4
PED 100	Fundamentals of Fitness for	1
PHY 160	University Physics I	4
PHY 160L	University Physics I Lab	1
PHY 161	University Physics II	4
PHY 161L	University Physics II Lab	1
SEM 101/102	Spartan Seminars 101 and 102	2
TOTAL HOURS REQUIRED		33

SECOND YEAR

COURSE	COURSE TITLE	HOURS
APS 210	Applied Sciences Seminar	0
APS 211	Applied Sciences Seminar	0
CHM 221L	General Chemistry Lab	1
CHM 223A	General Chemistry	4
EEE 201	Electronic Network Theory I	3
EEE 201L	Electronic Network Theory I Lab	1
EEE 202	Electronic Network Theory II	3
EEE 202L	Electronic Network Theory II Lab	1
EEE 211	Materials Science & Engineering	3
EEE 231	Digital Logic Design	3
HED 100	Personal and Community Health	2
MTH 252	Calculus III	4
MTH 372	Differential Equations	3
ENG 285H	Public Speaking	3
XXX XXX	Humanities Elective	3
SEM 201	Spartan Seminar 201	1
TOTAL HOURS REQUIRED		35

The Technical Elective may be chosen from 300 level or above courses in math, computer science, chemistry, physics or engineering.

THIRD YEAR

COURSE	COURSE TITLE	HOUR
APS 310	Applied Sciences Seminar	0
APS 311	Applied Sciences Seminar	0
EEE 301	Engineering Electronics I	3
EEE 301L	Engineering Electronics I Lab	1
EEE 302	Engineering Electronics II	3
EEE 302L	Engineering Electronics II Lab	1
EEE 305	Signals and Systems	3
EEE 321	Electromagnetic Field Theory	3
EEE 331	Microprocessors	3
EEE 331L	Microprocessors Lab	1
EEE 333	Digital Integrated Circuits	3
EEE 333L	Digital Integrated Circuits Lab	1
EEE 351	Communications Engineering	3
MTH 300	Linear Algebra	3
MTH 351E	Probability and Statistics I	3
XXX XXX	Humanities Elective	3
TOTAL HOURS REQUIRED		34

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
APS 410	Applied Sciences Seminar	0
APS 411	Applied Sciences Seminar	0
EEE 401	Electronics Engineering Seminar	1
EEE 311	Engineering Economics	3
EEE 471	Control Systems	3
EEE 498	Senior Project I	3
EEE 499	Senior Project II	3
XXX XXX	Cultural Elective	3
XXX XXX	Engineering Elective	3
XXX XXX	Social Sciences Elective	6
XXX XXX	Technical Elective	3
XXX XXX	Unrestrictive Elective	3
TOTAL HOURS REQUIRED		31

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	54
Electives	24
Other Requirements	15
TOTAL DEGREE HOURS REQUIRED	120

B.S. in Optical Engineering (DNIMAS)**CURRICULUM****FIRST YEAR**

COURSE	COURSE TITLE	HOURS
APS 110	Applied Sciences Seminar	0
APS 111	Applied Sciences Seminar	0
EEE 100	Introduction to Engineering	3
EEE 102	Engineering Use of Computers	3
ENG 101H	College English I	3
ENG 102H	College English II	3
MTH 184H	Calculus I	4
MTH 251H	Calculus II	4
PED 100	Fundamentals of Fitness for Life	1
PHY 160	University Physics I	4
PHY 160L	University Physics I Lab	1
PHY 161	University Physics II University	4
PHY 161L	Physics II Lab	1
SEM 101/102	Spartan Seminars 101 and 102	2
TOTAL HOURS REQUIRED		33

SECOND YEAR

COURSE	COURSE TITLE	HOURS
APS 210	Applied Sciences Seminar	0
APS 211	Applied Sciences Seminar	0
CHM 221L	General Chemistry Lab	1
CHM 223A	General Chemistry	4
EEN 201	Electrical Network Theory I	3
EEE 201L	Electrical Network Theory I Lab	1
EEE 203	Electronic Principles	3
EEE 211	Materials Science and Engineering	3
HED 100	Personal and Community Health	2
MTH 252	Calculus III	4
MTH 372	Differential Equations	3
OEN 200	Geometrics and Instrumentation Optics	3
	Geometrics and Instrumentation Optics Lab	1
OEN 200L	Physical and Instrumentation Optics	3
OEN 201	Physical and Instrumentation Optics Lab	1
OEN 201L	Optics Lab	3
ENG 285H	Public Speaking	1
SEM 201	Spartan Seminar 201	1
TOTAL HOURS REQUIRED		36

The Technical Elective may be chosen from 300 level or above courses in math, computer science, chemistry, physics or engineering.

THIRD YEAR

COURSE	COURSE TITLE	HOURS
APS 310	Applied Sciences Seminar	0
APS 311	Applied Sciences Seminar	0
EEE 321	Electromagnetic Field Theory	3
MTH 300	Linear Algebra	3
MTH 351E	Probability and Statistics I	3
OEN 320	Optical Systems Analysis	3
OEN 340	Lasers and Photonics	3
OEN 340L	Lasers and Photonics Lab	1
OEN 360	Introduction to Optical Materials	3
OEN 380	Introduction to Quantum Optics	3
XXX XXX	Cultural Elective	3
XXX XXX	Humanities Elective	3
XXX XXX	Social Sciences Elective	3
TOTAL HOURS REQUIRED		31

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
APS 410	Applied Sciences Seminar	0
APS 411	Applied Sciences Seminar	0
EEE 311	Engineering Economics	3
OEN 460	Optical Communications I	3
OEN 460L	Optical Communications I Lab	1
OEN 461	Optical Communications II	3
OEN 461L	Optical Communications II Lab	1
OEN 490	Senior Seminar	1
OEN 498	Senior Project I	3
OEN 499	Senior Project II	3
XXX XXX	Engineering Elective	3
XXX XXX	Humanities Elective	3
XXX XXX	Social Sciences Elective	3
XXX XXX	Technical Elective	3
XXX XXX	Unrestrictive Elective	3
TOTAL HOURS REQUIRED		33

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	54
Electives	24
Other Requirements	15
TOTAL DEGREE HOURS REQUIRED	133

B.S. in Physics (DNIMAS)**CURRICULUM****FIRST YEAR**

COURSE	COURSE TITLE	HOURS
APS 110	Applied Sciences Seminar	0
APS 111	Applied Sciences Seminar	0
ENG 101H	College English I	3
ENG 102H	College English II	3
HED 100	Personal and Community Health	2
MTH 184H	Calculus I	4
MTH 251H	Calculus II	4
PED 100	Fundamentals of Fitness for Life	1
PHY 160	University Physics I	4
PHY 160L	University Physics I Lab	1
PHY 161	University Physics II	4
PHY 161L	University Physics II Lab	1
SEM 101/102	Spartan Seminars 101 and 102	2
TOTAL HOURS REQUIRED		29

THIRD YEAR

COURSE	COURSE TITLE	HOURS
APS 310/311	Applied Sciences Seminar	0
PHY 351	Exp. Concepts in Modern Physics	1
CHM 221L	General Chemistry I Lab	1
CHM 222L	General Chemistry II Lab	1
CHM 223A	General Chemistry I	4
CHM 224A	General Chemistry II	4
PHY 365	Mechanics I	3
PHY 366	Mechanics II	3
PHY 375	Electricity and Magnetism I	3
PHY 380	Quantum Mechanics I	3
PHY 399	Advanced Lab	2
PHY 445	Math Methods for Physical Science II	3
XXX XXX	Social Science Elective	3
TOTAL HOURS REQUIRED		31

SECOND YEAR

COURSE	COURSE TITLE	HOURS
APS	Applied Sciences Seminar	0
APS	Applied Sciences Seminar	0
CSC 170	Computer Programming I	3
ENG 299	Writing Competency Exam	0
MTH 252	Calculus III	4
MTH 372	Differential Equations	3
PHY 241	Physics Seminar	1
PHY 260	University Physics III	4
PHY 345	Math Methods in Physical Science I	3
PHY 350	Modern Physics	3
PHY 351	Experimental Concepts in Modern Physics	1
ENG 285H	Public Speaking	3
XXX XXX	Humanities Elective	3
XXX XXX	Computer Science Elective	3
SEM 201	Spartan Seminar 201	1
TOTAL HOURS REQUIRED		31

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
APS 410	Applied Sciences Seminar	0
APS 411	Applied Sciences Seminar	0
PHY 356	Thermodynamics	3
PHY 468	Optics	3
PHY 475	Electricity and Magnetism II	3
PHY 480	Quantum Mechanics II	3
PHY 498	Senior Project I	1
PHY 499	Senior Project II	2
XXX XXX	Free Electives	6
XXX XXX	Cultural Elective	6
TOTAL HOURS REQUIRED		29

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	39
Electives	6
Other Requirements	35
TOTAL DEGREE HOURS REQUIRED	120

ARMYSCIENCE

Cedric G. Lee, (P), US Army
Professor and Chair of Military Science
Army Reserve Officer Training Corps (AROTC)
(757) 823-8291

PROGRAM OVERVIEW

The Army Reserve Officer Training Corps (ROTC) is a leadership development program that prepares qualified students to serve as Army Officers in the Active Duty Army, Army Reserve and National Guard. Once a student completes the requirements of the Army ROTC program, as well as the requirements for their academic major, they are commissioned as Second Lieutenants in the United States Army. The program consists of two phases of instruction, the Basic Course and the Advanced Course.

THE BASIC COURSE

The Basic Course consists of MSL 101, 102, 201, and 202 as well as co-requisite Leadership Labs for each course. The Basic Course is normally taken by students during their freshman and sophomore years of college. Areas of emphasis include familiarization with the Army's mission, branches, rank structure, and customs, as well as leadership and management skills such as communication, time management, problem solving, goal setting, team building, and physical fitness. The Basic Course requirements can take the place of several general education requirements (see chart) as well as free electives.

NS ^U COURSE	AROTC SUBSTITUTIONS COURSE
HED 100	MSL 101 OR MSL 102
HIS 100, 101, 102,	HIS 380
PED 100	MSL 201 or MSL 202

Students who enroll in the Basic Course do not incur a Military Service Obligation unless they apply for and are awarded an Army ROTC scholarship.

THE ADVANCED COURSE

The Advanced Course consists of MSL 301, 302, 401, and 402 as well as co-requisite Leadership Labs for each course. Students who are enrolled in the Army ROTC Advanced Course are also required to take HIS 380 - Military History.

Advanced Course students also participate in a 30 day training event at Ft. Knox, KY during the summer between MSL 302 and MSL 401. The Advanced Course is normally taken by students during their junior and senior years of college or as a graduate student. Areas of emphasis include critical thinking, small-unit leadership, map reading and land navigation, advanced communication skills, cultural awareness, planning, and ethics.

Students must complete the Basic Course (or receive credit for prior military service or JROTC participation) and meet all the requirements to contract in order to enroll in the Advanced Course.

ENROLLMENT REQUIREMENTS

To enroll in the Army ROTC program, a student must:

1. Be a full time student at Norfolk State University.
2. Be a citizen of the United States.
3. Be of good moral character.
4. Not be a conscientious objector.
5. Be physically healthy enough to participate in a normal college physical education course.

For more information about the Army ROTC program, including eligibility, requirements, benefits, scholarship opportunities, please contact the Recruiting and Enrollment Officer at 757-823-9296 or goldbar@nsu.edu.

B.A. in History -- Military Science (ARMY)**CURRICULUM**

For the History-Military Science (Army) Sequence, thirty-six (36) hours in History are required, of which twenty-one (21) hours must be at the 300 or 400 level, with a minimum of six credit hours of non-Western history. Twenty-six (26) credit hours in Military Science are required. Juniors may receive four semester hours credit for leadership development assessment course, but these credits will not be a part of scheduling.

FIRST YEAR

COURSE	COURSE TITLE	HOURS
SEM 101/102	Spartan Seminars 101 and 102	2
BIO 100	Biological Science	3
BIO 100L	Biological Science Lab	1
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
HIS 102	United States History to 1865	3
HIS 103	United States History 1865 to the Present	3
MTH 103	Mathematics in General Education	3
MSL 101	Leadership/ Management	2
MSL 102	Leadership/ Management	2
MSL 101D OR 102D	Basic Drill and Ceremonies	1
SCI 101	Physical Science	3
TOTAL HOURS REQUIRED		31

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
HIS 205	Introduction to History	3
FL 111	Foreign Language	3
FL 112	Foreign Language	3
HIS 100	History of World Societies, Part 1	3
HIS 101	History of World Societies, Part 2	3
POS 100	American Government	3
MLS 201	Applied Leadership/Management	2
MLS 202	Applied Leadership/Management	2
MSL 201D OR 202D	Drill and Ceremonies	1
ENG XXX	ENG 286 or ENG 203 or ENG 303 Advanced Composition	3
CSC 200	Advanced Computer Concepts	3
TOTAL HOURS REQUIRED		29

THIRD YEAR

COURSE	COURSE TITLE	HOURS
HIS 305	3 Rs of History	3
HIS 380	American Military History	3
HIS 3XX HIS 4XX	History Electives (300-400 level, Non-Western)	6
GEO 130	Principles of Geography	3
MSL 101	Advanced Leadership/ Management	3
MSL 102	Advanced Leadership/ Management	3
ENG 285	Public Speaking	3
HIS 3XX	African American History (HIS 335 or 336)	3
ENG 207	World Literature	3
TOTAL HOURS REQUIRED		30

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
HIS 497	Historical Research	3
HIS 439	Recent American History from 1932 to Present	3
GEO XXX	Geography Elective (300-400 level)	3
HIS 3XX	African History and Culture (HIS 370 or 371)	3
POS 360	International Politics	3
HIS XXX	History Electives (300-400 level)	6
MSL 401	Theory/ Dynamics of Military Team	3
MSL 402	Theory/ Dynamics of Military Team	3
MSL 401D	Drill and Ceremonies	1
MSL 402D	Drill and Ceremonies	1
TOTAL HOURS REQUIRED		29

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	54
Electives	0
Other Requirements	26
TOTAL DEGREE HOURS REQUIRED	120

NAVAL SCIENCE

LT Jesse L. Gandy
Naval Reserve Officer Training Corps
(757) 823-8848

Recruiter email: hrnrotc-recruiter@odu.edu or
jlgandy@nsu.edu

The primary mission of the Department of Naval Science is to provide professional and leadership instruction to students who desire to serve as commissioned officers in the United States Navy or Marine Corps. Participation in the NROTC Program is voluntary, and any student who meets the qualifications is eligible to participate.

The NROTC Program consists of two courses of instruction: the four-year program and the two-year program. Both apply to scholarship and non-scholarship (college program) students.

The four-year program is divided into a two-year basic course and a two-year advanced course. The basic course (NSC 101, 102, 201, 202 and accompanying naval laboratory sessions) is normally pursued by NROTC midshipmen during their freshman and sophomore years. While most freshmen begin the basic course during the fall semester, it is possible to enter the program at the beginning of the spring semester. The advanced course (NSC 301, 302, 401, 402 and accompanying naval laboratory sessions) is normally pursued during the junior and senior years. Students seeking a commission in the Marine Corps or Marine Corps Reserve substitute NSC 310, 410, and two approved elective courses for NSC 301, 302, 401, and 402.

Scholarship recipients supplement classroom instruction with at-sea training the summer between their junior and senior years. Similarly, Marine Corps option students attend the six-week Marine Officer Candidate School in Quantico, Virginia, the summer between their junior and senior years.

The two-year NROTC Program (when offered) is extended to students who do not participate in NROTC during their freshman and sophomore years and who meet the program requirements. Applications to join must be submitted early in the spring semester of the sophomore year. For students accepted into this program, a six-week summer training period at the Naval Science Institute (NSI) in Newport, Rhode Island, following their sophomore year, replaces the Basic course segment of the four-year program. Students successfully completing summer training enroll in the Advanced course for their junior and senior years.

REQUIREMENTS FOR FORMAL ENROLLMENT IN NROTC

1. Be a citizen of the United States.
2. Be physically qualified under standards prescribed by the Department of the Navy.
3. Be accepted by the University as a full-time enrolled student or enrolled at Tidewater Community College.
4. Be at least 17 years of age and not have reached 27 years of age by 30 June of the year you graduate. (Scholarship)
5. Be at least 17 years of age and not have reached 27 years of age by 30 June of the year you graduate. (College Program)
6. Possess a satisfactory record of moral integrity, maintain high standards of performance in academic and extracurricular activities, and manifest potential officer characteristics.
7. Have no moral obligation or personal convictions that prevent you from conscientiously bearing arms and supporting and defending the Constitution of the United States against all enemies, foreign and domestic.

PARTICIPATION REQUIREMENTS

Students enrolling in the Basic course of instruction during their freshman year incur no military obligation. Those in the Advanced course must agree to serve a specific active duty period.

All College Program students may compete for three and two-year NROTC scholarships. NROTC scholarships pay for tuition, books, laboratory fees, and other required fees, except room and board. Additionally, scholarship students receive a monthly stipend of \$250-\$400 (tax free). For specific information and requirements, contact the Department of Naval Science (camartin@nsu.edu).

Advanced course students in the College Program (non-scholarship) are entitled to subsistence pay at the rate of \$350 JR and \$400 SR per month for each month of the school year, not to exceed 20 months maximum. While engaged in summer cruise training, all students receive one half of the basic pay of an Ensign.

Nursing program students participate in NROTC drill labs, classes as indicated below, and summer training. Those who complete the nursing program and naval science requirements are commissioned as Ensigns in the Navy Nurse Corps.

Naval Reserve Officers Training Corp (NROTC)

This Department does not offer a major course program

CURRICULUM

FIRST YEAR

Naval Laboratory I

COURSE	COURSE TITLE	HOURS
NSC 101*	Naval Orientation	1
NSC 102*	Seapower and Maritime Affairs/ HIS 380	3
NSC 111	Naval Laboratory II	1
TOTAL HOURS REQUIRED		7

THIRD YEAR

COURSE	COURSE TITLE	HOURS
NSC 301	Navigation and Naval Operations I	3
NSC 302	Navigation and Naval Operations II	3
NSC 310	Evolution of Warfare (Marine Option Only)	3
NSC 311	Naval Laboratory V	1
NSC 312	Naval Laboratory VI	1
TOTAL HOURS REQUIRED		11

SECOND YEAR

COURSE	COURSE TITLE	HOURS
NSC 201	Naval Ship Systems I (Engineering)	3
NSC 202	Naval Ship Systems II (Weapons)	3
NSC 211	Naval Laboratory III	1
NSC 212	Naval Laboratory IV	1
TOTAL HOURS REQUIRED		8

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
NSC 401*	Leadership and Management	3
NSC 402*	Leadership and Ethics	3
NSC 410	Amphibious Warfare (Marine Option Only)	3
NSC 411	Naval Laboratory VII	1
TOTAL HOURS REQUIRED		11

* Indicates courses required for NROTC nursing college program and scholarship students.

SCHOOL OF SOCIAL WORK

Dr. Elizabeth Dungee-Anderson, Dean

(757) 823 - 2694

Mrs. Carrie Waites, Associate Dean

(757) 823-8270

The Ethelyn R. Strong School of Social Work at Norfolk State University was established in 1960 with the founding of the Baccalaureate Social Work (BSW) program. It's Master of Social Work (MSW) degree and Doctor of Philosophy in Social Work (Ph.D.) degree programs were added in 1974, and 1995, respectively. Thus, the School, along with its Continuing Education Program, offers the full continuum of social work education.

The School's mission is to provide social work education programs which prepare students with competence to develop and deliver services which strengthen and/or empower individuals, families, and communities. The School and its programs emphasize the values of social justice, social responsibility, and respect of human rights, dignity, and diversity. The School is especially committed to address the strengths and challenges for an ethnically and culturally diverse client population in an evolving global community.

ACCREDITATION

The School of Social Work's Baccalaureate of Social Work and Master of Social Work Programs are accredited by the Council on Social Work Education (CSWE).

ORGANIZATION OF THE SCHOOL

The School is administered by the Dean. The Associate Dean is responsible for administrative matters. The B.S.W. Program Director is responsible for the B.S.W. Program. The M.S.W. Program Director is responsible for the M.S.W. Program Curriculum. The Director of the Ph.D. Program is responsible for the Ph.D. Program.

ADMISSION REQUIREMENTS

B.S.W. applicants must meet University requirements for admission. After successfully completing the first two years of pre-social work course requirements, students may apply to the Professional Program for the B.S.W. degree. This is the official application process for admission to the professional phase of the Social Work Program. Professional Program requirements are:

1. Student must have completed the first two years of basic core requirements and pre-social work requirements. Student must have a minimum cumulative grade point average of 2.0 on the 4.0 scale (an overall average of C or better).
2. Student must complete and submit all Professional Program application materials to the Director of the Baccalaureate Social Work Program.
3. Student must complete or be enrolled in ENG 299.
4. Continued matriculation at the professional level of the Baccalaureate Program requires that the student:
 - a) Maintain an overall G.P.A. of 2.0 or better.
 - b) Maintain an average of 2.5 G.P.A. in major courses.
 - c) Must have earned a grade of C or better in designated courses as enumerated in the Social Work curriculum.
 - d) Complete degree requirements in accordance with the University Catalog and School of Social Work Field Manual.

BACCALAUREATE SOCIAL WORK

Dr. Kirsten S. Ericksen
Baccalaureate Program Director
(757) 823 - 8296

The Baccalaureate Social Work (B.S.W.) Program comprises two phases: Pre-Social Work Education and Professional Social Work Education. The professional social work phase begins in the junior year and combines academic course work and field practicum. The baccalaureate social work (B.S.W.) degree is conferred on undergraduates who complete all of the academic requirements of the program and of Norfolk State University. This degree is recognized as the first professional level of social work practice. Certain criteria are, therefore, established for admission to and continued matriculation in the professional program.

B.S.W. PROGRAM MISSION

The Baccalaureate Social Work Program develops students capable of delivering social work services at the first professional level of practice using a generalist approach that reflects multi-level systems. The program emphasizes social justice and responsibility, and respect for human rights, dignity, and diversity.

GOALS

The goals of the B.S.W. Program are:

1. To prepare the student for employment as a beginning professional social work practitioner utilizing a generalist approach.
2. To prepare the student to work differentially with diverse populations with a special commitment to the affirmation of the unique diversity of ethnically and culturally diverse populations.
3. To teach students to competently develop and deliver direct services that strengthen and/or empower individuals, families, groups, organizations, and communities.
4. To develop mastery of the core competencies as explicated in the Educational Policy and Accreditation Standards 2008, Council on social work Education, at the beginning professional level.

Baccalaureate Program in Social Work

BACHELOR OF SOCIAL WORK DEGREE CURRICULUM

PRE-SOCIAL WORK REQUIREMENTS FIRST YEAR

FIRST YEAR

COURSE	COURSE TITLE	HOURS
SEM 101/102	Spartan Seminars 101 and 102	2
BIO 105/ BIO 105L	Human Biology and Lab	4
CSC 150	Computer Literacy ***	3
ENG 101	College English I***	3
ENG 102	College English II***	3
HED 100	Personal and Community Health	2
MTH 103	Contemporary Mathematics	3
PED 100	Fundamentals of Fitness for Life	1
HIS 100	History of World Societies or HIS 101 or HIS 102 or HIS 103	3
PSY 210	Introduction to Psychology ***	3
SOC 101	Introduction to Social Sciences	3
XXX XXX	Restrictive Elective *	2
TOTAL HOURS REQUIRED		32

SECOND YEAR

COURSE	COURSE TITLE	HOURS
SEM 201	Spartan Seminar 201	1
ECN 200	Basic Principles of Economics	3
HUM 210	Humanities **	3
POS 231	American State and Local Government or POS 100, American National Government***	3
PSY 280	Abnormal Psychology ***	3
ENG 285	Public Speaking	3
SWK 200	Introduction to Social	3
SWK 207	Social Welfare Policies and Services I	3
SWK 220	Human Behavior and Social Environment I	3
SCI 101	Introduction to Physical Science for Non-Science Majors	3
XXX XXX	Optional Elective	3
TOTAL HOURS REQUIRED		31

* Logic, Philosophy, Problem Solving Cluster (i.e. SOC 230, Social Problems)

** FIA 201, Basic Art Appreciation or MUS 301, Music Appreciation, ENG 207, Introduction to World Literature

*** Minimum Grade of C required in all Social Work courses and those with *** beside them

**** Cultural Perspective (Select one) – HIS 335, HIS 336, HIS 370, HIS 371, JRN 299, PSY 340, SOC 237, POS 315;

Cultural Perspective (Humanities) – ENG 383, FIA 370, MUS 234

***** Social Work Elective (Restrictive-Advanced Policy) SELECT

ONE: SWK 411 OR SWK-497

***** Restrictive Elective (Natural Sciences) – PHY 100, SCI 100, Astronomy, Geology, Oceanography, Meteorology

PROFESSIONAL SOCIAL WORK CURRICULUM

PROFESSIONAL SOCIAL WORK REQUIREMENTS

THIRD YEAR

COURSE	COURSE TITLE	HOURS
SOC 331	Social Psychology or PSY 250	3
SOC 333	Methods of Social Work Research ***	3
SOC 355	Elementary Social Statistics ***	3
SWK 300	Social Welfare Policies and Services II	3
SWK 309	Human Behavior and Social Environment II Introduction to Generalist Practice	3
SWK 312	Generalist Practice: Individuals and Families	3
SWK 313	Human Behavior and Social Environment III	3
SWK 319	Social Work Elective	3
SWK XXX	Cultural Perspective (Social Sciences) ****	3
XXX XXX		
TOTAL HOURS REQUIRED		30

FOURTH YEAR

COURSE	COURSE TITLE	HOURS
SWK 318	Generalist Practice: Groups, Organizations and Communities	3
SWK 416	Generalist Practice: Evaluation	3
SWK 490	Practicum Seminar I	1
SWK 491	Practicum Seminar II	1
SWK 495	Practicum in Social Work I	5
SWK 496	Practicum in Social Work II	5
SWK 498A	B.S.W. Field Practicum Orientation I	0
SWK 498B	B.S.W. Field Practicum Orientation II	0
SWK XXX	Social Work Elective (Restricted – Advanced Policy)*****	3
SWK XXX	Social Work Elective	3
HUM XXX	Cultural Perspectives **** Humanities	3
TOTAL HOURS REQUIRED		27

SUMMARY OF GRADUATION REQUIREMENTS

SUBJECT AREA	HOURS
General Education Core	40
Major Requirements	51
Other Requirements	29
TOTAL DEGREE HOURS REQUIRED	120

COURSE DESCRIPTIONS

Course descriptions are notated with the following abbreviations and are listed on the following pages in alphabetical order.

SUBJECT (CODES)
Accounting (ACC)
Arabic (ARA)
Astronomy (AST)
Biology (BIO)
Building Construction Technology (BCT)
Business Administration (BUS)
Chemistry (CHM) Chinese (CHI)
Communication Sciences and Disorders (CSD)
Computer Information Technology (CIT)
Computer Science (CSC)
Cooperative Education (CED)
Criminal Justice (CJS)
Decision Sciences (DSC)
Design Technology Mechanical (TMD)
Drama (DRM)
Economics (ECN)
Education (EDU)
Electrical and Electronics Engineering (EEE)
Electronics Technology (ELT)
Elementary Education (EED/ECE)
Elementary Special Education (ECS)
English (ENG)
Exercise Science (EXS)
Fashion Design (FDM)
Finance (FNC)
Fine Arts (FIA)
Food Science Nutrition (FSN)
French (FRN)
General Studies (GST/UNI)
Geography (GEO)
German (GRM)
Health Education (HED)
Health Information Management (HIM)
Health Related Professions (HRP)
Health Rehabilitation Services (HRS)
Health Services Management (HSM)
History (HIS)
Humanities (HUM)
Industrial Education (IED)
Industrial Management Technology (IMT)
Intelligence Studies (INS)
Interdisciplinary Studies (INT)

Japanese (JPN) Journalism (JRN)
Korean (KOR)
Latin (LAT)
Logic (LOG)
Management (MGT)
Management Information Systems (MIS)
Manufacturing Technology (ITM)
Marketing (MKG)
Mass Communications (MCM)
Mathematics (MTH)
Medical Technology (MDT)
Military Science (MSL)
Music (MUS)
Naval Science (NSC)
Nursing (NUR)
Optical Engineering (OEN)
Physical Education (PED)
Physics (PHY)
Political Science (POS)
Psychology (PSY)
Religion (REL)
Secondary Education and Leadership (SED)
Social Work (SWK)
Sociology (SOC)
Spanish (SPN)
Special Education (SPE)
Speech Communication (SCM)
Spartan Seminar (SEM)
Swahili (SWA)
Theatre (DRM)
Tourism and Hospitality Management (HRM)
Urban Planning (URP)

VARIATION CODE

CODE	TITLE
SS	Summer School Only
FO	Fall Semester Only
SO	Spring Semester Only
E	Each Semester including Summer
EE	Each Semester excluding Summer
FS	Fall and Summer Semesters Only
SI	Sufficient Student Interest
SU	Spring and Summer Semesters
O	Offered Every Other Year

Continuation of ACC 302. Emphasis on the accounting literature and the concepts of accounting theory.

ACC 412 Three Credits

ADVANCED ACCOUNTING (SI)

PREREQUISITE: ACC 411

Accounting for partnerships, home offices, branches, combinations, and consolidations. Emphasis on foreign currency translation and other aspects of international accounting.

ACC 413 Three Credits

COST ACCOUNTING (EE)

PREREQUISITE: ACC 202, BUS 284

Study of cost accounting systems, product costing, and inventory valuation. Emphasis on the uses of accounting data as an aid in managerial planning and control.

ACC 414 Three Credits

AUDITING (EE)

PREREQUISITES: ACC 302; BUS 284

Rigorous study of the examination of financial statements by independent auditors within the framework of generally accepted accounting principles using generally accepted auditing standards.

ACC 418 Three Credits

GOVERNMENTAL AND NOT-FOR-PROFIT ACCOUNTING (SI)

PREREQUISITE: ACC 302

Theory and application of accounting within governmental and not-for-profit organizations, including fund allocations.

ACC 420 Three Credits

SELECTED TOPICS IN ACCOUNTING (SI)

PREREQUISITE: ACC 302

Topics covered give additional consideration to selected accounting problems. Current accounting issues are examined.

ACC 455 Three Credits

THEORY OF ACCOUNTING (SI)

PREREQUISITE: ACC 302

Thorough study and review of accounting literature and pronouncements of rule-making organizations. Financial Accounting Standards Board Statements explored in depth. Current issues and developments are also studied.

ARABIC (ARA)

ARA 111 Three Credits

ELEMENTARY ARABIC I

Introduces students to the basic grammar and sentence structures of Arabic and to some aspects of Arab culture. The course includes reading, speaking, listening, and writing to familiarize students with Arabic as it is used in communication situations of everyday life.

ARA 112 Three Credits

ELEMENTARY ARABIC II

PREREQUISITE: ARA 111

A continuation of the introduction to Arabic language and

culture, with emphasis on the basic skills of understanding, reading, speaking, and writing Arabic.

ARA 211 Three Credits

INTERMEDIATE ARABIC I

PREREQUISITE: ARA 112

Emphasis on grammar, reading and discussion of moderately difficult prose in Modern Standard Arabic, oral practice, and written composition.

ARA 212 Three Credits

INTERMEDIATE ARABIC II

PREREQUISITE: ARA 211

Intensive and extensive study and reading of modern standard Arabic prose, oral practice, and written composition

ASTRONOMY (AST)

AST 201 Three Credits

GENERAL ASTRONOMY

PREREQUISITE: PHY 152

General overview of the astronomical sciences at the college physics level. The night sky, the Earth-Moon system, the solar system, the Milky Way galaxy, the system of galaxies and Cosmology. Instructional methods include lectures, multi-media presentations and exercises.

AST 301 Three Credits

METHODS IN OBSERVATIONAL ASTRONOMY

PREREQUISITE: AST 201

Observational techniques of optical astronomy. The celestial sphere, naked-eyed observation and celestial system of coordinates. The use of the telescope and its auxiliary equipment. Observation of the sun, moon, planets and deep-sky objects. Astrometry, photometry and spectroscopy using CCD cameras.

AST 302 Three Credits

ASTROBIOLOGY

PREREQUISITE: AST 201

Study of the origin and evolution of life on earth, exploration of the solar system, and probability of life in the solar system, in the universe, and communication with extra-terrestrial life.

AST 303 Three Credits

INTRODUCTION TO ASTROPHYSICS

PREREQUISITES: PHY 153; AST 201 or equivalents

Overview of physical fundamentals of astrophysics. Introduction to modern physics; special relativity, quantum mechanics, nuclear physics and statistical mechanics. Covers the content of practical application in to introductory astrophysics topics. Instructional methods will include lectures, multi-media presentations and exercises.

AST 401 Three Credits

STELLAR ASTROPHYSICS

PREREQUISITE: AST 303

Intermediate level study of the physics of stars, the sun, stellar models, origin and evolution, nucleosynthesis, and last stages in stellar evolution. Formulates a simplified computer model of a star.

COREQUISITE: BIO 260L or Consent of Chair

Biological concepts of animal life, including morphology, taxonomy, life histories, reproduction and distribution.

BIO 260L One Credit

INTEGRATIVE ZOOLOGY LABORATORY (E)

PREREQUISITE: BIO 110, BIO 110L, BIO 111, BIO 111L

COREQUISITE: BIO 260 or Consent of Chair

Biological concepts of animal life, including morphology, taxonomy, life histories, reproduction and distribution.

BIO 261 Three Credits

GENERAL BOTANY (E)

PREREQUISITE: BIO 110, BIO 110L, BIO 111, BIO 111L

COREQUISITE: BIO 261L or Consent of Chair

Introductory study of the basic principles of botany, including comparative studies on morphology, physiology, genetics, ecology, and economic uses of major plants.

BIO 261L One Credit

GENERAL BOTANY LABORATORY (E)

PREREQUISITE: BIO 110, BIO 110L, BIO 111, BIO 111L

COREQUISITE: BIO 261 or Consent of Chair

Introductory study of the basic principles of botany, including comparative studies on morphology, physiology, genetics, ecology, and economic uses of major plants.

BIO 262 Two Credit

NATURAL HISTORY (SI)

PREREQUISITE: NONE

Survey of the principal plant and animal kingdom representatives with emphasis on recognition of some common types, their ecological association, classification, and distribution. (Requirements: field trips, a paper, and development of a project on identification of organisms collected).

BIO 263 Three Credits

VERTEBRATE EMBRYOLOGY (SO)

PREREQUISITE: BIO 260, BIO 260L

COREQUISITE: BIO 263L or Consent of Chair

Study of the mechanics of development, including the origin of gametes, fertilization, organogenesis, and morphogenesis of early development of the frog, chick, pig, and man.

BIO 263L One Credit

VERTEBRATE EMBRYOLOGY LABORATORY (SO)

PREREQUISITE: BIO 260, BIO 260L

COREQUISITE: BIO 263 or Consent of Chair

Laboratory study of the mechanics of development, including the origin of gametes, fertilization, organogenesis, and morphogenesis of early development of the frog, chick, pig, and man.

BIO 270 Three Credits

COMPARATIVE VERTEBRATE ANATOMY AND PHYSIOLOGY (FO)

PREREQUISITE: BIO 260, BIO 260L

COREQUISITE: BIO 270L or Consent of Chair

Study of the classification, morphology, and anatomy of vertebrates, including the functions of their organs and organ systems.

BIO 270L One Credit

COMPARATIVE VERTEBRATE ANATOMY AND PHYSIOLOGY LAB (FO)

PREREQUISITE: BIO 260, BIO 260L

COREQUISITE: BIO 270 or Consent of Chair

Study of the classification, morphology, and anatomy of vertebrates, including the functions of their organs and organ systems.

BIO 271 Three Credits

ECOLOGY (FO) PREREQUISITES: BIO 260; BIO 260L,

BIO 261, BIO 261L

COREQUISITE: BIO 271L or Consent of Chair

Composition and distribution of biotic communities, emphasizing interrelationships of organisms and their physical environment with application to current environmental problems.

BIO 271L One Credit

ECOLOGY LABORATORY (FO)

PREREQUISITES: BIO 260; BIO 260L, BIO 261, BIO 261L

COREQUISITE: BIO 271 or Consent of Chair

Composition and distribution of biotic communities, emphasizing interrelationships of organisms and their physical environment with application to current environmental problems.

BIO 272 Three Credits

HUMAN ANATOMY (EE)

PREREQUISITE: BIO 110, BIO 100L

COREQUISITE: BIO 272L or Consent of Chair

Study of the basic structure of organs and organ systems of the body.

BIO 272L One Credit

HUMAN ANATOMY LABORATORY (EE)

PREREQUISITE: BIO 110, BIO 110L

COREQUISITE: BIO 272 or Consent of Chair

Study of the basic structure of organs and organ systems of the body.

BIO 274 Three Credits

PLANT MORPHOLOGY (SI)

PREREQUISITE: BIO 261, BIO 261L

COREQUISITE: BIO 274L or Consent of Chair

Comparative survey of typical representatives of the plant kingdom with description of form and structure, reproductive processes (normal life cycles), and phylogenetic relationships of the principal plant groups.

BIO 274L One Credit

PLANT MORPHOLOGY LABORATORY (SI)

PREREQUISITE: BIO 261, BIO 261L

COREQUISITE: BIO 274 or Consent of Chair

Laboratory focuses on comparative surveys of typical representatives of the plant kingdom with description of form and structure, reproductive processes (normal life cycles), and phylogenetic relationships of the principal plant groups.

BIO 276 Three Credits

INVERTEBRATE ZOOLOGY (SI)

PREREQUISITE: BIO 260, BIO260L

COREQUISITE: BIO 276L or Consent of Chair

Development, morphology, comparative anatomy, phylogeny, classification and physiology of invertebrates.

BIO 276L One Credit

INVERTEBRATE ZOOLOGY LABORATORY (SI)

PREREQUISITE: BIO 260, BIO 260L

COREQUISITE: BIO 276 or Consent of Chair

Laboratory focuses on the development, morphology, comparative anatomy, phylogeny, classification and physiology of invertebrates.

BIO 278 Three Credits

CELL BIOLOGY (SO)

PREREQUISITES: BIO 260; BIO 260L, BIO 261, BIO 261L, CHM 221/221L, CHM 222/CHM 222L

COREQUISITE: BIO 278L or Consent of Chair

Study of intracellular mechanisms and the influence of such processes on the cell and its extracellular environment.

BIO 278L One Credit

CELL BIOLOGY LABORATORY (SO)

PREREQUISITES: BIO 260; BIO 260L, BIO 261, BIO 261L, CHM 221/ 221L, CHM 222/ 222L

COREQUISITE: BIO 278 or Consent of Chair

Study of intracellular mechanisms and the influence of such processes on the cell and its extracellular environment.

BIO 310 Three Credits

GENERAL MICROBIOLOGY (E)

PREREQUISITES: BIO 260, BIO 260L or BIO 261, BIO 261L; CHM 221/ 221L and CHM 222/ 222L

COREQUISITE: BIO 310L or Consent of Chair

Introduction to the microbes, including bacteria, molds, yeasts, and viruses. Investigation of fundamental concepts of microorganisms, including nutrition, ecology, and physiology; principles of sterilization and methods of control of microorganisms; their economic importance.

BIO 310L One Credit

GENERAL MICROBIOLOGY LABORATORY (E)

PREREQUISITES: BIO 260 or BIO 261; CHM 221/ 221L and CHM 222/ 222L

COREQUISITE: BIO 310 or Consent of Chair

Introduction to the microbes, including bacteria, molds, yeasts, and viruses. Investigation of fundamental concepts of microorganisms, including nutrition, ecology, and physiology; principles of sterilization and methods of control of microorganisms; their economic importance.

BIO 320 Three Credits

PATHOPHYSIOLOGY (E)

PREREQUISITES: BIO 165 and 166

Introduction to the study of the normal physiology of various systems of the human body and how alterations in structure and function can initiate the onset of disease. Inherent in this course is a study of the adaptive capacity of the human body.

BIO 330 Three Credits

REVIEW OF HUMAN ANATOMY, PHYSIOLOGY AND MICROBIOLOGY FOR HEALTH PROFESSIONS (SI)

PREREQUISITES: BIO 166 and 163

COREQUISITE: BIO 330L or Consent of Chair

Study of the structure and function of the human body.

BIO 330L One Credit

REVIEW OF HUMAN ANATOMY, PHYSIOLOGY AND MICROBIOLOGY FOR HEALTH PROFESSIONS LABORATORY (SI)

PREREQUISITES: BIO 166 and BIO 163

COREQUISITE: BIO 330 or Consent of Chair

Current practices of sterilization, aseptic techniques, cultural methods, principles of host defense mechanisms, and infectious disease processes.

BIO 350 Three Credits

PARASITOLOGY (SO)

PREREQUISITE: BIO 110, BIO110L, BIO 111, BIO 111L, BIO 260, BIO 260L

COREQUISITE: BIO 350L or Consent of Chair

Study of symbiotic relationships between representatives that are dependent upon a symbiont and the clinical and pathological implications inherent in such a relationship.

BIO 350L One Credit

PARASITOLOGY LABORATORY (SO)

PREREQUISITE: BIO 110, BIO 110L, BIO 111, BIO 111L, BIO 260, BIO 260L

COREQUISITE: BIO 350 or Consent of Chair

Inquiry-based application of the clinical and pathological implications of inherent relationships established between symbionts.

BIO 351 Three Credits

PRINCIPLES OF GENETICS (EE)

PREREQUISITES: BIO 260, BIO 260L, BIO 261, BIO 261L; CHM 221/ 221L, CHM 222/ 222L

COREQUISITE: BIO 351L or Consent of Chair

Introductory course dealing with the principles of heredity and variation in plants and animals, including man.

BIO 351L One Credit

PRINCIPLES OF GENETICS LABORATORY (EE)

PREREQUISITES: BIO 260, BIO 260L, BIO 261, BIO 261L; CHM 221/221L, CHM 222/222L

COREQUISITE: BIO 351 or Consent of Chair

Introductory genetic labs are designed to provide exercises that deal with the principles of heredity and variation in plants and animals, including man.

BIO 362 Three Credits

HISTOLOGY AND MICROTECHNIQUE (FO)

PREREQUISITES: BIO 260 and BIO 261

COREQUISITE: BIO 362L or Consent of Instructor

Study of the structure and properties of cells, the cellular relationships to the main type of tissues and histology of organs; the principles and methods of preparation of plant and animal tissues; and some techniques in histochemistry.

BIO 362L One Credit

HISTOLOGY AND MICROTECHNIQUE LABORATORY (FO)

PREREQUISITES: BIO 260, BIO 260L and BIO 261, BIO 261L

COREQUISITE: BIO 362 or Consent of Instructor

Study of the structure and properties of cells; the cellular relationships to the main type of tissues and histology of organs; the principles and methods of preparation of plant and animal tissues; and some techniques in histochemistry.

BIO 364 One Credit

SEMINAR AND COLLOQUIUM IN BIOLOGY (EE)

PREREQUISITE: Junior or Senior Standing or Consent of Instructor

Consideration of current research and development in biology, including reviews, reports, and discussions of investigations reported in scientific journals.

BIO 400 Three Credits

FORENSIC MOLECULAR BIOLOGY (EE)

PREREQUISITE: Junior or Senior Standing or Consent of Instructor

Designed to provide students with the scientific background and hands-on experience on the molecular aspects of DNA forensics. Protocols and procedures currently used in DNA forensic tests will be performed, including DNA isolation from various sample sources, gel electrophoresis, PCR, STR analysis, and data interpretation. Relevant scientific journals will be consulted and articles discussed.

BIO 400L One Credit

FORENSIC MOLECULAR BIOLOGY LAB (EE)

Experiment of DNA forensic tests on current protocols and procedures, including DNA isolation from various sample sources, gel electrophoresis, PCR, STR analysis, and data interpretation.

BIO 452 Two Credits

BIOLOGICAL INSTRUMENTAL TECHNIQUES (EE)

PREREQUISITES: CHM 221/ 221L and CHM 222/ 222L

Training and practice in various bioinstrumental techniques, including statistical analysis of data, respirometry, photo microscopy, spectrophotometry, chromatography, electrophoresis, and physiological measurements.

BIO 457 Two Credits

EVOLUTION (SI)

PREREQUISITE: BIO 351 or Consent of Instructor

Discussion and lectures on the organic evolution of plants and animals.

BIO 459 Three Credits

GENERAL PHYSIOLOGY (E)

PREREQUISITES: 16 semester hours of Biology and Organic Chemistry

COREQUISITE: BIO 459L or

Discusses fundamental principles and properties of physiological processes common to animals.

BIO 459L One Credit

GENERAL PHYSIOLOGY LABORATORY (E)

PREREQUISITES: 16 semester hours of Biology and Organic Chemistry

COREQUISITE: BIO 459L or Consent of Chair

Demonstrates fundamental principles and properties of physiological processes common to animals.

BIO 461 Three Credits

PLANT PHYSIOLOGY (SI)

PREREQUISITES: BIO 261, BIO 261L; CHM 322, 322L

COREQUISITE: BIO 461L or Consent of Instructor

Consideration of the physicochemical factors involved in plant growth with special emphasis on synthesis, water economy, transpiration, energy transfers, mineral nutrition, regulation, and the red, far-red reactions of phytochrome of seed plants.

BIO 461L One Credit

PLANT PHYSIOLOGY LABORATORY (SI)

PREREQUISITES: BIO 261, BIO 261L; CHM 322, 322L

COREQUISITE: BIO 461 or Consent of Instructor

Consideration of the physicochemical factors involved in plant growth with special emphasis on synthesis, water economy, transpiration, energy transfers, mineral nutrition, regulation, and the red, far-red reactions of phytochrome of seed plants.

BIO 469 Three Credits

BIOCHEMISTRY (SI)

PREREQUISITES: CHM 222 or equivalent

COREQUISITE: BIO 469L or Consent of Instructor

Biochemical analysis of cellular function and consideration of the implications of the properties of cells, including the cell and its organization, protein structure and specificity; biochemistry of lipids, carbohydrates, and nucleic acids; regulation of cell metabolism; biochemical aspects of synthesis.

BIO 469L One Credit

BIOCHEMISTRY LABORATORY (SI)

PREREQUISITE: CHM 222 or equivalent

COREQUISITE: BIO 469L or Consent of Instructor

Designed to analyze biochemical properties of protein structure and specificity; biochemistry of lipids, carbohydrates, and nucleic acids; regulation of cell metabolism; cellular basis of hormone action; and biochemical aspects of synthesis.

BIO 472 Three Credits

CELL STRUCTURE AND FUNCTION (SI)

PREREQUISITES: BIO 260, 161; CHM 222, 222L

Introduction to biochemistry, cellular metabolism, and cellular ultrastructure as they relate to cell function.

BIO 474 **Three Credits**
MOLECULAR BIOLOGY (EE)
PREREQUISITES: BIO 310 BIO 310L, BIO 351, BIO 351L; CHM 222 and 222L
COREQUISITE: BIO 474L
Semi-quantitative introduction to chemical, physical or molecular aspects of biology. It is believed that through an interdisciplinary approach, science majors in general are given a firm background on which to build, and the course also enables students to acquire a fairly detailed understanding of biological phenomena.

BIO 474L **Two Credits**
MOLECULAR BIOLOGY LABORATORY (EE)
PREREQUISITE: BIO 310, BIO 310L, BIO 351, BIO 351L; CHM 222, CHM 222L
COREQUISITE: BIO 474
Introduction to the basic techniques in Recombinant DNA which encompasses the principles and practical aspects of molecular techniques through discussions, demonstrations, and hands-on experience, covering isolation of DNA, restriction of endonuclease digestion, gel-electrophoresis, nick translation, southern and northern blots, and DNA sequencing.

BIO 480 **Four Credits**
INTRODUCTION TO ENVIRONMENTAL TOXICOLOGY (SO)
PREREQUISITES: CHM 322, 322L
Multi-disciplinary course designed to focus on the importance of the electric approach to environmental toxicological studies. Examine the sources and types of environmental toxicant, the levels and modes of exposure, and their significant toxic hazard in the work place, the household, and the general environment.

BIO 482 **Four Credits**
EPIDEMIOLOGY (FO)
PREREQUISITE: BIO 310
Basic principles and methods of Epidemiology and the application to communicable and non-communicable diseases, community health, and health services research. Reviews observational and experimental study design; methods and data analysis; and various indices of assessing morbidity, mortality, and population dynamics.

BIO 485 **Three Credits**
IMMUNOLOGY
PREREQUISITE: BIO310, BIO 310L, BIO 351, BIO 351L; CHM 321, CHM 321L
General properties of immune responses, cells and tissues of immune system, lymphocyte activation and specificity, effector mechanism, immunity to microbes, immunodeficiency and AIDS, autoimmune diseases, transplantation.

BIO 487 **Three Credits**
ECOLOGICAL TOXICOLOGY
PREREQUISITE: BIO 271
COREQUISITE: BIO 487L or Consent of Chair
Study of the commonly used pesticides, their toxicity and implications for man and environment.

BIO 487L **One Credit**
ECOLOGICAL TOXICOLOGY LABORATORY
PREREQUISITE: BIO 271
COREQUISITE: BIO 487 or Consent of Chair
Studies the use of pesticides, their toxicity and implications for man and environment.

BIO 490 **Three Credits**
IMMUNOLOGY OF TOXINS
PREREQUISITE: BIO 310
COREQUISITE: BIO 490L or Consent of Chair

Introduction to the specific and non-specific host mechanisms of defense as well as the humoral and cellular reactions.

BIO 490L **One Credit**
IMMUNOLOGY OF TOXINS LABORATORY
PREREQUISITE: BIO 310

COREQUISITE: BIO 490 or Consent of Chair

Special emphasis on the immune response of animals to infectious agents, microbial toxins and environmental toxins.

BIO 492 **Four Credits**
PRINCIPLES OF GENETIC TOXICOLOGY (SI)
PREREQUISITES: BIO 351, BIO 351L; CHM 322 and 322L

General principles of toxicology as they relate to adverse genetic effects of environmental agents. Basic mechanism of action, including the molecular and chemical basis for mutagenic effects. Techniques for the detection and characterization of chemical mutagen will be included in the laboratory demonstrations.

BIO 494 **Three Credits**
MEDICAL ENTOMOLOGY (SI)
PREREQUISITE: BIO 260, BIO 260L

COREQUISITE: BIO 494L or Consent of Chair

Study of the taxonomy, morphology, behavior, and relationships of arthropods of medical importance, and arthropod-borne human diseases.

BIO 494L **One Credit**
MEDICAL ENTOMOLOGY LABORATORY (SI)
PREREQUISITE: BIO 260, BIO 260L

COREQUISITE: BIO 494 or Consent of Chair

Emphasis on the epidemiological aspects of the disease and the biological, chemical, and integrated methods of control of the arthropods.

BIO 495 **Four Credits**
BIOSTATISTICS (FO)
PREREQUISITES: BIO 110, BIO 110L; MTH 153

Introduction to statistical methods of health sciences. The principles underlying basic methods of statistical analysis are examined, including elementary concepts of probability, descriptive statistics, and statistical estimation and testing. Special emphasis on the problems of interpreting data from experimental and observation studies.

BIO 496 **Four Credits**
SPECIAL PROBLEMS IN TOXICOLOGY (SI)
PREREQUISITES: BIO 495; CHM 322 and 322L

Discussion and practical work sessions concerning the development of ideas and activities for specific experimental studies. The specific features include methodology, initiation of independent and original protocols as a toxicological tool.

BIO 497 Two Credits

INTRODUCTION TO RESEARCH (EE)

PREREQUISITE: Junior or Senior Standing

Introduction to independent experimental work under the guidance of staff members. Provisions or Honors and undergraduate research participation projects and investigations.

BIO 499 Three Credits

TISSUE AND CELL CULTURE (SI)

PREREQUISITE: Consent of Instructor

COREQUISITE: BIO 499L

Study of the basic protocols currently employed in the initiation and maintenance of cell lines for in vitro studies, including cell structure, cell types and tissues, behavior of cells in culture, and environmental factors that modulate cell growth.

BIO 499L One Credit

TISSUE AND CELL CULTURE LABORATORY (SI)

PREREQUISITE: Consent of Instructor

COREQUISITE: BIO 499

Experience in fundamental aspects of handling cell lines.

BIO 500 Three Credits

BIOLOGICAL ASPECTS OF AGING

Study designed for gerontology students concerning the scientific basis of the causes, effects, mechanisms, and functions of growing old.

BIO 501 Three Credits

HISTORY OF BIOLOGICAL CONCEPTS

PREREQUISITES: BIO110 AND BIO 474

Study of significant developments in the field of biology that influenced modern biological concepts. Discoveries and their impact on technological advances are discussed.

BIO 502 Three Credits

MODERN BIOLOGY

PREREQUISITES: BIO-110 or EQUIVALENT AND CHM-321, 322

Fundamental concepts of biology at the organismal, cellular, and molecular levels. Emphasis on molecular biology of cells function and organization; topics include animal cells, assembly cell structure, principles and mechanisms.

BIO 510 Three Credits

EXPERIENCE IN BIOLOGY

Theory and practice of selected biological and biochemical techniques of current importance to molecular biology, including a coordinated succession of experiments employing modern laboratory tools to examine.

BUSINESS (BUS)

BUS 175 Three Credits

INTRODUCTION TO BUSINESS AND ENTREPRENEURSHIP (E)

Introduction to the world of business and the integrative nature of business activities, business topics germane to both corporate and entrepreneurial environment, including the impact of globalization. Emphasis on the decision-making process in various inter-departments and business functional areas.

BUS 270 Three Credits

BUSINESS STATISTICS (E)

PREREQUISITE: MTH 132

Methods of collecting, tabulating, graphing and interpreting statistical data, measures of central tendency and variability. Elementary probability with emphasis on binomial and normal distributions, sampling methods, estimating and hypotheses testing.

BUS 281 Three Credits

LEGAL ENVIRONMENT FOR BUSINESS (EE)

PREREQUISITE: BUS 175

Survey of the Anglo-American legal system, the American court system, criminal law, tort law, contracts, property law, the law governing business organizations, and governmental regulation of business. Emphasis on the legal, ethical, social, and political environment in which business and government operate.

BUS 284 Three Credits

ADVANCED MICROCOMPUTING (E)

Exploration of complex spreadsheet problems, sensitivity analyses, and the use of database management systems within microcomputer software.

BUS 288 Three Credits

PRINCIPLES OF E-BUSINESS (SI)

PREREQUISITES: BUS 175, BUS 284

This course introduces the processes involved with planning, starting, operating, and marketing an e-business in today's environment. Timely topics such as creating business plans, securing financing, marketing, payment methods, Web site development, Web technologies, and e-business security are discussed.

BUS 300 **Three Credits**
INTERNSHIP (SI)
PREREQUISITE: Consent of an Instructor and a Manager in the workplace

Supervised work experience in an approved business environment. Students will submit a proposed work plan to the start of the experience and a paper detailing the experience after its completion.

BUS 310 **Three Credits**
RISK MANAGEMENT (SO)
PREREQUISITES: BUS 360; BUS 366

Introduction to the theory of insurance, types of personal and business coverage, and the analysis of business risks and risk-bearing from the standpoint of risk reaction, risk reduction, risk elimination, and risk evaluation. Emphasis on the fundamental unifying elements of risk and insurance.

BUS 330 **Three Credits**
BUSINESS COMMUNICATIONS (EE)

Techniques for writing management-oriented internal and external communications. Emphasis on theory, planning, oral and written presentations, audience perceptions, data organization, media selection, preparation techniques for business letters, and an overview of reports. Includes hands-on experience with the Internet and presentation software.

BUS 350 **Three Credits**
THE ETHICS OF MANAGEMENT (SO)
PREREQUISITES: BUS 175 and Junior Standing

This course will focus on issues and perspectives of right and wrong in American business. Students will survey various philosophical approaches, values, moral reasoning, and social responsibility to determine ethical behavior and morality. These approaches will be applied to real world cases drawn from the various functional area or business.

BUS 360 **Three Credits**
CORPORATE FINANCE (E)
PREREQUISITES: ACC 202; ECN 212

Study of the major finance functions of modern corporations, including the need for funds to finance the acquisition of various assets such as receivables, inventories, and plant and equipment; the alternative sources of funds available including short-term and long-term, internal and external analysis of the firm's capital structure, and alternative long-term financing sources and techniques. Analysis of the ethics involved in various areas of finance and international finance topics.

BUS 362 **Three Credits**
INVESTMENTS (EE)
PREREQUISITE: BUS 360 or permission from department chair

Introduction to investment analysis which analyzes the various types of business and public securities and portfolio management concepts, including international diversification. Study of the process by which a growing small business can issue stock and other securities to the public.

BUS 363 **Three Credits**
FINANCIAL INSTITUTIONS (EE)
PREREQUISITE: BUS 360

Fundamentals of financial institutions with emphasis on the actual operations and business of commercial banks, mutual savings banks, savings and loan associations, credit unions and other financial institutions.

BUS 364 **Three Credits**
MANAGING THE FAMILY BUSINESS (SI)
PREREQUISITES: BUS 365; BUS 360

Discussion of business management concepts on the family business environment which examines the stages of the family enterprise with emphasis on managing people, change and conflict, as well as strategic planning and organizational tools applicable to the family business, evaluation of situations and problems in a family business through the analysis of cases; and realize the career paths and opportunities.

BUS 365 **Three Credits**
ORGANIZATIONAL BEHAVIOR AND THEORY (E)
PREREQUISITES: PSY 210 or Equivalent, Junior Standing

Study of organizational behavior and the various social units-including individuals, groups, and group of groups-that constitute organizations. Exploration of relevant theories of the relations and processes among individuals, in and between groups, and in and between organizations. Through experiential approaches, develops social and analytical skills for leadership and membership in organizations.

BUS 366 **Three Credits**
PRINCIPLES OF MARKETING (E)
PREREQUISITE: Junior Standing

Survey of the field of marketing, concentrating on the marketing mix. Significant emphasis on the relationship between marketing activities and the consumer, the ethical and international aspects of marketing in entrepreneurial and corporate environments.

BUS 367 **Three Credits**
CUSTOMER BEHAVIOR (SO)
PREREQUISITE: BUS 366

Study of customer characteristics needed to write an effective marketing plan. Emphasis on both the household customer and organizational customers in relation to positioning, promotion, and marketing strategy.

BUS 368 **Three Credits**
HUMAN RESOURCE MANAGEMENT (E)
PREREQUISITE: BUS 365

Focus on administering change within organizations through the training and developing of human resources. Experiential activities enhance the development of leadership skills in the training process.

BUS 370 **Three Credits**

TOTAL QUALITY MANAGEMENT (SO)

PREREQUISITES: BUS 270 and Junior Standing

Introduction to quality management in manufacturing and service organizations with emphasis on the evolution of quality movement worldwide, TQM and "Quality First" Paradigms. Students are exposed to quality principles from a global perspective. The case study approach is used to examine quality planning and implementation in all types of organizations, especially those that won the MBNQA.

BUS 371 **Three Credits**

BUSINESS APPLICATIONS IN VISUAL C++ (SO)

PREREQUISITE: BUS 284

Application of the object model through C++ providing the necessary tools to design and implement business applications using C++'s Visual Workbench/IDE.

BUS 372 **Three Credits**

ENTREPRENEURIAL FINANCE (SI)

PREREQUISITE: BUS 360

Overview of entrepreneurial financial management which establishes a foundation for understanding of the basic financial techniques for an owner and owner manager in the small business environment with emphasis on the sources of funding, financial planning and forecasting, cash flow analysis, buy/lease decisions, financing of franchising, and the home office, among other topics. International opportunities for small businesses and financial instruments of global businesses are introduced.

BUS 374 **Three Credits**

BUSINESS APPLICATIONS IN VISUAL BASIC (EE)

PREREQUISITE: BUS 284

Study of Visual Basic development, language syntax, and programming in an event-driven environment.

BUS 375 **Three Credits**

MANAGEMENT INFORMATION SYSTEMS AND E-COMMERCE (E)

PREREQUISITE: BUS 284

Study of functional information systems, e-commerce concepts, and ethical issues in MIS and E-Commerce.

BUS 376 **Three Credits**

STATISTICS AND QUANTITATIVE METHODS (E)

PREREQUISITES: MTH 132; DSC 270; Junior Standing

Introduction to regression techniques and analysis of variance
Introduction to regression techniques and analysis of variance in decision-making; contingency tables, decision analysis, management science models, decision-making process, linear programming, transportation, assignment and network models; simple waiting line problems and use of simulation.

BUS 378 **Three Credits**

BUSINESS APPLICATIONS IN JAVA (EE)

PREREQUISITE: MIS 284

An introduction to JAVA as an object-oriented language used to write JAVA applets and applications. Business examples incorporating multimedia, multithreading, networking, object-oriented concepts of: abstraction, encapsulation, inheritance, polymorphism, persistence, and dynamic binding.

BUS 380 **Three Credits**

PRINCIPLES OF REAL ESTATE (FO)

PREREQUISITE: BUS 360 and Junior Standing

Analysis of the fundamental law of real property with special emphasis on the changing character of the urban economy, buildings and land use, and their values.

BUS 382 **Three Credits**

COMMERCIAL LAW (SS)

PREREQUISITE: BUS 281

Introduction to commercial law with emphasis on sales of goods, credit, secured transactions affecting both real estate and personal property, negotiable instruments, rules of bankruptcy, negotiable documents of title, legal aspects of the bidding process, and liability of accounts to clients and non-clients.

BUS 385 **Three Credits**

WEB 2 APPLICATIONS

This course will introduce students to emerging technology. Emphasis will be placed on evolving technologies and trends for information systems. Students will have the opportunity to review and evaluate emerging tools, applications, and media that underlie these emerging technologies. More specifically, the concepts of Web 2.0 and Web 3.0 will be discussed. Many of the technologies that make up Web 2.0, including but limited to, social networking and media sharing sites, blogging, vlogging, podcasting, video podcasting, internet broadcasting, wiki technology, tagging, mashups, RSS feeds, folksonomies, enhanced web-based multimedia, etc., and what is on the horizon for Web 3.0 and 4.0 will be evaluated.

BUS 386 **Three Credits**

NEW VENTURE FINANCE (FO)

PREREQUISITES: BUS 360

In-depth analysis of the process of funding an entrepreneurial venture with a critical examination of the decisions and alternatives on the basis on their impact on firm value. Exploration of the techniques used in the areas of evaluation, business plan development, deal structure, and venture harvest. Discussions of seed and growth capital from sources such as individuals, angel funds, venture capital, investment banks, government, and commercial banks. Study of how entrepreneurs identify and commit the necessary resources to create and fund ventures.

BUS 387 **Three Credits**

INTRODUCTION TO ENTREPRENEURSHIP (E)

PREREQUISITES: BUS 366; BUS 360; BUS 365

Introduction to the important characteristics of entrepreneurs that relate to successful business start-ups, with emphasis on self-evaluation, effective decision-making skills, and practical aspects of a successful business start-up. A requirement is a written assignment on business plans based on a potential future business venture.

BUS 390 **Three Credits**

BUSINESS DATABASE MANAGEMENT (EE)

PREREQUISITE: BUS 284

Introduction to the design and development of database systems. Exploration of the database environment; relational aspects of the database theory; structured query language features of SQL server

BUS 391 **Three Credits**

INTRODUCTION TO DATA MINING & BIG DATA

PREREQUISITE: BUS 375

This course introduces students to the different data mining techniques and tools available to solve real-world problems. In addition, the students will learn about the characteristics of big data and software tools available.

BUS 395 **Three Credits**

INTRODUCTION TO PERSONAL FINANCIAL

PLANNING (EE)

PREREQUISITES: ECN 211, 212

Study of professional manuals in personal financial planning.

BUS 400 **Three Credits**

INDEPENDENT STUDY (SI)

PREREQUISITE: Consent of the Instructor

Supervised independent project designed to explore a single topic in a one-to-one learning relationship with a faculty member.

BUS 410 **Three Credits**

LEADERSHIP AND DIVERSITY IN MANAGEMENT (SO)

PREREQUISITE: BUS 365

Focus on how individuals and organizations can effectively, efficiently, and productively adapt to the challenges of diversity in the workforce and in the customer base.

BUS 411 **Three Credits**

SALESMANSHIP (E)

PREREQUISITE: BUS 366; Junior Standing

Study of the principles and techniques of personal selling and sales presentations including sales policies and the problems involved.

BUS 412 **Three Credits**

MARKETING MANAGEMENT (FS)

PREREQUISITE: BUS 366; Senior Standing

Study of the organization and management of marketing with emphasis on strategic decision-making for entrepreneurs and corporate entrepreneurs.

BUS 413 **Three Credits**

PRINCIPLES OF RETAILING (SO)

PREREQUISITE: BUS 366

Provide a basic understanding of the challenges and opportunities involved in the operations of retail business. Major areas of discussion include types of retail institutions, retail locations management, international retailing and the legal and ethical aspects of operating retail business.

BUS 414 **Three Credits**

ADVERTISING AND PROMOTION MANAGEMENT (SS)

PREREQUISITE: BUS 366

Study of the fundamental principles of communication as they apply to marketing and promotion including management of the promotional mix, advertising, personal selling, sales promotion, publicity, and point of purchase.

BUS 415 **Three Credits**

INTERNATIONAL MANAGEMENT (FO)

PREREQUISITES: Junior Standing; BUS 365

Analysis of the operations and the managerial strategies of various types of businesses in the international setting. Focus on the intellectual, political, social, economic, and moral issues that the business and government leaders must face in dealing with international business problems.

BUS 416 **Three Credits**

INTERNATIONAL MARKETING (O)

PREREQUISITE: MKG 366

Analysis of marketing principles relating to international marketing organizations, marketing channels, channels of distribution, selling, and pricing.

BUS 417 **Three Credits**

INTERNATIONAL BUSINESS

Analysis of the operations and the managerial strategies of various types of businesses in the international setting. Emphasis placed on the intercultural, social, economic, and political issues that business and government leaders must face in dealing with international business problems.

BUS 418 **Three Credits**

INTERNET MARKETING (O)

PREREQUISITE: MKG 366 or Permission of Instructor

Survey of marketing products on the Internet including such topics as uniqueness of the Internet as a marketing tool; Internet commerce; starting an Internet business; marketing mix and the Internet; and designing an Internet Web site.

BUS 419 **Three Credits**

NETWORKING (EE)

PREREQUISITE: MIS 284

Introduction to current networking technology. Exploration of OSI reference model, basic network designs, network components, network architectures, network operations, network administration and support, network hardware and software installation, and NT Server installation and configuration. Extensive hands-on training provided.

BUS 420 **Three Credits**

ORGANIZATIONAL CHANGE AND DEVELOPMENT (SO)

PREREQUISITE: MGT 365 and Senior Standing

Study of the knowledge base and competencies to be leaders or effective participants in organizational change efforts. Exposure to various models, determinants, and processes of effective change efforts.

BUS 421 **Three Credits**

**WEB APPLICATION DEVELOPMENT FOR
E- BUSINESS (EE)**

PREREQUISITES: BUS 372 or BUS 374 or MIS 378

Study of current technologies for designing and developing web based e-business applications. Topics include Active Server Pages, Scripting Languages, database integration, and others.

BUS 422 **Three Credits**

NICHE MARKETING (SO)

PREREQUISITE: BUS 366

Study of the economic, social, and psychological characteristics of various target markets as they relate to the field of marketing including demographic characteristics, psychological perceptions, shopping patterns, the role of black media, and the black businessperson and the marketing concept.

BUS 423 **Three Credits**

DECISION SUPPORT AND EXPERT SYSTEMS (EE)

PREREQUISITE: BUS 375

Study of the manager's responsibilities in problem-solving and decision-making and areas in which computers can be used as tools to gain insight needed to support decision alternatives.

BUS 425 **Three Credits**

**ADVANCED SEMINAR IN MANAGEMENT AND TOTAL
QUALITY (SI)**

PREREQUISITES: BUS 370; BUS 365

Examination and analysis of real studies of corporate and public sector management situations and problems, including a review of the strengths, weaknesses, opportunities, threats and how they relate to the problem's solution. Development of total quality-based solutions to the specific case studies.

BUS 430 **Three Credits**

**LABOR RELATIONS AND COLLECTIVE BARGAINING
(FO)**

PREREQUISITE: BUS 368

Exploration of the evolution and characteristics of union-management relations in America including union structure, government and leadership, social significance of unions, legal aspects of labor relations, contract administration, grievance resolution, and affirmative action.

BUS 431 **Three Credits**

INFORMATION SYSTEMS ANALYSIS AND DESIGN (EE)

PREREQUISITE: BUS 375

Introduction concepts and methods used in the analysis and design of business information systems. Opportunity to study the SDLC phases through group projects and CASE tools such as Visible Analyst.

BUS 435 **Three Credits**

COMPENSATION (FO)

PREREQUISITE: BUS 368

Examination of wage and salary administration and fringe benefit management in organizations including wage and salary administration, job evaluation procedures, compensation plans, fringe benefit analysis and planning.

BUS 465 **Three Credits**

SMALL BUSINESS MANAGEMENT (FO)

PREREQUISITE: BUS 387

Integration of entrepreneurial topics into comprehensive plans and/or suggestions for starting a business and solving problems. Requirements include completion of the business plans and presentation for approval, participation in a small business computer simulation, and learning more about entrepreneurs and small business management through classroom work.

BUS 467 **Three Credits**

CONTEMPORARY TOPICS IN ENTREPRENEURSHIP

PREREQUISITES: BUS 387; Senior Standing

Study of the latest concepts, theories, and applications in all aspects of entrepreneurship and small business management.

BUS 469 **Three Credits**

ENTREPRENEURSHIP-IN-RESIDENCE

The Entrepreneur-in-Residence Program is an integrative senior-level applied experience. The EIRP enables students to serve as consultants to prospective entrepreneurs as well as to actual for- and not-for-profit businesses. In the case of the former, students assist hopeful entrepreneurs as they perform market research, develop comprehensive business plans, investigate sources for financing, and establish their new ventures. In the latter instance, guided by clients' senior executives and NSU faculty, EIRP students develop solutions to today's complex business problems and present their recommendations to management.

BUS 473 **Three Credits**

MARKETING SEMINAR (SI)

PREREQUISITE: BUS 366

Discussion of topics related to the field of marketing.

BUS 474 **Three Credits**

INTERMEDIATE FINANCIAL MANAGEMENT (EE)

PREREQUISITES: BUS 360

This course builds on and reinforces concepts that were introduced in FNC 360. Among the topics covered are risk measurement and management, capital market theory, capital budgeting, valuation, capital structure theory, and dividend policy. This course concentrates on quantitative techniques and financial theory and integrates the discussion of globalization and ethics throughout the course.

BUS 475 **Three Credits**

TAXES, RETIREMENT, PLANNING AND ESTATE PLANNING

PREREQUISITES: BUS 363, 395

Study of professional manuals in personal financial planning.

BUS 476 **Three Credits**

OPERATIONS MANAGEMENT (E)

PREREQUISITE: BUS 376

Analysis of the economic problems of operations management, design of operating systems, forecasting, capacity planning, layout of facilities, materials and project management, planning and scheduling in production systems.

BUS 477 **Three Credits**

FRANCHISING (SI)

PREREQUISITES: BUS 366; Senior Standing

Introduction to the principles and strategies involved in starting and managing a franchise operation, with emphasis on the knowledge of franchise ability, the merits and demerits of franchising, and the rights and obligations of parties involved in franchising.

BUS 478 **Three Credits**

STRATEGIC MANAGEMENT (E)

PREREQUISITES: BUS 365, 366; BUS 360; BUS 476; Senior Standing

Study of formulating and implementing business and corporate strategic plans and evaluating management strategic performance in complex business environments including the corporate mission and objectives, industry analysis, competitive analysis, environmental analysis, business, corporate, and international strategy.

BUS 482 **Three Credits**

MANAGING GROWING VENTURES (SI)

PREREQUISITE: BUS 386

Study of managing growing companies in a professional manner while maintaining the entrepreneurial spirit. Emphasis on financing growth, measuring economic performance, and obtaining information for management decision making; management control systems for innovative companies; short-and long-run planning in owner managed businesses; and entrepreneurship and management.

BUS 484 **Three Credits**

CREATIVITY INNOVATION AND CHANGE MANAGEMENT (SI)

PREREQUISITE: BUS 387

Foundation for creating or finding new business opportunities, technologies or processes. Study of market research, competitive intelligence, and managing change, with emphasis on evaluation, planning, and leadership while distinguishing between need or idea and the opportunity.

BUS 486 **Three Credits**

ENTREPRENEURSHIP FIELD STUDIES (SI)

PREREQUISITE: BUS 465

Experience in working on an entrepreneurial venture with the instructor serving as a coach. Requirements are construction of a business plan and presentation of an assessment of the outcome.

BUS 488 **Three Credits**

INTERNATIONAL FINANCE (EE)

PREREQUISITES: BUS 212; BUS 360; Junior Standing

Analysis of the international monetary system and multi-national firms. Evaluation of the environment of direct foreign investments with emphasis on capital budgeting, working capital management, and sources and instruments of international fund remittances.

BUS 491 **Three Credits**

DATA ANALYSIS AND VISUALIZATION (EE)

PREREQUISITE: BUS 391

Students will apply data analytics and visualization techniques using Excel VBA, Pivot tables, Power Pivot, and Tableau.

BUS 492 **Three Credits**

BUSINESS INTELLIGENCE (EE)

PREREQUISITE: BUS 491

This course covers advanced business intelligence applications. Students will apply the IBM SPSS Modeler to build descriptive, predictive, and prescriptive models.

CONSTRUCTION MANAGEMENT ENGINEERING (CMET)

CMET 140 **Three Credits**

INTRODUCTION TO CONSTRUCTION MANAGEMENT (FO)

This course gives students an overview of construction industry, project delivery methods, project participants and their roles, industry organizations and contract documents. The course also requires students to make presentations in class with objective to enhance public speaking and presentation skills. The course will also have guest speakers from the industry to give students a good understanding of current status of industry and how to prepare for a career in construction.

CMET 162 **Three Credits**

MATERIALS OF CONSTRUCTION (FO)

A comprehensive study of construction materials, their characteristics, advantages, and limitations. Emphasis will be placed upon how these materials are used in various building systems, with emphasis on costs and durability.

CMET 260 **Three Credits**

BUILDING CODES AND SPECIFICATIONS (FO)

Emphasis on regional and national building codes, history of building regulations, zoning and its influence on construction and business, including specifications and acceptance on costs and durability.

CMET 262 **Three Credits**

METHODS OF BUILDING CONSTRUCTION I (SO)

PREREQUISITE: BCT 162

A comprehensive study where emphasis is placed on the design, planning and methods of the 16 CSI divisions. Local and national building codes and techniques are emphasized.

CMET 262L **One Credit**

METHODS OF BUILDING CONSTRUCTION I (SO)

PREREQUISITE: BCT 162

An introduction to construction methods and their applications. This is a hands-on course which has four components: construction safety, concrete/masonry, carpentry and woodworking. Students will learn to use math, blueprints, building specifications, optical leveling equipment, hand tools, portable power tools, and stationary power tools, in a sequence of learning activities designed for students to be able to do and understand the work of the construction labors and subcontractor, they will manage at the site.

CMET 263 **Three Credits**

FUNDAMENTALS OF SURVEYING (FO)

PREREQUISITE: MTH 153

Principles and practices of using basic surveying instruments, error analysis, and note keeping. (Meets 4 hrs. per week.)

CMET 263L **One Credit**

FUNDAMENTALS OF SURVEYING LAB (SO)

This course is designed to teach the basic fundamentals of surveying with in-depth hand-on experience with land surveying equipment. It is designed to prepare students to work as a member of a surveying field party, including the position of instrument man, it teaches basic fieldwork and office procedures required in the construction industry.

CMET 264 **Three Credits**

INTERMEDIATE SURVEYING (SI, SO)

PREREQUISITE: BCT 263

Practice of obtaining horizontal, vertical, and angular measurements; azimuths and bearing; traverse surveys and computations; triangulation of ordinary precision; stadia; land area calculation, and construction surveys. (Meets 4 hrs. per week.)

CMET 265 **Three Credits**

ARCHITECTURAL DETAILS (FO)

PREREQUISITE: TMD 151

A comprehensive study of building components for light residential construction. It covers all aspects of residential planning and design. The basic planning principles and procedures are presented in detail. Electrical and mechanical systems will be covered to include the efficient use of energy in architecture design.

CMET 266 **Three Credits**

ARCHITECTURAL DRAFTING (SO)

PREREQUISITES: BCT 265

A comprehensive study of building components for light commercial construction. It covers all aspects of residential planning and design. The basic planning principles and procedures are presented in detail. Electrical and mechanical systems will be covered to include the efficient use of energy in architecture design. (Meets 6 hrs. per week.)

CMET 363 **Three Credits**

METHODS OF BUILDING CONSTRUCTION II (FO)

PREREQUISITE: BCT 262

Comprehensive study of building construction techniques in the construction industry. Emphasis on residential and commercial type structures. Field trips are included.

CMET 364 **Three Credits**

STEEL STRUCTURES (E)

PREREQUISITES: TMD 345, 345L

Theory and practice in the design and fabrication of structural steel in conformance with current codes and practices.

CMET 367 **Three Credits**

CONCRETE STRUCTURES (SI)

PREREQUISITES: TMD 345, 345L

Theory and practice in the design of concrete structures in conformance with current codes and practices.

CMET 368 **Three Credits**

TIMBER STRUCTURES

PREREQUISITES: TMD 345, 345L

Theory and practice in the design and fabrication of structural timber in conformance with current codes and practices.

CMET 370 **Three Credits**

COST ESTIMATES AND QUALITY CONTROL I (SO)

PREREQUISITE: BCT 266

Surveys methods of taking quantities from plans, preparation of unit price and lump sum estimates for structural units, including material, expediting, job supervision, site selection, and progress charts and graphs., as well as, blueprint reading techniques.

CMET 372 **Three Credits**

BUILDING CONSTRUCTION PRACTICES (SI)

Designed to provide practical experiences using the latest techniques in working with masonry, wood, electrical, plumbing, steel and concrete structures.

CMET 376 **Three Credits**

SOIL MECHANICS (SO)

COREQUISITE: BCT 376L

Study of the engineering properties of soil and how those properties affect behavior, such as the movement of water through soil, including ground water contamination, stresses in a soil mass, volume change, shear strength, subsurface investigations and lateral earth pressure.

CMET 376L **One Credit**

SOIL MECHANICS LABORATORY (SO)

COREQUISITE: BCT 376

Study of the skills necessary to perform soils testing.

CMET 462 **Three Credits**

PROBLEM ANALYSIS AND PLANNING (FO)

PREREQUISITES: BCT 260 and 370

Consideration given to individual problem solving and analysis in specialized areas.

CMET 464 **Three Credits**

ORGANIZATION AND SUPERVISION OF CONSTRUCTION

(FO)

PREREQUISITE: BCT 462

Study of construction methods and organization; layout and planning; material requisitioning and progress scheduling, including basic training in estimating quantities of materials from plans and specifications, approximate cost data, fixed and operating cost in major construction works.

CMET 466 **Three Credits**

CONSTRUCTION MANAGEMENT CAPSTONE (SO)

PREREQUISITE: CMET 464

Comprehensive study of construction documents for group project, including preparation of working drawings, specifications, scheduling and cost estimates for project.

CHEMISTRY (CHM)

CHM 110 **Three Credits**

GENERAL CHEMISTRY FOR ENGINEERS (FO)

COREQUISITE: MTH 102

The course provides the fundamental principles for the critical understanding of more advanced chemical concepts. It introduces students to the important ideas of matter composition and changes necessary for understanding of more advanced chemistry course material.

CHM 210 **Three Credits**

GENERAL CHEMISTRY FOR ENGINEERS (FO)

COREQUISITE: MTH 153

General Chemistry for engineering majors, emphasizing theoretical principles necessary for an understanding of the nature of matter and the physical and chemical changes which it undergoes. A good understanding of algebra is needed because of the problem solving nature of much of the work.

CHM 215 **Three Credits**

CHEMISTRY (FO) (SI)

COREQUISITE: CHM 215L

Study of the main concepts of general, organic, and biological chemistry. Designed for health science students whose curricula require only one year of chemistry.

CHM 215L **One Credit****CHEMISTRY LABORATORY (FO) (SI)**

COREQUISITE: CHM 215

Introduction to laboratory techniques in chemistry. For the Health, Science, Exercise Science Majors.

CHM 221, 222 **Three Credits Each****GENERAL CHEMISTRY I, II (EE)**

COREQUISITES: MTH 153; CHM 221L, 222L

Emphasis on theoretical principles necessary for an understanding of the nature of matter and the physical and chemical changes which it undergoes. High school chemistry not required but desirable. Good understanding of algebra desirable. Must be taken in sequence.

CHM 221L, 222L **One Credit Each**

Experimental chemistry utilizing methods of separation, identification, and purification of mixtures. Emphasis on thermochemical and chemical equilibrium concepts through analysis of experimental data. Must be taken in sequence.

CHM 231 **Three Credits Each****GENERAL CHEMISTRY I (EE)**

COREQUISITE: CHM 321R and MTH 153

General Chemistry for chemistry majors, emphasizing theoretical principles necessary for understanding the nature of matter and the changes it undergoes. . Good algebra skills are required because of the quantitative nature of much of the work.

CHM 231R **One Credit Each****GENERAL CHEMISTRY APPLICATIONS I, (E)**

COREQUISITE: CHM 231 and MTH 153

General Chemistry Applications is a two-semester course sequence for chemistry majors. It aims to develop in students the critical thinking skills necessary for success in all their major courses. Students work in facilitated learning teams, solving problems related to General Chemistry content.

CHM 232 **Three Credits Each****GENERAL CHEMISTRY II (EE)**

COREQUISITE: CHM 231, CHM 231R and MTH 153

General Chemistry for chemistry majors, emphasizing theoretical principles necessary for understanding the nature of matter and the changes it undergoes. Good algebra skills are required because of the quantitative nature of much of the work.

CHM 232R **One Credit Each****GENERAL CHEMISTRY APPLICATIONS II, (E)**

COREQUISITE: CHM 231, CHM 232R and MTH 153

General Chemistry Applications is a two-semester course sequence for chemistry majors. It aims to develop in students the critical thinking skills necessary for success in all their major courses. Students work in facilitated learning teams, solving problems related to General Chemistry content.

CHM 312 **Three Credits****INTRODUCTION TO ORGANIC CHEMISTRY (O)**

PREREQUISITE: CHM 222

Study of organic nomenclature, structure of organic compounds, the classes of organic compounds, and the reactions of organic molecules. A one semester organic chemistry for Health Science Majors.

CHM 312L **One Credit****ORGANIC CHEMISTRY LABORATORY (O)**

PREREQUISITE: CHM 222L COREQUISITE: CHM 312

Introduction to the techniques of purification, synthesis, and analysis used in the study of organic chemical reactions. Material is chosen to illustrate reactions and theoretical material presented in CHM 312.

CHM 321, 322 **Three Credits Each****ORGANIC CHEMISTRY I, II (EE) (E)**

PREREQUISITE: CHM 222 or 224

COREQUISITES: CHM 321L, 322L

Introduction to the chemistry of carbon-containing compounds, with emphasis on the relationship between the structure of organic molecules and their chemical reactions. Designed for science majors, including pre-medicine. Must be taken in sequence.

CHM 321L, 322L **Two Credits Each****ORGANIC CHEMISTRY LABORATORY I, II (EE)**

PREREQUISITE: CHM 222L COREQUISITE: CHM 321, 322

Laboratory course designed to teach modern laboratory procedures and techniques and to illustrate the reactions and theoretical material presented in CHM 321, 322. Must be taken in sequence.

CHM 331 **Three Credits****ANALYTICAL CHEMISTRY I (SO)**

PREREQUISITES: CHM 222 or 224; MTH 153

COREQUISITE: CHM 331L

Study of volumetric and gravimetric methods of analysis with emphasis on chemical equilibrium, including acid-base, precipitation, oxidation-reduction, and complex metric methods of analysis.

CHM 331L**Two Credits****ANALYTICAL CHEMISTRY I LABORATORY (SO)**

COREQUISITE: CHM 331

Practice of volumetric and gravimetric methods of analysis, including the use of instruments such as pH meters and electroanalyzers.

CHM 332**Three Credits****ANALYTICAL CHEMISTRY II (FO)**

PREREQUISITE: CHM 331; PHY 152

COREQUISITE: CHM 322L

Study of instrumental methods of analysis, including electrochemical, spectroscopic, chromatographic, thermal, and kinetic methods.

CHM 332L**Two Credits****ANALYTICAL CHEMISTRY II LABORATORY (FO)**

PREREQUISITE: CHM 331L COREQUISITE: CHM 332

Methods of analysis employing electrochemical techniques, spectrophotometer, chromatograph, microprocessor analyzers, and thermal analyzers.

CHM 345**Three Credits****MATHEMATICAL METHODS and LOGIC FOR THE
PHYSICAL SCIENCES (FO)**

PREREQUISITE: MTH 252

Application of differential equations, vector analysis, determinants and functions to problems encountered in the physical sciences. Emphasis on practical problem-solving skills.

CHM 351, 352**One Credit Each****SEMINAR (EE)**

Presentation and discussion of current topics in all areas of chemistry. Required of junior chemistry majors.

CHM 361, 362**Three Credits Each****PHYSICAL CHEMISTRY I, II (EE)**

PREREQUISITES: MTH 251; PHY 153 for CHM 361; MTH 252 for CHM 362

COREQUISITES: CHM 331, 345; MTH 252

Quantitative study of the structure and physical properties of matter including study of the laws governing chemical interaction and the foundations upon which these laws rest. Covers energy changes accompanying physical and chemical changes. Must be taken in sequence.

CHM 363L**Two Credits****PHYSICAL CHEMISTRY LABORATORY (SO)**

COREQUISITE: CHM 361, 362

Typical physicochemical measurements which seek to refine computational skills and experimental techniques. Instrumentation associated with spectroscopy, kinetics, and macromolecular characterization regularly employed.

CHM 397, 398**One Credit Each****INTRODUCTION TO RESEARCH (EE)**

PREREQUISITE: Approval of the Instructor

Investigation of current problems in chemistry, supervised by one of the members of the Chemistry Department. (5 hours lab per week required for one semester credit hour.)

CHM 431, 432**Three Credits Each****BIOCHEMISTRY I, II (EE)**

PREREQUISITES: CHM 322, 362

In-depth study of the reactions occurring in living systems, designed for science majors (especially students intending advanced study in the health sciences). Topics include molecular architecture, molecular energetics, interactions of biomolecules, intermediary metabolism, mass transport in biological systems, and molecular genetics.

CHM 431L, 432L**Two Credits Each****BIOCHEMISTRY LABORATORY I, II (EE)**

PREREQUISITE: CHM 322L or CHM 323L

Emphasis on the procedures and operations of modern instrumentation used for isolation, purification, and study of biomolecules including modern chromatography techniques, gel and paper electrophoreses, ultra centrifugation, spectroscopic techniques, etc. Techniques are applied to isolation of enzymes, other proteins, nucleic acids, and the study of enzyme kinetics and enzyme-catalyzed reactions in several systems.

CHM 451, 452**One Credit Each****SEMINAR (EE)**

Presentation and discussion of current topics in all areas of chemistry. Required of all senior chemistry majors.

CHM 462L**Two Credits****SPECTROSCOPY (SI)**

PREREQUISITE: CHM 332L

Problem solving in molecular spectroscopy using common techniques in infrared spectroscopy, nuclear magnetic spectroscopy, and ultraviolet-visible spectroscopy.

CHM 473**Three Credits****ADVANCED INORGANIC CHEMISTRY (FO)**

PREREQUISITE/ COREQUISITE: CHM 362

Study of chemical bonding, molecular structure, coordination compounds, and descriptive inorganic chemistry.

CHM 473L**Two Credits****ADVANCED INORGANIC CHEMISTRY LABORATORY (FO)**

PREREQUISITE: CHM 332L

Techniques for synthesis and characterization of transition metal coordination complexes. Utilize methods such as ion exchange chromatography, molar conductivity, electronic absorption, infrared, and nuclear magnetic resonance spectroscopy. The format is that of a unified project rather than a series of separate, unrelated experiments.

CHM 475**Three Credits****ADVANCED ORGANIC CHEMISTRY (SI)**

PREREQUISITE: CHM 322

In-depth study of organic reaction mechanisms with emphasis on physical measurements as a means of determining structure and mechanisms. The course is designed for students planning advanced study in chemistry, biology, or medical sciences.

CHM 477**Three Credits****SCIENTIFIC COMMUNICATION (SI)**

Comprehensive survey of scientific literature with emphasis on personal record-keeping, writing strategies, and appropriate writing styles for scientific writing. This class is open to all seniors interested in improving their writing skills.

CHM 481/482**Three Credits Each****SPECIAL TOPICS IN CHEMISTRY (SI)**

PREREQUISITE: Approval of Chemistry Department

Emphasis on modular topics including modern chemical bonding, stereochemistry, spectroscopy, ionization equilibrium, macromolecule, acid-base chemistry, organic and inorganic nomenclature, kinetics, advanced analytical techniques, etc.

CHM 497, 498**One Credit Each****INTRODUCTION TO RESEARCH (EE)**

PREREQUISITE: Approval of the Instructor Involved Investigation of current problems in chemistry supervised by one of the Chemistry Department instructors. (5 hours per week).

CHINESE (CHI)**CHI 111****Three Credits****ELEMENTARY CHINESE I**

Introduces students to the basic grammar and sentence structures of Chinese and to some aspects of Chinese culture. The course includes reading, speaking, listening, and writing to familiarize students with Chinese as it is used in communication situations of everyday life.

CHI 112**Three Credits****ELEMENTARY CHINESE II PREREQUISITE: CHI 111**

A continuation of the introduction to Chinese language and culture, with emphasis on the basic skills of understanding, reading, speaking, and writing Chinese.

COMMUNICATION SCIENCES AND DISORDERS (CSD)**CSD 101****Three Credits****ORAL COMMUNICATION ENHANCEMENT (E)**

Orientation course introduces students to various methods and techniques for improving their oral communication (speech) and listening skills. Emphasis on reading and writing skills. Students' speech-language patterns and hearing acuity are professionally assessed by certified speech-language pathologists and audiologists.

CSD 116**One Credit****ORIENTATION TO COMMUNICATION SCIENCES AND DISORDERS (E)**

Introduction to the professions of speech-language pathology and audiology with emphasis on the role of the American Speech-Language-Hearing Association and its code of ethics; certification procedures and professional nomenclature. Study of various speech-language and hearing disorders, including a discussion of academic and research aspects of speech-language pathology and audiology. (Web-based course).

CSD 211**Three Credits****PHONETICS (SO)**

PREREQUISITES: ENG 101, 102
(with grades of C or better)

Scientific study of English speech sounds, production, reception and symbolic use, including transcribing words and sentences with use of phonetics.

CSD 212**Three Credits****SPEECH AND LANGUAGE DEVELOPMENT (SO)**

PREREQUISITES: ENG 101, 102

Study of the normal processes of speech and language development with emphasis on language universals and the linguistic systems of sound patterns, word combining, meanings and intentionality. Examines relationship between cognition and language. The latter portion of the course introduces students to some aspects of disordered speech and language development.

CSD 213**One Credit****USE OF COMPUTERS AND OTHER INSTRUMENTATION IN COMMUNICATION SCIENCES AND DISORDERS (FO)**

PREREQUISITES: CSC 150 (or equivalent course) and CSD 116 (with grades of C or better).

Study of basic electronics, computer hardware design and software programs germane to the fields of speech-language pathology and audiology.

CSD 213**One Credit****USE OF COMPUTERS AND OTHER INSTRUMENTATION IN COMMUNICATION SCIENCES AND DISORDERS (FO)**

PREREQUISITES: CSC 150 (or equivalent course) and CSD 116 (with grades of C or better).

Study of basic electronics, computer hardware design and software programs germane to the fields of speech-language pathology and audiology.

CSD 218**Three Credits****ANATOMY AND PHYSIOLOGY OF THE SPEECH MECHANISM (FO)**

PREREQUISITE: BIO 105, or 165 (with grade of C or better)

Study of the basic structure of the organs that function in the production of speech with emphasis on the processes of respiration, phonation, resonance, and articulation, including neurological aspects of speech and language production. (web-based course).

CSD 311**Three Credits****METHODS AND MATERIALS IN COMMUNICATION SCIENCES AND DISORDERS (FO)**

PREREQUISITES: CSD 116, 212 (with grades of C or better).

Introduction to contemporary diagnostic and therapeutic methods and materials used by speech-language pathologists and audiologists in schools, hospitals, clinics and rehabilitation settings. Requirements include construction of a "functional workbook (kit)" consisting of diagnostic and therapy materials, clinical activities, and tests, and demonstration of the use of these materials in clinical practicum activities.

CSD 312**Three Credits****PHONOLOGICAL, ARTICULATORY AND RELATED LANGUAGE DISORDERS (FO)**

PREREQUISITES: CSD 116, 211 and 212 (with grades of C or better).

Comprehensive study of the phonological and articulatory processes of speech, and associative disorders of oral language. Students are required to administer and interpret the results of various tests (i.e., phonological, articulation, oral language, etc.). In addition, students observe diagnostic and therapy procedures conducted by certified speech-language pathologists working with speech-impaired children and adults.

CSD 313**Three Credits****INTRODUCTION TO AUDIOLOGY AND HEARING SCIENCES (FO)**

PREREQUISITES: MTH 105; BIO 105 or 165 (with grades of C or better).

Emphasis on the anatomy and physiology of the hearing mechanism and the disorders that can affect it. Basic audiometric techniques and procedures are taught, as well as the interpretation of hearing test results.

CSD 314**Three Credits****AUDIOLOGY AND HEARING SCIENCES II (SO)**

PREREQUISITES: CSD 313

Audiology II is a continuation to the introduction to Audiology and hearing sciences. Students identify the various auditory pathologies and their associated audiological manifestations. Assessments of special populations are considered.

CSD 315**Three Credits****NEUROGENIC AND OTHER ORGANIC COMMUNICATIONS DISORDERS (SO)**

PREREQUISITES: CSD 116, 218, 312 (with grades of C or better).

Introduction to the basics of neurology as they pertain to the communication processes. Overview of common neurogenic disorders of communication, including aphasia, apraxia, dysarthria, dementia and other linguistic disorders associated with traumatic brain injury, aging, substance abuse, etc.

CSD 320**Three Credits****VOICE AND SPEECH SCIENCES (SO)**

PREREQUISITES: MTH 105; BIO 105 or 165; CSD 116, 218 (with grades of C or better)

Study of the human voice and speech production processes. The physics of sound are explored, as well as the respiratory, laryngeal, resonatory and articulatory aspects of voice and speech. Diagnostic and treatment procedures for voices and speech disorders are also reviewed. Opportunities to conduct supervised field research activities are provided.

CSD 413**Three Credits****RESEARCH METHODS IN COMMUNICATION SCIENCES****AND DISORDERS (FO)**

PREREQUISITES: MTH 250; ENG 303 (with grades of C or better).

Independent research on a topic selected by the student and approved by the student's departmental advisor and completed under the guidance of that advisor. Study of the appropriate methods and procedures for data collection, analysis, interpretation and reporting. Students are expected to approach this course with the intention of formally presenting (e.g., professional conference) and/or publishing (e.g., professional publication) their research findings.

CSD 414**Three Credits****VOICE AND FLUENCY DISORDERS (FO)**

PREREQUISITES: CSD 116, 212, 320 (with grades of C or better).

Introduction to the etiological, evaluative or diagnostic, and therapeutic procedures used with persons with voice disorders and various types of verbal dysfluency behaviors.

CSD 415**Three Credits****CLINICAL PROCEDURES IN COMMUNICATION****SCIENCES AND DISORDERS (E)**

PREREQUISITES: CSD 116, 312, 311, and 313 (with grades of C or better)

Study of the philosophy underlying clinical procedures for speech- language pathology . Current methods used in speech-language pathology for observing communication behaviors, recording data, establishing effective reinforcement techniques, and therapeutic routines are explored. Students are expected to accumulate 15-20 hours of supervised clinical observations to satisfy the preliminary requirements for ASHA certification.

CSD 416**Three Credits****REHABILITATION OF HEARING DISORDERS (SO)**

PREREQUISITE: CSD 313 (with grades of C or better)

Current procedures in aural rehabilitation, including speech reading, hearing conservation, hearing aid selection and auditory training are studied for both the hard of hearing and deaf populations from both habilitative and rehabilitative perspectives. (web-based course.)

CSD 417**Three Credits****CLINICAL PRACTICUM IN COMMUNICATION SCIENCES****AND DISORDERS (E)**

PREREQUISITES: CSD 315, 414, and 415 (with grades of C or better)

Clinical Practicum provides majors who have satisfactorily completed all academic prerequisites experience in offering direct supervised clinical services to persons with speech, language and/or hearing disorders. These services are rendered primarily through the NSU Speech, Language and

Hearing Center located on campus, although external practicum experiences may also be available. Majors refine their therapeutic skills, as well as report writing skills for diagnostic reports, initial therapy plans, daily therapy plans, and progress reports. Interviewing and counseling procedures are reviewed. Students are expected to accumulate 20-30 hours of supervised clinical observations to satisfy the preliminary requirements for ASHA certification.

CSD 418**One Credit****SEMINAR TOPICS IN COMMUNICATION SCIENCES AND DISORDERS (E)**

PREREQUISITES: CSD 116 and 415 (with grades of C or better).

Seminars on subjects pertaining to current issues facing speech- language pathologists and/or audiologists are presented. Subjects for discussion and presentation are introduced through collaboration between students and instructors. (Web-based course.)

CSD 420**Three Credits****DIFFERENTIAL DIAGNOSTIC AUDIOLOGY (SO)**

PREREQUISITE: CSD 314

A comprehensive review of the hearing process in health and disease; the medical aspects of hearing impairment, techniques currently in use to evaluate hearing disorders, treatment and management of patients with advanced types and degrees of auditory pathology.

COMPUTER ENGINEERING**TECHNOLOGY (CET)****CET 204****Three Credits**

DIGITAL LOGIC (SO) PREREQUISITES: ELT 212, 212L

COREQUISITE: CIT 204L

Study of combinational logic and sequential logic. Combinational logic includes number systems, Boolean algebra, Karnaugh maps, truth tables, coding, switching circuits analysis and design; sequential logic portion includes flip flops, latches, sequential circuit analysis and design, counters, and shift registers.

CET 204L**One Credit****DIGITAL LOGIC LAB (SO)**

PREREQUISITES: ELT 212, 212L COREQUISITE: CIT 204

Practical experience in designing, building, and testing digital circuits and methods.

CET 304 **Three Credits**

DIGITAL SYSTEM DESIGN (SO)

PREREQUISITES: ELT 220, 220L

COREQUISITE: CIT 304L

Study of the building blocks of digital system design: encoders, decoders, comparators, multiplexers, demultiplexers, adders, subtractors, arithmetic logic unit, programmable logic devices and an introduction to microprocessors.

CET 304L **One Credit**

DIGITAL SYSTEM DESIGN (SO)

PREREQUISITES: ELT 220, 220L

COREQUISITE: CIT 304

Practical experience in building and testing digital systems and methods with emphasis on programmable logic devices, programming and introduction to microcontrollers.

CET 304 **Three Credits**

COMPUTER ORGANIZATION (FO)

PREREQUISITES: CSC 150; CIT 204, 204L

COREQUISITE: CIT 305L

A detailed study of microcomputer operating systems with emphasis on Windows; utility and diagnostic software; virus protection; preventive maintenance; data protection and recovery.

CET 305L **One Credit**

COMPUTER ORGANIZATION LAB (FO)

PREREQUISITES: CSC 150; CIT 204, 204L

COREQUISITE: CIT 305

Practical experience in UNIX commands, windows, utility and diagnostic software and data protection and recovery.

CET 315 **Three Credits**

MICROPROCESSORS (EE)

PREREQUISITES: CIT 304, 304L COREQUISITE: CIT 315L

This course is an introduction to the detailed knowledge of microcontroller peripherals and their use. The course makes use of the Microchip IDE (Integrated Development Environment) and the assembler to control complex systems.

CET 315L **One Credit**

MICROPROCESSOR LABORATORY (EE)

PREREQUISITE: CIT 304, CIT 304L

COREQUISITE: CIT 315

This course is the laboratory component of CIT 315 Microprocessors lecture. Students will perform laboratory exercises utilizing microcontrollers to perform assigned tasks.

CET 336 **Three Credits**

COMPUTER NETWORKS TECHNOLOGY (SO)

COREQUISITE: CIT 336L

The study of the hardware and software aspects of computer and communications networks, topics include cabling, local area networks (LANs) wide area networks (WANs), protocols, standards and the OSI reference model. The setup and programming of switches, routers (distance vector), security devices and other network devices is included.

CET 336L **One Credit**

COMPUTER NETWORKS TECHNOLOGY

LABORATORY(SO)

COREQUISITE: CIT 336

This course is the laboratory component of CIT 336 Computer Networks I lecture. Students will perform laboratory exercises on such topics as cabling programming network devices and setting up simple networks.

CET 432 **Three Credits**

COMPUTER INTERFACES AND PERIPHERAL DEVICES (FO)

PREREQUISITES: CIT 304, 304L, 315

COREQUISITE: CIT 432L

Study of computer interfaces and peripheral devices, the programming, operation, and interfacing of the microprocessor, which provide an understanding of applications such as control systems, video graphics, and utilizing the "C" programming language with emphasis on the Advanced Microprocessors.

CET 432L **One Credit**

COMPUTER INTERFACES LABORATORY (FO)

PREREQUISITES: CIT 315, 315L

COREQUISITE: CIT 432

Course consists of individual or small group projects of building a Microprocessor controlled projects.

CET 436 **Three Credits**

COMPUTER NETWORKS TECHNOLOGY II (FO)

PREREQUISITES: CIT 336, CIT 336L

COREQUISITE: CIT 436L

The study of advanced networking concepts. Topics include variable length, subnet masking, link state router protocols, Internet Protocol Version 6 (IPV6), Virtual Lans (VLANS), Asynchronous transfer mode (ATM), Virtual Private Networks, Security, Voice over Internet Protocol (VOIP) and optical networking.

PREREQUISITE: Any computer literacy course

CSC 200 **Three Credits**

ADVANCED COMPUTER CONCEPTS (E)

PREREQUISITE: Any computer literacy course

Advanced study of electronic research and presentations, utilizing the Internet and World Wide Web. Primary emphasis on E-Mail, Search Engines, News Groups, and Presentation Tools. Extensive laboratory assignments and hands-on exercises using the microcomputer laboratory are mandatory. A formal presentation using presentation tools is required.

CSC 251 **Four Credits**

INTERNETWORKING III (SI)

PREREQUISITE: CSC 152

Study of advanced IP addressing techniques (Variable Length Subnet Masking [VLSM]), intermediate routing protocols (RIP v2, single-area OSPF, EIGRP), command-line interface configuration of switches, Ethernet switching, Virtual LANs (VLANs), Spanning Tree Protocol (STP), and VLAN Trunking Protocol (VTP).

CSC 252 **Four Credits**

INTERNETWORKING IV (SI)

PREREQUISITE: CSC 251

Introduction to advanced IP addressing techniques (Network Address Translation [NAT], Port Address Translation [PAT], and DHCP), WAN technology and terminology, PPP, ISDN, DDR, Frame Relay, network management, and introduction to optical networking.

CSC 260 **Three Credits**

COMPUTER PROGRAMMING II (EE)

PREREQUISITE: CSC 170

Introduction to data structures, algorithms and building objects. Topics include linked lists, stacks and queues, recursion and binary trees.

CSC 260L **One Credit**

COMPUTER PROGRAMMING II LAB (EE)

PREREQUISITE: MTH 151

COREQUISITE: CSC 260

Supplementary course to CSC 260 structured as a closed computer laboratory to complete specific programming tasks within a fixed time.

CSC 268 **Three Credits**

COMPUTER ORGANIZATION (EE)

PREREQUISITE: CSC 170

Fundamentals of the architecture and operation of modern computers. Computer arithmetic: binary, hexadecimal and decimal number conversions, binary number arithmetic and IEEE binary floating point number standard. Basic computer logic: gates, combinational circuits, sequential circuits, adders, ALU, SRAM and DRAM. Basic assembly language programming, basic Instruction Set Architecture (ISA), and the design of single cycle CPU. The MIPS based computers are used as example architecture, and alternative architectures are also discussed.

CSC 270 **Three Credits**

DISCRETE STRUCTURES (SI)

PREREQUISITE: CSC 260; MTH 251

Introduction to the areas of discrete mathematics that are important for computer science. Topics include logic, sets, functions, relations, algorithms, counting methods, and graph theory.

CSC 275 **Three Credits**

FUNDAMENTALS OF CYBERSECURITY (SO)

PREREQUISITE: CSC 260

This course is designed for IT professionals to learn computer and network security theories and practices that can be used to significantly reduce the security vulnerability of computers on internal networks or the Internet. The course assumes some familiarity with various operating systems and computer networks. Topics include cryptography, program security, operating systems security, database security, network security, security administration, computer ethics, and legal issues, and administer these network services in both Windows and Linux/Solaris environments.

CSC 292 **Three Credits**

UNIX AND C PROGRAMMING (SO)

PREREQUISITE: CSC 260

Introduction to C programming in a UNIX environment, including the UNIX command interpreter, Shell; how Shell scripts can be used as powerful tools and applications and the development of application and systems programs using C.

CSC 295 **Three Credits**

JAVA APPLICATIONS PROGRAMMING (SO)

PREREQUISITE: CSC 260

Introduction to the core JAVA language with emphasis on applications development using the latest JAVA class libraries such as Swing, JavaBeans, Java2D, Java3D. This course is designed for students who are familiar with object-oriented programming in C++ and the fundamentals of the World Wide Web.

CSC 312 **Three Credits**

TOPICS IN INFORMATION TECHNOLOGY (SI)

PREREQUISITE: CSC 311

Advanced Information Technology topics not generally covered in the curriculum. Designed as a Computer Science Applied Computing elective, not as a replacement for any specific required course. Course topic and syllabus must be approved by Department Head.

CSC 313 **Three Credits**

NETWORK ADMINISTRATION (SO)

PREREQUISITE: ITE 311

This is an intermediate-level course for students who are interested in Networking. This course is designed to provide students with essential knowledge and skills that an effective

network administrator must possess. It provides an overview of the essential TCP/IP protocols, and discusses how to properly configure and manage the network services based on these protocols (including DNS, DHCP, AD/LDAP directory services, print and file servers, NFS/NIS, and routing services). It also has a hands-on lab component for students to learn how to setup, configure, troubleshoot, and administer these network services in both Windows and Linux/Solaris environments.

CSC 314 **Three Credits**

ADVANCED INTERNET PROGRAMMING (SI)

PREREQUISITES: CSC 195 and CSC 260

A second Internet programming course concentrating on advanced Internet application development. Creation of relatively sophisticated web pages and application that allow interactions between web page users and the web page as well as network programming, JSP, JDBC, XML processing are the main focus of the course. Different Internet programming language and tools will also be included.

CSC 360 **Three Credits**

INTERFACE DESIGN AND IMPLEMENTATION (SO)

PREREQUISITE: CSC 260

Introduction to the techniques used for designing, implementing, and testing human/computer interfaces, including methods of user-centered interface design, implementing user interfaces, techniques and tools for event driven programming, testing and evaluation of user interfaces.

CSC 361 **Three Credits**

SURVEY OF PROGRAMMING LANGUAGES (SO)

PREREQUISITE: CSC 260

Survey of programming languages such as FORTRAN, PL/1, AGOL, Pascal, APL, SNOBOL, Ada, Prolog, C, and LISP with emphasis on data structures and storage, control structures, execution environment, input/output, and the syntax and semantics of the languages.

CSC 369 **Three Credits**

THEORY OF COMPUTATION (SI)

PREREQUISITE: CSC 270

Introduction to sequential machines, finite state automata, formal languages and turning machines, computable, and non-computable functions.

CSC 372 **Three Credits**

DATA STRUCTURES (EE)

PREREQUISITE: CSC 260

Analysis of data structures and algorithms using C++ as the implementation language. Detailed examination of lists, heaps, trees, graphs, file structures, and the use of formal methods with emphasis on the development and analysis of efficient algorithms.

CSC 373 **Three Credits**

ALGORITHMS DESIGN & ANALYSIS (SO)

PREREQUISITE: 372

This course focuses on the practical applications of computer algorithm design and analysis, emphasizing correctness and efficiency. Well-known data structures, problem-solving paradigms and algorithms are explored to illustrate alternative ways to develop solutions, to argue the correctness of implementations, and to recognized opportunities to attain greater efficiencies versus naive approaches.

CSC 380 **Three Credits**

SOFTWARE ENGINEERING (SO)

PREREQUISITE: CSC 260

Introduction to the design of software projects with the analysis, design, implementation, testing and maintenance of the software life cycle with emphasis on significant and varied writing components, including group projects paralleling realistic software development projects.

CSC 411 **Three Credits**

WEB SERVER ADMINISTRATION (SI)

PREREQUISITE: CSC 313

An introductory course providing individuals with the core skills needed to meet the demands of the Web development and Internet community. The three key skill areas focused in this course are Web management, content management, and technical management.

CSC 420/ 521 **Three Credits**

DATA BASE PRINCIPLES AND DESIGN (SO)

PREREQUISITE: CSC 260

An introductory course emphasizing the basic concepts and principles of database systems. Topics include introduction to database systems and databases, different database system models, basic systems and language support for database systems; relational modes, relational Algebra and introduction to relational database design as well as overview of common database system issues.

CSC 422 **Three Credits**

DATABASE IMPLEMENTATION (FO)

PREREQUISITES: CSC 372, CSC 292, CSC 420

Introduction to database design methodology and tools, designing and building of forms and reports, database programming using embedded SQL, Internet/Web database and database administration.

CSC 430/ 530 **Three Credits**

DATA COMMUNICATIONS (FO)

PREREQUISITE: CSC 372

Study of principles of computer communication as well as hardware and software designs, including transmission media, data encoding, transmission techniques, protocols, switching networks, broadcast networks, and local area networks.

CSC 432 **Three Credits**

WIRELESS DATA NETWORKING (FO)

PREREQUISITE: CSC 260

An introduction to various wireless data network standards at a technical level. Emphasis will be on learning wireless network architectures for wireless LANs, wireless PANs, broadband wireless access (BWA) and cellular data networks (3G and beyond).

CSC 435/535 **Three Credits**

COMPUTER SECURITY I (FO)

PREREQUISITE: Permission of Instructor

Introduction to Information Assurance concepts, in addition to logging, encryption and decryption, effects on operating systems and machine architecture, countermeasures, risk analysis, security administration, legality and ethics, and computer forensics.

CSC 445 **Three Credits**

COMPUTER NETWORK DEFENSE (FO)

PREREQUISITE: CSC 260 or Permission of Instructor

Students will have hands-on analysis of defending computer networks against the common methods and tools used to harm them. Topics covered include the weaknesses of current network topologies, passive and active information gathering and common attack methods including viruses, worms, denial of service attacks, e-mail bombs, and buffer overflow attacks. Ethics and legal implications are also discussed.

CSC 449 **Three Credits**

CRYPTOGRAPHY & NETWORK SECURITY (SO)

PREREQUISITE: CSC 430

The course introduces the principles of number theory and the practice of network security and cryptographic algorithms. Topics include: number theory, cryptography, key management, network security, web security and protocols for secure electronic commerce.

CSC 450 **Three Credits**

ELECTRONIC PUBLISHING (SI)

PREREQUISITES: CSC 192, 260

Survey of information published via electronic means. Electronic publishing is an interdisciplinary field and many technologies are integrated, including Internet and document standards.

CSC 464/ 564 **Three Credits**

OPERATING SYSTEMS (FO)

PREREQUISITE: CSC 372

Introduction to the history and evolution of operating systems, the concepts behind and structure of various operating systems, process scheduling, interprocess communication, input and output, multiprogramming, memory management and file systems. Concepts of distributed operating systems are also introduced.

CSC 466/ 566, 467/ 567 **Three Credits**

ADVANCED COMPUTER TOPICS I and II (SI)

PREREQUISITE: Consent of the Instructor

Elective course for Computer Science

CSC 468 **Three Credits**

COMPUTER ARCHITECTURE (EE)

PREREQUISITE: CSC 268

Study of computer organization and architecture that deals with processors, their architectures, memory, input, output, the micro architectural level, instruction set architectural level and the operating system machine level.

CSC 470/ 570 **Three Credits**

ARTIFICIAL INTELLIGENCE (FO)

PREREQUISITE: CSC 372

In-depth study of concepts and problem solving techniques of artificial intelligence, including knowledge representation, functional and logic programming, machine learning, natural language understanding, computer vision, robotics, and societal impact.

CSC 471 **Three Credits**

INTRODUCTION TO GAME DESIGN & DEVELOPMENT (E)

PREREQUISITE: None

This course introduces students to game design and development concepts. Topics include the history of games, genres, play elements, story and character development, game play and storyboard design, level and user interface design, and the game design document.

CSC 472 **Three Credits**

3D GAME PROGRAMMING (E)

PREREQUISITE: CSC 471

This is a project-oriented course on 3D Game Programming. Students will work in teams to design, implement and test a three-dimensional game with interactivity, game state diagrams, animation, sound, and constraints. Students will also learn the basics of graphic design and animation.

CSC 476/576, 477/577 **Three Credits**

ADVANCED COMPUTER TOPICS III and IV (SI)

PREREQUISITE: Consent of the Instructor

Advanced computer topics not generally covered in the curriculum. Designed as a Computer Science elective, not as a replacement for any specific required course.

CSC 480/ 580 **Three Credits**

COMPUTER GRAPHICS (SO)

PREREQUISITE: CSC 372

Study of interactive computer graphics hardware and software: display devices, 2D and 3D geometric transformations, raster algorithms, representation of curves and surfaces, hidden line removal and surfaces, shading algorithms, and color graphics.

CSC 480/ 580

Three Credits

COMPUTER GRAPHICS (SO)

PREREQUISITE: CSC 372

Study of interactive computer graphics hardware and software: display devices, 2D and 3D geometric transformations, raster algorithms, representation of curves and surfaces, hidden line removal and surfaces, shading algorithms, and color graphics.

CSC 485

Three Credits

SOFTWARE QUALITY ASSURANCE & TESTING (EE)

PREREQUISITE: CSC 295, CSC 372, CSC 380

This course is an introduction to concepts and techniques for testing and modifying newly developed and evolving software applications. Emphasis is placed on quantitative and practical software that can be applied within phases of the software development life cycle (SDLC). Topics include testing techniques (test first development, graph coverage and criteria, logic based and syntax-based techniques), automatic and manual testing, testing measurability, design of test plans, and validation of software changes.

CSC 486

Three Credits

SOFTWARE PROJECT MANAGEMENT (E)

PREREQUISITE: CSC 380

This course introduces the student to the different aspects of software project management. It will emphasize the main activities and techniques that characterize the development of a software product cover the project management body of knowledge (PMBOK): The main knowledge areas are covered, including scope, time, cost, team, risk and communication management while focusing on software development. Agile Management (e.g. SCRUM) and other emerging practices will be covered.

CSC 487

Three Credits

ENGINEERING SECURE SOFTWARE SYSTEMS (FO)

PREREQUISITE: CSC 380

This is a required course in the BS in Computer Science - Software Engineering Track (BS.CSC.SET) and an elective in the BS in Computer Science (BS.CSC) program. It explores the foundations of software security, considering important software vulnerabilities.

CSC 488

Three Credits

PRINCIPLES OF DISTRIBUTED SOFTWARE SYSTEMS (EE)

PREREQUISITE: CSC 373, CSC 430, CSC 464

COREQUISITE: CSC 430, CSC 464

Parallel and Distributed Software Computing deals with the use of large scale computing platforms including desktop multicore processors. SMPs, message passing platforms, and virtualized cloud computing environments. The course consists of topics on parallel and distributed programming, platforms, algorithms and applications. Design and implementation of distributed software components include process and memory management underlying software applications, sockets, protocols, threads, XML, serialization, reflection, security, and events.

CSC 492

Three Credits

INDEPENDENT STUDY (E)

PREREQUISITE: Consent of the Instructor

Supervised independent project designed to explore a single topic in a one-to-one learning relationship with a faculty member.

CSC 493/ 593

Three Credits

SYSTEMS PROGRAMMING (SO)

PREREQUISITE: CSC 464/ 564

Fundamentals of system and network programming methodology, techniques, system calls and library calls.

CSC 494

Three Credits

DIGITAL FORENSICS (SO)

PREREQUISITE: CSC 275

This course focuses on practical applications of Information Assurance (IA) policies and technologies in enterprise network environments. The course will include lecture and demonstrations, but is designed around a virtual lab environment and scenario that provides for robust and realistic hands-on experiences in dealing with a range of information assurance topic areas. Students will be provided numerous practical opportunities to apply information security practices and technologies to solve real-world IA problems.

CSC 496/ 596

Three Credits

COMPILER CONSTRUCTION (SI)

PREREQUISITE: CSC 372

An introduction to the fundamentals of compiler construction and language translation. Topics include lexical analysis, specifications of syntax, algorithms for syntactic analysis, code generation, and optimization techniques.

CSC 498

Two Credits

COMPUTER SCIENCE SEMINAR I (EE)

PREREQUISITES: CSC 380

Culminating course designed to synthesize computer science knowledge and experiences through participation in a research project of the student's choice. Results of the research are presented to peers and other interested members of the computer science community.

CSC 499

Two Credits

COMPUTER SCIENCE SEMINAR II (EE)

PREREQUISITES: CSC 380

Culminating course designed to synthesize computer science knowledge and experiences through participation in a research project of the student's choice. Results of the research are presented to peers and other interested members of the computer science community.

COOPERATIVE EDUCATION (CED)

CED 250

One Credit

CAREER DEVELOPMENT AND LEADERSHIP SEMINAR (EE)

Study of resume writing, interviewing, goal setting (Visioning), leadership and job search strategies for internship, co-op and permanent placement. Upon completion, the student is equipped with all the necessary tools required to obtain professional and personal success.

CED 350

Three Credits

COOPERATIVE EDUCATION (ACTUAL CO-OP ASSIGNMENT) (E)

Required for all students who have secured a cooperative work assignment through the Career Services/Cooperative Education office, their department, or on their own. The student must register for this course and go to the Career Services/Cooperative Education office to complete the appropriate forms. At this time, the student receives the criteria that must be met to receive academic credit.

CED 450

Three Credits

COOPERATIVE EDUCATION (ACTUAL CO-OP ASSIGNMENT) (E)

Required for all students doing their second co-op assignment. Continuation of the previous assignment or a more advanced work experience. The student must also register for this course and go to the Cooperative Education office to complete the appropriate forms. At this time, the student receives the criteria that must be met to receive academic credit.

CRIMINAL JUSTICE (CJS)

CJS 200

Three Credits

INTRODUCTION TO CRIMINAL JUSTICE

Study of systematic analysis of the functions of the police, courts, and corrections in dealing with lawbreakers with emphasis on basic theories and empirical research findings.

CJS 220

Three Credits

JUVENILE DELINQUENCY

Systematic analysis of juvenile delinquency as a major social problem in American society with emphasis on the prevention and control of delinquency, the cause of delinquency, and the treatment of juveniles in the juvenile justice system. Introduces and analyzes classical works and empirical findings.

CJS 225

Three Credits

LAW ENFORCEMENT

Focuses on the police as an official societal agency of social control. Provides understanding of the role of the police in reducing and promoting crime. Surveys the organization of police departments, as well as the recruitment and socialization of police officers.

CJS 230

Three Credits

INTRODUCTION TO CORRECTIONS

Examines various attempts to control crime and delinquency by diverting the potential and actual offender into law-abiding activities.

Provides a better understanding of contemporary correctional activities in the United States through historical and cross-cultural information about formal and informal, legal and extralegal, and institutional and community-based programs.

CJS 310

Three Credits

CRIMINOLOGY

Focuses on the scientific study of criminal behavior in contemporary industrial urban societies. Systematic attention is given to social, economic, and cultural factors associated with the causes of crime, prevention and control of crimes, and treatment of criminals. Presents a systematic analysis of classical theories, innovative strategies, and empirical studies.

CJS 313

Three Credits

AMERICAN COURT SYSTEMS

Introduction to the operation of the judicial court system with emphasis on the police, agents of the Federal Bureau of Investigation, the Treasury Department, and other agencies, the prosecutor, the courts, and institutions, special treatment programs, and probation and parole offices. Analysis of problems in the administration of justice, such as overcrowding, delays, discrimination, and the role of negotiations in the sentencing process.

CJS 315**Three Credits****SOCIOLOGY OF DRUG USAGE**

Examines facts and theories of drug usage in different cultures, focuses primary attention on contemporary United States. Includes medical aspects of different kinds of drugs and physiological effects; legal aspects of the origins of criminal drug laws and the consequences of drug use; epidemiological aspects of the sociopsychological factors as to why persons use and abuse drugs; and control aspects including prevention and rehabilitation programs.

CJS 340**Three Credits****CYBERCRIME (SI)**

The purpose of this course is to introduce students to the criminal justice aspects of cybersecrity. The course will examine theoretical frameworks and methods of investigation. This 300-level Cybercrime course offers students studying criminal justice and understanding of the new frontier in which cyber-victims and cyber-perpetrators exist.

CJS 492**Three Credits****TOPICS IN CRIMINAL JUSTICE**

PREREQUISITE: Senior Standing and Consent of Instructor

Introduction to a contemporary criminal justice subject with emphasis on a specific criminal justice issue or a combination of issues in greater depth.

Systematic analysis of juvenile delinquency as a major social problem in American society with emphasis on the prevention and control of delinquency, the cause of delinquency, and the treatment of juveniles in the juvenile justice system. Introduces and analyzes classical works and empirical findings.

**DESIGN TECHNOLOGY -
MECHANICAL (TMD)****TMD 150****Three Credits****ENGINEERING GRAPHICS (EE)**

Introduction to theories of projection and the concepts of engineering drawing, including geometric construction, multi-view drawing, auxiliary views as well as techniques of lettering and sketching. Hands-on sessions provide practice to reinforce the concepts and to provide practical experience. A fresh perspective on using AutoCAD in also introduced.

TMD 151**Three Credits****INTRODUCTION TO CAD (EE)**

PREREQUISITE: TMD 150

Awareness of computers in engineering design and problem solving, with emphasis on AutoCAD program on microcomputers for engineering graphics at a beginning level of design. Hands-on sessions using personal computers will provide practice to reinforce the concepts and to provide practical experience.

TMD 225**Three Credits****MECHANICS I: STATICS**

PREREQUISITE: MTH 153

Develops analytic abilities of various types of force acting on a rigid body at rest with emphasis on systems using algebra and trigonometry, including vectors, couples, equilibrium, centroids, moments, friction and moments of inertia.

TMD 227**Three Credits****DYNAMICS**

PREREQUISITE: MTH 184

Introduction to a vector treatment of the kinematics and laws of motion of particles and rigid bodies, including acceleration, momentum, work, energy and power.

TMD 251**Three Credits****ADVANCED CAD**

PREREQUISITE: TMD 151

Advanced aspects of CAD using AutoCAD, to produce engineering drawing 2D architecture and mechanical drawings. Special emphasis is placed on 3-D techniques, solid modeling, and rendering. Hands-on sessions using personal computers will provide practice to reinforce the concepts and to provide practice to reinforce the concepts and to provide practical experience.

TMD 252**Three Credits****TOOL DESIGN**

PREREQUISITE: TMD 225

Study of function of a manufacturing environment to design production tools such as fixtures, gauges, dies, and clamping devices. Use of microcomputer provides experience in computer-aided design and other types of software for engineering problem solving.

TMD 345**Three Credits****MECHANICS II: STRENGTH OF MATERIALS**

PREREQUISITE: TMD 225 COREQUISITE: TMD 345L

Study of behavior of materials when subjected to different loadings and constraints, and the prediction of material behavior in various applications. It covers stress, strain, mechanical properties of materials, axial torsion, bending and shears. Beams, shafts and columns are studied.

TMD 345L**One Credit****MECHANICS II LAB: PROPERTIES OF MATERIALS**

PREREQUISITE: TMD 225

COREQUISITE: TMD 345

Experimentation with properties of materials, fabrication characteristics, testing, and inspection. (Meets 2 hrs. per week.) It will acquaint students with techniques of testing materials, making accurate observations of phenomena and correct interpretations of results.

TMD 348

Three Credits

FLUID MECHANICS

PREREQUISITE: MTH 184

Introduction to the principles of hydraulics, fluid properties, hydrodynamics, and methods of fluid circuit analysis with applications directed toward various piping systems. Study of the principles for compressible flows, ideal gas, real gas, nozzle design and kinetic theory.

TMD 355

Three Credits

MACHINE DESIGN

PREREQUISITE: TMD 345

Study of designing screws, fasteners, joints, springs, bearings, and rigid machine components.

TMD 380

Three Credits

MATERIALS SCIENCE

PREREQUISITE: TMD 145 or Equivalent

Investigation of physics and chemistry of materials as related to their properties and process ability. Incorporates the study of metallurgy, polymers, composites, ceramics, and materials evaluation. Basic competencies developed in use of laboratory equipment used to evaluate structure, properties, and processing of engineering materials.

TMD 448

Three Credits

THERMODYNAMICS

PREREQUISITE: MTH 184

Study of working ability with first and second laws of thermodynamics, including working fluids and heat engines' cycles.

TMD 450

Three Credits

INSTRUMENTATION

Introduction to a familiarity with the latest developments in measurement, control, calibrations and analysis of instrumentation from basic theory to its applications, with emphasis on operation, procedure, and principles.

TMD 455

Three Credits

MECHANICAL DESIGN

PREREQUISITE: TMD 355

Study of design and selection of beams, gears, clutches, brakes, couplings, flexible mechanical elements, including utilization of basic concepts of kinematics.

TMD 470

Three Credits

SPECIAL PROBLEMS

Individual problem solving of special problems relating to design, electromechanical and manufacturing technology.

DRAMA (DRM)

DRM 113

Three Credits

THEATRE MOVEMENT I

Development of performer's physical conditioning and awareness of expressive artistic movement.

DRM 114

Three Credits

INTRODUCTION TO THEATRE

Survey of theatrical forms, techniques, and practices. Reading of selected plays. Attendance at Norfolk State University Theatre Company productions required. Lab included.

DRM 115

Three Credits

DRAMATIC THEORY AND CRITICISM

Major critical theories from Aristotle to present.

DRM 120

Three Credits

STAGECRAFT I

Study of practical and theoretical knowledge of scenery, lighting, and sound design for the Theatre. Lab included.

DRM 123

Three Credits

THEORY AND TECHNIQUES OF ACTING

Study of actor's resources, including body, mind, and voice. Emphasis on Aristotle's elements of plot, character, diction, thought, rhythm, and spectacle. Focus on play analysis, study of stage practices, gestures, movements, timing, pointing a line, sustaining, and effective characterizations.

DRM 200

Three Credits

INTERMEDIATE ACTING PREREQUISITE: DRM 123

Study of the physical and vocal demands involved in the creation of a role for the stage.

DRM 212

Three Credits

IMPROVISATION FOR THE THEATRE

Development of the performer by encouraging spontaneity, including group ensemble work through improvisation.

DRM 213

Three Credits

THEATRE MOVEMENT II

Study of the physical demands involved in various acting styles. Emphasis on movements for classical acting style.

DRM 217

Three Credits

MODERN DRAMA

Detailed study of the plays, playwrights, and dramatic movements of the last decade.

DRM 219 **Three Credits**
AFRICAN-AMERICAN DRAMA
Study of major African-American, African, and Caribbean playwrights and their plays.

DRM 220 **Three Credits**
STAGECRAFT II
PREREQUISITE: DRM 120

In-depth studies of technical direction, carpentry, lighting, properties, sound, welding, and special effects. Advanced study of technical theatre.

DRM 226 **Three Credits**
CHILDREN'S THEATRE

Study of theories and methods of children's theatre with concentration on educational goals. Survey of literature and production techniques. Practical work in production of Children's Theatre.

DRM 238 **Three Credits**
STAGE MANAGEMENT

Study of guidelines and practical techniques for effective stage management. Emphasis on the planning, staging, rehearsing, and performing process. Study of Actor's Equity Standards.

DRM 240 **Three Credits**
THEATRE MANAGEMENT

Study of principles and techniques of organizing and managing theatre production programs in educational, community, and commercial settings.

DRM 310 **Three Credits**
STAGE MAKE-UP

Study of stage make-up techniques/designs, practices and equipment. Demonstration of make-up design for an experimental production required.

DRM 315 **Three Credits**
HISTORY OF THEATRE I
Study of history of the theatre from beginning to 1650.

DRM 316 **Three Credits**
HISTORY OF THEATRE II PREREQUISITE: DRM 315

Study of history of theatre in Europe and America 1650 to the present.

DRM 320 **Three Credits**
LIGHTING DESIGN
Emphasis on sources and control of light, equipment, and light design.

DRM 321 **Three Credits**
SCENERY DESIGN
PREREQUISITE: DRM 120

Experience with floor plans, elevations, models, and perspective designs for theatrical events. Lab included.

DRM 324 **Three Credits**
ADVANCED ACTING THEORY
PREREQUISITE: DRM 200

Focus on acting, theories, advanced techniques in acting, and styles of acting.

DRM 325 **Three Credits**
REHEARSAL & PERFORMANCE I

Student participation as actor, designer or technician in mainstage or studio productions.

DRM 328 **Three Credits**
CONTEMPORARY DRAMA
Detailed study of the plays, playwrights, and dramatic movements of the post-World War II period.

DRM 400 **Three Credits**
COSTUME HISTORY

Study of costume history of Egyptian to modern times. Emphasis on design and construction of costumes for shows. Lab included.

DRM 410 **Three Credits**
COSTUME DESIGN

Study of elements of design in relationship to the planning and constructing of production design concepts. Lab included.

DRM 413 **Three Credits**
SHAKESPEARE FOR THE STAGE

PREREQUISITES: DRM 200, ENG 413

Focus on acting, theories, and advanced techniques in performing Shakespearean text.

DRM 415 **Three Credits**
THEATRE DESIGN WITH COMPUTER
PREREQUISITES: DRM 320/321

Study of computer aided drafting and design specifically aimed at the theatre. Emphasis on a series of projects in research, analysis, and drafting on the computer.

DRM 420 **Three Credits**
PLAY PRODUCTION

Study of the process of mounting a play for public performance.

DRM 424 **Three Credits**
REHEARSAL & PERFORMANCE II

Student participation as actor, designer or technician in mainstage or studio productions.

DRM 425 **Three Credits**
DIRECTION OF PLAYS

Emphasis on the origin and development of play direction, basic principles of composition, picturization, movement, rhythm, and pantomimic dramatization. Experience in directing a laboratory production.

DRM 426**Three Credits****SPECIAL PROJECT IN THEATRE I**

The practical application course designed to explore theatre concepts within a group setting and involving an exchange of ideas and practical methods, skills, and principles.

DRM 427**Three Credits****SPECIAL PROJECT IN THEATRE II**

PREREQUISITE: DRM 426

The practical application course designed to explore theatre concepts in a solo performance setting.

DRM 430**Three Credits****PLAYWRITING**

Script development with emphasis on material, characters, conflict, unity, dramatic action, suspense, and dialogue in relationship to plot, character, thought, diction, music, and spectacle.

DRM 435**Three Credits****ADVANCED TECHNICAL THEATRE**

Advanced design theory and stage practice. Design of stage lighting, scenery, and sound.

DRM 436**Three Credits****SOUND DESIGN**

Exploration of sound equipment: principles, practices, and uses as applied to today's theatre. A series of projects in recording, mixing, editing, and analysis.

DRM 450**Three Credits****RESEARCH SEMINAR**

Research course in which each student completes an independent research project on some aspect of the theatre, such as a playwright, a theatrical movement, or a historical period.

DRM 491**Three Credits****DRAMA INTERNSHIP**

Provides students with the opportunity to earn academic credit for an approved theatre internship.

DRM 450**Three Credits****RESEARCH SEMINAR**

Research course in which each student completes an independent research project on some aspect of the theatre, such as a playwright, a theatrical movement, or a historical period.

DRM 491**Three Credits****DRAMA INTERNSHIP**

Provides students with the opportunity to earn academic credit for an approved theatre internship.

ECONOMICS (ECN)**ECN 200****Three Credits****BASIC PRINCIPLES OF ECONOMICS (E)**

This course offers in one semester the core concepts of both branches of Economics: Microeconomics and Macroeconomics. The main objective is to provide students a strong foundation in the basic theories and applications of Economics that would enable them to understand and analyze, on the one hand, the behaviors of individual participants (consumers and producers); and on the other hand, the behavior of the economy as a whole and its basic subdivisions, namely, the household sector, the business sector, and the public sector. The microeconomic course content includes: the concepts of scarcity and opportunity costs, marginal analysis and economic efficiency, the laws of demand and supply, consumer behavior and utility maximization, technology, production, and costs, market models (especially, pure competition, pure monopoly), the law of comparative advantage and international trade. The macroeconomic course content covers: measuring the gross domestic product of a nation's economy, economic growth, economic instabilities (unemployment and inflation), fiscal policy, money and banking, the Federal Reserve System, the aggregate demand and supply, the interest rate and monetary policy. ECN 200 cannot be used as a substitute for ECN 211 or ECN 212.

ECN 211**Three Credits****PRINCIPLES OF MICROECONOMICS (E)**

PREREQUISITE: Sophomore Standing

Introduction to microeconomic principles relative to an economic system including supply and demand analysis; types of business organizations; theories of the firm and market models; resource allocation, and factorial distribution.

ECN 212**Three Credits****PRINCIPLES OF MACROECONOMICS (E)**

PREREQUISITE: Sophomore Standing

Introduction to macroeconomic principles relative to an economic system, including economic functions of households, business and government; national income accounting; business cycles; monetary and fiscal institutions and policy as they apply to national economic growth, stabilization goals, and international trade.

EDUCATION (EDU)

EDU 201 Three Credits

FOUNDATIONS OF EDUCATION

PREREQUISITE: None

This course concentrates on issues facing American education today. It is an interdisciplinary attempt (incorporating the historical, political, economic, legal, social, philosophical, and curricular foundations) to provide pre-service teacher candidates with a clear understanding of the profession and the issues and controversies confronting American education today.

EDU 202 Three Credits

HUMAN GROWTH & DEVELOPMENT

PREREQUISITE: None

This course is designed to analyze the nature and range of human characteristics through

EDU 381 Three Credits

CLASSROOM AND BEHAVIOR MANAGEMENT

PREREQUISITE: None

Skills in this area contribute to an understanding and application of classroom behavior and management techniques and individual interventions, including techniques that promote emotional well-being and teach and maintain behavioral conduct and skills consistent with norms, standards, and rules of the educational environment. This area addresses diverse approaches based upon behavioral, cognitive, affective, social, and ecological theory and practice.

EDU 486 Three Credits

HUMAN GROWTH AND DEVELOPMENT

PREREQUISITE: NONE

This course explores human development across the life span from a cross-cultural perspective. With an emphasis on cultural influence, key developmental topics such as adolescence, stages of adulthood, and aging are examined, along with special issues related to human growth and development.

EDU 202 Three Credits

HUMAN GROWTH AND DEVELOPMENT (EE)

PREREQUISITE: None

This course is designed to analyze the nature and range of human characteristics through the study of principles and procedures in evaluating student growth in skills, attitudes and understanding. Participants will conduct in-depth study into moral development, values clarification, and perceptual and cognitive factors in learning and reading. Emphasis is placed on the application of these theories and principles to develop curricula and validate program in urban education.

EDU 381 Three Credits

CLASSROOM BEHAVIOR MANAGEMENT (EE)

PREREQUISITE: Junior or Senior status

This course will promote an understanding and application of classroom and behavior management techniques including discipline-specific methodology and individual interventions as well as classroom management techniques designed to maintain decorum in the classroom and enhance learning in the PK-12 settings.

Emphasis will be placed on teaching strategies using structured lesson plans to help minimize opportunities for behavioral issues. The link between classroom management and student's ages will be studied and demonstrated in classroom techniques used to enhance effective classroom and behavior management. The course will address diverse approaches based upon behavioral, cognitive, affective, social and ecological theory and practice. Approaches are intended to support professionally appropriate practices leading to positive redirection of behavior, development of social skills, and of self-discipline.

EDU 420 Three Credits

EDUCATION TECHNOLOGY (FO)

PREREQUISITE: Admission into Teacher Education

This course is designed to broaden student's ability to effectively integrate technology in the K-12 setting. Furthermore, this course will focus on instructional strategies to supplement instruction through technology design and assistive technologies to increase student achievement. Students will investigate the use of computer-based technologies, technology tools and best-practices with technology to improve the teaching and learning process.

EDU 499 Twelve Credits

DIRECTED TEACHING and SEMINAR (EE)

PREREQUISITE: Acceptance to Student Teaching

This program is designed to provide two supervised experiences at two levels, PK-3 and 4-6, and for SPE K-12 elementary level and secondary level placements during which the prospective teacher of grades PK-6 takes gradual responsibility for a group of pupils for a specified period of time. The teacher is observed by a university supervisor a minimum of three during each experience. This sixteen week practicum/student teaching experience including a one week observation is a mandatory requirement of the program.

ELECTRICAL AND ELECTRONICS ENGINEERING (EEE)

EEE 100 **Three Credits**

INTRODUCTION TO ENGINEERING (FO)

The Introduction to Engineering course is an activity-based course with a number of life skills exercises, and hands-on activities integrated into the lectures. The intent of this course is to familiarize students with many of the skills that engineers must perform on a daily basis in the workplace with emphasis on engineering ethics and introductory concepts in electronics and optical engineering.

EEE 101 **Two Credits**

ENGINEERING PROBLEM SOLVING (SO)

This course will provide an overview of the salient math topics most heavily used in the core sophomore-level engineering courses.

EEE 201 **Three Credits**

ELECTRICAL NETWORK THEORY I (FO)

PREREQUISITE: PHY 161, PHY 161L, MTH 251

COREQUISITE: EEE 201L

This course is an introduction to the basic principles on DC electrical circuit theory for electronics engineering and technology majors. The focus of the course is the study of methods for analyzing resistive circuits. Circuits incorporating independent and dependent energy sources are studied. Methods covered include: Ohm's Law, Kirchhoff's Laws, nodal analysis, loop analysis, superposition, Thevenin's Theorem, Norton's Theorem, and the maximum power transfer principle. Computer software tools such as MATLAB and MultiSim will be introduced.

EEE 201L **One Credit**

ELECTRICAL NETWORK THEORY I LABORATORY (FO)

COREQUISITE: EEE 201

This course provides hands-on experience in constructing, troubleshooting, and testing simple DC electrical circuits. The student experiences circuit theory in action by performing a series of increasingly difficult experiments. Basic instruments, such as the digital multimeter, DC power supply, and laboratory breadboard are introduced and utilized.

EEE 202 **Three Credits**

ELECTRICAL NETWORK THEORY II (SO)

PREREQUISITE: EEE 201, EEE 201L

COREQUISITE: EEE 202L

This is the second course in electrical circuit theory for electronics engineering and technology majors. The course provides the student with an understanding of advanced electrical circuit concepts. The following topics are studied: capacitors, inductors, first and second order transient circuits, AC circuit analysis, and power analysis.

EEE 202L **One Credit**

ELECTRICAL NETWORK THEORY II LABORATORY (SO)

COREQUISITE: EEE 202

This is the laboratory that accompanies EEE 202 Electrical Networks Theory II. This course provides the student with hands-on experience with advanced electrical circuit components, measurement techniques, and data collection. The student will construct advanced electrical circuits that illustrate principles covered in the lecture. To successfully complete the course, the student will be required to perform a series of experiments of increasing difficulty. A formal report is required for each experiment.

EEE 203 **Three Credits**

ELECTRONIC PRINCIPLES (SO)

PREREQUISITE: EEE 201

This is the second electronics engineering course for Optical Engineering majors. This course provides the student with advanced concepts of circuit theory as well as an introduction to electron devices. The topics covered include first and second order transient circuits, AC circuit analysis, diodes, transistors, and operational amplifier. Computer modeling of electronic circuits will be introduced.

EEE 211 **Three Credits**

MATERIALS SCIENCE AND ENGINEERING (SO)

PREREQUISITE: CHM 221 or CHM 210

This course introduces students in the optical and electronics engineering programs to concepts that are necessary to understand important ideas in materials science and engineering. Also, this course relates these concepts to engineering design and manufacturing of electronic and photonic devices.

EEE 231 Three Credits

DIGITAL LOGIC DESIGN (SO)

PREREQUISITES: EEE 201, EEE 201L

This course involves the study of number systems, binary arithmetic and codes, Boolean algebraic simplification, Karnaugh Maps, and flip-flops. The design and analysis of synchronous and asynchronous sequential circuits, counters, and shift registers are also studied.

EEE 301 **Three Credits**

ELECTRONIC DEVICES (FO)

PREREQUISITE: EEE 202, EEE 202L

COREQUISITE: EEE 301L

This course provides an introduction to the theory and application of electronic devices, linear equivalent circuits, amplifier and bias considerations, frequency response of amplifiers, and integrated circuits, as well as the concept of electronic circuit design to meet prescribed specifications. Computer modeling of electronic circuits using MultiSim or an equivalent software will be implemented in this course.

EEE 301L**One Credit****ELECTRONIC DEVICES LABORATORY (FO)**

COREQUISITE: EEE 301

This is the laboratory that accompanies EEE 301 Engineering Electronics I. The goal of this course is to provide the student hands-on experience with electronic components such as BJT'S, FET'S and diodes. The student will design and construct electronic circuits that will illustrate principles covered in the lecture. This course includes practical examinations, laboratory experiments, and report preparation.

EEE 302**Three Credits****MICROELECTRONICS (SO)**

PREREQUISITE: EEE 301, EEE 301L

COREQUISITE: EEE 302L

This is the second course in electronics for electronics engineering and technology majors. The goal of this course is to provide the student with an understanding of advanced electronics concepts. The following topics are covered: multi-stage amplifiers, frequency response using Bode plots, feedback, oscillators, and active filters. To successfully complete this course, the student must demonstrate a working knowledge of the concepts covered through assignments and written examinations.

EEE 302L**One Credit****MICROELECTRONICS LABORATORY (SO)**

COREQUISITE: EEE 302

This is the laboratory that accompanies EEE 302 Engineering Electronics II. The goal of this course is to provide the student additional hands-on experience with more advanced electronic circuits. The student will construct advanced electronics circuits that will illustrate principles covered in the lecture. To successfully complete this course, the student will be required to perform a series of experiments of increasing difficulty. A formal report is required to be turned in one (1) week after performing an experiment.

EEE 305**Three Credits****SIGNALS and SYSTEMS (FO)**

PREREQUISITES: EEE 202; EEE 202L, MTH 372

This course is an introduction to system representations and analysis, representation of signals, methods of linear system analysis using convolution, Fourier series and transforms, and Z-transforms. Formulation and solution of state- variable equations as well as introduction to amplitude and analog pulse modulation are also studied. A design project is required.

EEE 311**Three Credits****ENGINEERING ECONOMICS (SO)**

PREREQUISITE: MTH 251, Junior/Senior Standing

This course provides an introduction to economic principles and techniques used in making decisions about the acquisition and retirement of capital goods by government and industry. Special emphasis is given to methods of analysis based on the mathematics of compound interest. Study of time value of money, annual cost, present worth, future value, capitalized cost, along with break- even analysis, evaluation, and depreciation, and ethics in economics is covered. The class will also include entrepreneurial topics, such as business plans, sources of al and marketing strategies.

EEE 321**Three Credits****ELECTROMAGNETIC FIELD THEORY (SO)**

PREREQUISITES: PHY 161, PHY 161L, MTH 372

This course involves the study of static and propagating electromagnetic fields, a review of Maxwell's equations, propagation of EM-fields in dielectric materials, transmission theory.

EEE 331**Three Credits****MICROPROCESSORS (FO)**

PREREQUISITES: EEE 231

COREQUISITE: EEE 331L

This course is a study of microprocessors and microcontrollers in relation to computers, including the description of the architecture of a microprocessor. Buses, memory mapping, registers, flags, interrupts, instruction sets, addressing modes, Macros, timing diagrams, supporting chips, and interfacing are also covered.

EEE 331L**One Credit****MICROPROCESSORS LABORATORY (FO)**

COREQUISITE: EEE 331

Procedures for reliable digital microcomputer design, understanding manufacturers' specifications, use of special test equipment, machine representation of numbers, assembler basics, experiments to assemble, debug, and interface with peripherals are studied in this course.

EEE 333**Three Credits****DIGITAL INTEGRATED CIRCUITS (SO)**

PREREQUISITES: EEE 331

COREQUISITE: EEE 302, EEE 302L, EEE 333L

This course involves fundamentals of CMOS VLSI design and analysis. Steps involved in semiconductor device construction, operation, use in digital circuits and logical flow from systems perspective will be studied.

EEE 333L **One Credit**
DIGITAL INTEGRATED CIRCUITS LABORATORY (SO)
PREREQUISITES: EEE 331, EEE 331L

COREQUISITES: EEE 302, EEE 333

This course is intended to augment the concepts taught in EEE 333 through hands-on experiments. Characteristics of the discrete digital integrated circuits are explored through design of combinational and sequential circuits. Students will design integrated circuits using VLSI simulation software.

EEE 350 **Three Credits**
SCIENTIFIC INSTRUMENTATION (SO)

PREREQUISITES: EEE 102 or
CSC 170; EEE 201 or equivalent

This course covers integrated hardware and software applications to communicate and control instruments. Communication interface standards such as IEEE- GPIB and RS232, and use of data acquisition (DAQ) boards will be studied. Timing issues, real-time data acquisition and instrument control will also be covered.

EEE 351 **Three Credits**
COMMUNICATIONS ENGINEERING (SO)

PREREQUISITE: EEE 301, EEE 301L, EEE 305

This course consists of the study of the following concepts: amplitude, frequency, phase, frequency modulation, phase modulation, sampling, pulse modification, time division multiplexing, detection, frequency mixing, filters, receivers, transmitters, and noise analysis.

EEE 371 **Three Credits**
CONTROL SYSTEMS (FO)

PREREQUISITES: EEE 302, 302L, 305

Introduction to control systems; mathematical models, feedback control systems characteristics and stability, root locus, frequency responses, stability in the frequency domain analysis.

EEE 401 **One Credit**
ELECTRONICS ENGINEERING SEMINAR (FO)

PREREQUISITE: Senior Standing

This course provides an introduction to various aspects of engineering practice, engineering ethics, and career opportunities through invited lectures.

EEE 402 **Three Credits**
POWER ELECTRONICS

This course is being added to the curriculum to aid in the enhancement of the students' knowledge of electronics required for various power delivery systems.

EEE 431 **Three Credits**
MICROCONTROLLERS

This course is being added to the curriculum to replace EEE 331 Microprocessor and to ensure our program is aligned with other Electrical and Electronics Engineering Programs.

EEE 451 **Three Credits**
COMMUNICATION ENGINEERING (FO)

PREREQUISITE: EEE 351

This course will introduce wireless communication technologies. Topics covered include: transmission fundamentals, signal encoding techniques, coding and error control, cellular wireless networks, Mobile IP and wireless access protocols.

EEE 462 **Three Credits**
SEMICONDUCTOR PROCESSING TECHNOLOGY (FO)

PREREQUISITES: EEE 301 or EEE 203; EEE 211; or
Permission of instructor

This course presents the fundamentals of semiconductor processing technology, including semiconductor substrates, microfabrication techniques, and process integration. Lithography, oxidation, diffusion, ion implantation, methods of film deposition and etching, metal interconnections, measurement techniques and packaging will be discussed.

EEE 463 **Three Credits**
SEMICONDUCTOR THEORY AND DEVICES (SO)

PREREQUISITE: EEE 211, EEE 301 or Equivalent

This course presents fundamental semiconductor devices physics and the operation principles of semiconductor devices. It focuses on the operation of devices such as diodes, field effect transistors, and bipolar junction transistors. It also covers optoelectronic devices such as photodetectors, light-emitting diodes, and solar cells.

EEE 470 **Three Credits**
INTRODUCTION TO GAME DESIGN AND DEVELOPMENT

This course introduces students to game design and development concepts.

EEE 471 **Three Credits**
3D GAME PROGRAMMING

This is a project-oriented course on 3D Game Programming. Students will work in teams to design, implement and test a three- dimensional game with interactivity, game state diagrams, animation, sound, and constraints.

EEE 475

Three Credits

DESIGN OF ROBOTIC SYSTEMS

This course will focus on core principles in the design and development of robotic systems. The course will build upon principles in electrical engineering, mechanics, and computer science.

This course will cover the processes for recovery, productions, and usage of bio fuels and bio products generated from these three types of biomasses to ultimately produce heat, electricity, transportation fuel, chemicals, and materials.

EEE 481

Three Credits

BIOMEDICAL ENGINEERING MICRO-DEVICES AND SYSTEMS (S0)

PREREQUISITE OR

COREQUISITE: PHY160 and CHM 210 or 221; Junior or Senior level standing; or Permission of Instructor.

This course introduces the concepts of biomedical engineering devices, especially for sensing and modulation applications. The course covers electronic or optical transduction techniques for applications such as neurochemicals, bio-potentials and cellular ions. The course also includes a laboratory component for the design and fabrication of microscale biomedical sensors.

EEE 482

Three Credits

BIOELECTRICS

This course covers the important concepts of bio-electrics, bioelectric system modeling and diagnosis. Although emphasis will be given to cardiovascular system, students will be able to apply the principles of bioelectricity to any bioelectrical system.

EEE 498

Three Credits

SENIOR PROJECT I (FO)

PREREQUISITE: EEE 302, EEE 302L

In this course students plan and design capstone engineering projects incorporating realistic and diverse constraints of technical, budgetary, and social aspects. Both written reports and oral presentations are required.

EEE 499

Three Credits

SENIOR PROJECT II (SO)

PREREQUISITE: EEE 498

This course is the implementation phase of capstone projects designed in EEE 498. Demonstration of the final working project is required along with a written report and oral presentation.

ELECTRONIC ENGINEERING TECHNOLOGY (EET)

EET 111

Three Credits

CIRCUIT ANALYSIS I (EE)

PREREQUISITE: MTH 151

COREQUISITE: ELT 111L

Introduction to direct current circuits with emphasis on voltage, current, resistance, Ohm's Law, energy and power. Series, parallel, and series- parallel circuits, voltage and current dividers, and Kirchhoff's Law are studied, as well as DC network analysis, network theorem and transient analysis of inductive and capacitive circuits.

EET 111L

One Credit

CIRCUIT ANALYSIS I LAB (EE)

PREREQUISITE: MTH 151

COREQUISITE: ELT 111

Introduction to "live" and computer simulated experiments in DC theory

EET 111L

One Credit

CIRCUIT ANALYSIS I LAB (EE)

PREREQUISITE: MTH 151

COREQUISITE: ELT 111

Introduction to "live" and computer simulated experiments in DC theory with emphasis on breadboarding electric circuits, using meters, and using electronic simulation software. (Meets 3 hrs. per week.)

EET 212

Three Credits

CIRCUIT ANALYSIS II (EE)

PREREQUISITES: MTH 153; ELT 111, 111L

COREQUISITE: ELT 212L

Study of alternating current circuits, with emphasis on alternating current and voltage, capacitors, RC circuits, Inductors, RL circuits, RLC circuits, resonance, AC network analysis, network theorem, and transformers.

EET 212L

One Credit

CIRCUIT ANALYSIS II LAB (EE)

PREREQUISITES: MTH 153; ELT 111, 111L

COREQUISITE: ELT 212

Introduction to "live" and computer simulated experiments in AC theory with emphasis on breadboarding electric circuits, using meters, and using electronic simulation software. Develops skills in measuring AC circuit parameters. (Meets 3 hrs. per week.)

EET 213 **Three Credits**

ELECTRONIC DEVICES I (EE)

PREREQUISITES: ELT 212, 212L; PHY 152, 152L
COREQUISITE: ELT 213L

Examination of semiconductor junction devices, with emphasis on characteristics and operation of diodes, bipolar junction transistors and field-effect transistors; DC characteristics, biasing, and DC stability.

EET 213L **One Credit**

ELECTRONIC DEVICES I LAB (EE)

PREREQUISITES: ELT 212, 212L; PHY 152, 152L
COREQUISITE: ELT 213

Experiments with semiconductor junction devices, with emphasis on characteristics and operation of diodes, bipolar junction transistors and field-effect transistors; DC characteristics, biasing, and DC stability.

EET 220 **Three Credits**

DIGITAL ELECTRONICS (SO)

PREREQUISITES: ELT 213, 213L
COREQUISITE: ELT 220L

Study of digital devices and circuits, logic devices, integrated circuits, binary, and hexadecimal.

EET 220L **One Credit**

DIGITAL ELECTRONICS LAB (SO)

PREREQUISITES: ELT 212, 212L
COREQUISITE: ELT 220

Experiments on logic circuits, integrated circuits and microprocessors, circuit and device troubleshooting and analysis. (Meets 3 hrs. per week.)

EET 313 **Three Credits**

ELECTRONIC DEVICES II (FO)

PREREQUISITES: ELT 213, 213L

COREQUISITE: ELT 313L

Examination of power amplifiers, operational amplifiers, active filters, oscillators, communications circuits, voltage regulators, and other semiconductor devices.

EET 313L **One Credit**

ELECTRONIC DEVICES II LAB (FO)

PREREQUISITES: ELT 213, 213L

COREQUISITE: ELT 313

Experiments with power amplifiers, operational amplifiers, active filters, oscillators, communications circuits, voltage regulators, and other semiconductor devices.

EET 314 **Three Credits**

INSTRUMENTATION MEASUREMENT AND CONTROL

PREREQUISITES: ELT 220, 220L, 313

Study of characteristics and limitations of instrumentation, measurement and control systems. Emphasis is on measurement systems, including transducers, signal conditioners, and telemetry systems. Various types of control systems are also addressed.

EET 315 **Three Credits**

ANALOG COMMUNICATION SYSTEMS (FO)

PREREQUISITES: ELT 213, 213L

COREQUISITE: ELT 315L

Introduction to analog communications technology, with Introduction to analog communications technology, with emphasis on theory, operation, design of radio frequency amplifiers and receivers, mixers, oscillators, coupling circuits, transmitters, propagation, antennas and RF Systems.

EET 315L **One Credit**

ANALOG COMMUNICATION SYSTEMS (FO)

PREREQUISITES: ELT 213, 213L

COREQUISITE: ELT 315

This is the lab component of ELT 315. Emphasis is on measurement and analysis of communications signals and evaluation of communication systems.

EET 413 **Three Credits**

DIGITAL COMMUNICATIONS SYSTEMS (SO)

PREREQUISITES: ELT 220, 220L

Theory of communications systems utilizing digital signals. Includes coding, multiplexing, digital modulation, information codes, and error detection codes.

EET 413L **One Credit**

**DIGITAL COMMUNICATIONS SYSTEMS
LABORATORY (FO)**

COREQUISITE: ELT 413

This course is the laboratory component for ELT 413 lecture. Students will design, build, and troubleshoot such circuits and systems as modulators, transceivers, line coders, multiplexers, fiber optics and data acquisition systems.

EET 416 **Three Credits**

WIRELESS COMMUNICATIONS SYSTEMS (SO)

PREREQUISITES: ELT 413, 413L

COREQUISITE: ELT 416L

This course provides an introduction to Wireless Communication Systems. Topics include electromagnetic fundamentals, regulations, propagation, wireless networking fundamentals, multiple access methods, protocol architecture, digital modulation techniques, terrestrial broadcast systems, satellite systems, cellular systems, various 802.11 systems. Bluetooth and ultra-wideband systems

EET 416L **One Credit**
WIRELESS COMMUNICATIONS SYSTEMS LABORATORY (SO)

PREREQUISITES: ELT 413, 413L

COREQUISITE: ELT 416

This course provides the lab component to Wireless Communication Systems (ELT416). The student will perform laboratory exercises on various aspects of wireless systems including wireless antennas 802.11 network setup, security, troubleshooting, site surveying and network management.

EET 497L **One Credit**
SENIOR PROJECT A: A CAPSTONE EXPERIENCE

PREREQUISITE: Senior Standing

This is the first of a two-course capstone experience. Students will develop a career portfolio, review soft skills, and gain approval for a formal proposal for a senior project. The project will be completed in the second course in the sequence.

EET 498L **One Credit**
SENIOR PROJECT B: A CAPSTONE EXPERIENCE

PREREQUISITES: ELT 497L

This is the second of a two-course capstone experience. Students will build the project approved in the first course and complete their project with the requirement of project presentation.

EET 499 **Three Credits**
SENIOR PROJECT

PREREQUISITES: ELT 313, 313L

COREQUISITE: ELT 499L

Selection and completion of a project under faculty supervision conducted as an individual or small-group design project, including determining customer requirements, considering design alternatives, issuing a formal project proposal, and then implementing the proposal. The course concludes with a report and demonstration of functionality of individual hardware and software design. Projects are typical of problems which graduates must solve in their field of employment.

EET 499L **One Credit**
SENIOR PROJECT LAB

PREREQUISITES: ELT 313, 313L

COREQUISITE: ELT 499

Individual or small group electronic design projects.

ELEMENTARY EDUCATION (EED/ECE)

ECE 110 **Two Credits**

INTRODUCTION TO THE PROFESSION (EE)

Introduction to the various fields of education thought and practice with some emphasis on the historical influences on our present system of education. Study includes the role and place of education in preschool and elementary (PreK-3) settings. Lectures, discussions, demonstrations, films, field trips, observation and participation in PreK-3 preschool and elementary school classrooms are provided. This class is conducted as a career decision seminar. (see Handbook: <http://www.nsu.edu/schools/education/handbk1.pdf>)

ECE/EED 232 **Three Credits**

CREATIVE ACTIVITIES FOR CHILDREN (E)

This is a lecture and experientially based course that focuses on the development of creative abilities ages three to six. Emphasis is placed on planning teaching and learning experiences in art, music, movement, nutrition, health, dramatic play, social-emotional development and computer applications.

ECE/EED 233 **Three Credits**
CRITICAL THINKING AND ASSESSMENT SKILLS (EE)

This course is designed to increase the test taking skills of students who are education majors in preparation for the PRAXIS, Pre-Professional Skills Test (PPST) and the EWC. The course is also designed to improve reading, writing, mathematics, and critical thinking skills. Pre-tests scores will be calculated to assist students in assessment of their skills levels. Minimum state levels are: reading 178, writing 176, and mathematics 178.

ECE/EED 324 **Three Credits**
CHILDREN'S LITERATURE FOR EARLY CHILDHOOD EDUCATION (EE)

The scope of this course includes the study of children's literature and an appraisal of its value in meeting the language, cognitive, social emotional, recreational and aesthetic needs of pre-school and primary grade school children. Emphasis will be placed on applying literature selective criteria, methodology and implementation in criteria, methodology and implementation in educational and home settings. Practical experiences will be provided that allow candidates opportunities to observe the implementation of children literature programs in educational settings.

ECE/EED *360 **Three Credits**
CURRICULUM AND INSTRUCTION FOR PRIMARY GRADES (Pre-K –3rd Grade) (EE)

This course is designed to prepare teachers to implement an effective curriculum for children in grades preK-3. As a prerequisite, you will need to have adequate content knowledge to teach mathematics, science, reading, social studies, physical education, health and technology. The course will assist you in the development of a broad-based educational philosophy, extensive knowledge of human growth and development, practical experience with children, and the ability to digest and interpret a body of research about teaching and learning, creating learning communities,

ECE/EED *360**Three Credits****CURRICULUM AND INSTRUCTION FOR PRIMARY GRADES (Pre-K –3rd Grade) (EE)**

This course is designed to prepare teachers to implement an effective curriculum for children in grades preK-3. As a prerequisite, you will need to have adequate content knowledge to teach mathematics, science, reading, social studies, physical education, health and technology. The course will assist you in the development of a broad-based educational philosophy, extensive knowledge of human growth and development, practical experience with children, and the ability to digest and interpret a body of research about teaching and learning, creating learning communities, differentiating instruction for all learners, managing the classroom, assessment, the effective use of technology, and working with colleagues and parents. PRAXIS Principles of Learning and INTASC Standards will be covered. Ultimately, the goal is for you to use and apply theoretical and research knowledge to improve learning at the early childhood level.

ECE/EED 362**Three Credits****METHODS AND MATERIALS OF INSTRUCTION IN MATH FOR YOUNG CHILDREN (FO)**

Methods and techniques of teaching mathematics to early childhood school children include preparation and practice with materials in classroom situations. This course is designed especially to meet the needs of elementary school teachers in grades Pre-K-3.

ECE/EED 370**Three Credits****ANALYZING BEHAVIOR OF CHILDREN (E)**

This is a lecture and experientially based course that focuses on observation methods as it applies to young children. Both formal and informal assessment methodology and strategies to diagnose and assess young children's learning and development will be used to create developmentally appropriate experiences. Candidates must complete twenty hours of observation and participation.

ECE/EED 375**Three Credits****CHILDREN'S DRAMA (E)**

PREREQUISITES: Completion of required 100 and 200 level courses.

Study of theories and methods of children's drama and creative development with a concentration on literacy and educational goals. Survey of literature and production techniques. Practical work in a production of a Children's Drama with an emphasis on the pre-school years.

ECE/EED 420**Three Credits****PARENT EDUCATION (E)**

This course will focus on strategies for helping child care personnel and parents work together more effectively. This course will identify how the home, childcare settings/ schools, and community interact and provide a forum for discussion of ways in which these settings interact to affect children's lives. Candidates are required to spend 20 hours of observation and participation.

ECE/EED 450**Three Credits****TEACHING LITERACY IN THE ELEMENTARY SCHOOL**

This course is designed to teach pre-service teacher candidates how to prepare children for a lifetime of literacy appreciation and how to diagnose, correct, and remediate mild

to moderately severe reading difficulties among children in grades kindergarten through six. Emphasis will be placed on developing students' competencies in teaching oral communication, phonemic awareness, phonics, fluency, vocabulary, text comprehension, and literature appreciation. Teacher candidates will also be provided with knowledge of ways to utilize various types of media to support literacy in classrooms, including technological media instruction.

ECE/EED 460**Three Credits****ADMINISTRATION OF CHILD & FAMILY PROGRAMS (E)**

The purpose of this course is to expose you to the administrative aspects of early childhood education. You will be introduced to a range of administrative demands in different types of early childhood centers as well as maintaining and developing ongoing programs. Twenty observation hours will be required for this class.

ECE/EED *461**Three Credits****CURRICULUM AND INSTRUCTION FOR EARLY SCHOOL (Grades 4-6) (EE)**

PREREQUISITES: EED 461

Curriculum, instructional processes, learning environments and the professional responsibilities of teachers for linking knowledge of subject fields, pedagogy, classroom management and insights will be the thrust of this course. It will focus on fourth, fifth, and sixth grade curriculum and will also include three major components: Goal, setting, content, and methodology. Candidates are required spend twenty scheduled hours during the semester in a fourth, fifth or sixth grade classroom. They will plan, design, and implement activities. Videotaping of activities/lessons, demonstrations, and classroom simulations will be required.

ECE/EED 465**Three Credits****METHODS SCIENCE & MATHEMATICS IN ELEMENTARY SCHOOL (EE)**

Prerequisites: Passing the Virginia Communication and Literacy Assessment (VCLA)

The objective of this course is to provide the novice teacher with the knowledge for math and science teaching and learning in the elementary school. Though not exclusive, topics covered will include of math and science; assessing student learning; planning units, lessons, and activities, effective instructional strategies; and knowledge of math and science content.

ECE/EED 470**Three Credits****METHODS OF TEACHING SOCIAL STUDIES IN THE ELEMENTARY SCHOOL (EE)**

The objective of this course is to provide you, the novice teacher, the knowledge for social studies teaching and learning in the elementary school. Though not exclusive, topics covered will include the what and why of social studies; assessing student learning; planning units, lessons, and activities; effective instructional strategies; and knowledge of social studies content. The course will include a focus on technology integration, the Virginia Standards of Learning, the Virginia teaching standards and the standards proposed by the Association of Childhood Education International, the National Council for the Accreditation of Teacher Education, and the National Council for Social Studies.

ECE/EED 490**Three Credits****DIAGNOSTIC READING (EE)**

PREREQUISITES: EED 450

Preparation for elementary school student teachers to diagnose and correct mild to moderately severe reading difficulties. Perceptual skills, decoding skills, experiences, language background, mind set, and the reasoning ability of the readers influence comprehension of written symbols. Elementary school students anticipate meaning on the basis of what they have just read. Serious flaw in any major function or part may prevent adequate performance. Emphasis on investigating nature and causes of reading difficulties. Formal and informal instruments and procedures used for early detection and correction of reading problems are investigated.

ECE/EED 495**Nine Credits****PRACTICUM (E)**

This program is designed to provide a period of supervised experiences during which the prospective teacher of a preschool child, child care, or a Head Start setting takes gradual responsibility for a group of pupils for a definite period of time. The teacher is observed by a university supervisor for a minimum of three times during the experience. This sixteen week practicum experience including a one week observation is a mandatory requirement of the program.

ECE/EED 499**Twelve Credits****DIRECTED TEACHING AND SEMINAR (EE)**

This program is designed to provide two supervised experiences at two levels, PK-3 and 4-6, during which the prospective teacher of grades PK-6 takes gradual responsibility for a group of pupils for a specified period of time. The teacher is observed by a university supervisor a minimum of three times during each experience. This sixteen week practicum experience including a one week observation is a mandatory requirement of the program.

** Enrollment requires completion of requirements for admission to teacher education.*

ELEMENTARY SPECIAL EDUCATION (ECS)

ECS 300**Three Credits****INTRODUCTION TO ELEMENTARY SPECIAL EDUCATION (E)**

This course is a lecture based course in which students will be expected to engage in readings, class discussions and participate in activities both in class and on Blackboard. The course will cover the history, philosophy, legislation, and practices of early and practices of early childhood special education. The purpose of this course is to provide students with an overview of the field's history, current trends, and future directions. Students will also have opportunities to form their own philosophies of early intervention. The course will encompass (1) the examination of federal legislation and policies related to early childhood education, (2) models of service delivery in early childhood special education, (3) social issues and societal events; including bias (e.g., cultural, linguistic) in curricula that affect early childhood special education programming (4) handicapping conditions and conditions that put children at-risk, (5) the role of the family and community supports, (6) inclusion, (7) transition issues, and (8) outcome and efficacy of early childhood special education, including adaptation of curricula for children and families with diverse socioeconomic, language, ethnic, and religious backgrounds, (10 hours) will be required for this class.

ENGLISH (ENG)

ENG 100**Four Credits****INTRODUCTION TO COLLEGE COMMUNICATION (SI)**

Focus on reading comprehension, vocabulary development, sentence structure, standard usage and punctuation, paragraph and essay development. Course designed for the student whose SAT scores and high-school G.P.A. results indicate a need for skills enhancement in reading, writing or concomitant literacy skills.

ENG 100E**Three Credits****ENGLISH AS A SECOND LANGUAGE (SI)**

Preparation for foreign students to attain freshman entry level writing proficiency. Students who score less than 500 on the TOEFL must enroll in this course. Offered in lieu of ENG 100.

ENG 101**Three Credits****COLLEGE ENGLISH I**

PREREQUISITE: Satisfactory Scoring on Placement Examination or Promotion from ENG 100

Experiences in multiple-draft writing of expository themes through the writing-process approach. Focus on thesis analysis and development, and analyses of audience, purpose, tone, style, and diction. Selected readings included. **MUST BE**

BE PASSED WITH A "C" OR ABOVE.

ENG 102**Three Credits****COLLEGE ENGLISH II (E)**

PREREQUISITE: ENG 101

Development of critical and analytical skills in communication which provides experience in argumentative reading and writing and in techniques of research. **MUST BE PASSED WITH A "C" OR ABOVE.**

ENG 108**Three Credits****ANALYTICAL REASONING, WRITING AND COMPREHENSION I (SI)**

PREREQUISITE: ENG 101 and ENG 102

Introduction to vocabulary building, literal and inferential comprehension, reading, writing and the development of critical reading and cognitive skills.

ENG 109**Three Credits****ANALYTICAL REASONING, WRITING AND COMPREHENSION II (SI)**

PREREQUISITE: Restricted to AROTC Cadets or students enrolled in a military science course.

Emphasis on the application of comprehension and cognitive skills.

ENG 111**Two Credits****INTRODUCTION TO LANGUAGE STUDIES (SI)**

Orientation for various facets of written and oral language studies or to students' respective sequences of study and to some related professional positions.

ENG 114 **Two Credits**
TECHNIQUES OF VOCABULARY BUILDING (EE)
Introduction to the study of language with emphasis on processes of vocabulary building and some techniques of vocabulary expansion.
NOTE: Prerequisites to all courses above the ENG 114 level, unless otherwise indicated, are ENG 101 and ENG 102.

ENG 203 **Three Credits**
ADVANCED COMMUNICATION SKILLS (E)
PREREQUISITE: ENG 102
Emphasis on the writing of analytical essays based on selected readings. Researched, documented exposition stressed.

ENG 207 **Three Credits**
INTRODUCTION TO WORLD LITERATURE (EE)
Close attention to works selected from world literature for their exemplary literary qualities and their bearing upon our cultural heritage.

ENG 210 **Three Credits**
PRACTICAL ENGLISH GRAMMAR (FO)
Structure of the English language and the principles underlying both sentence construction and standard English usage, establishing the connection between grammar and writing.

ENG 214 **Three Credits**
INTRODUCTION TO CREATIVE WRITING (SI)
Introduction to the process and practice of imaginative writing in the various genres. Brief study of the marketing of manuscripts. Practical experience in both writing and editing.

ENG 215 **Three Credits**
WRITING SHORT STORIES (SI)
Introduction to the art of short story writing with emphasis on the elements of a story as well as models of classic literature. Students are expected to understand the construction of short fiction.

ENG 218 **Three Credits**
WRITING POETRY I (SI)
Introduction to the art of poetry writing with emphasis on the elements of poetry as well as models of classic literature. Students are expected to understand the construction of poems.

ENG 250 **Three Credits**
TOPICS IN ENGLISH
PREREQUISITES: ENG 102 with C or better
This course provides an introductory level survey of a special topic in English. Students will read, analyze, discuss, and write about texts built around and instructor-chosen theme. The course will require a research-based assignment as well as shorter analytical writing assignments.

ENG 283 **Three Credits**
AFRICAN-AMERICAN LITERATURE TO 1940
PREREQUISITE: ENG 101 & 102
Survey of African-American literature until 1940 spanning works produced by Africans prior to their arrival as slaves in the United States and from slavery through the Harlem Renaissance. **MUST BE PASSED WITH a "C" OR ABOVE.**

ENG 285 **Three Credits**
PUBLIC SPEAKING
PREREQUISITES: ENG 101 and 102
Focuses on the theory and practice of public speech. Students will learn the principles of discovering and evaluating arguments and evidence, organization, style, preparation, delivery, analysis of issues, the nature of argument, audience psychology, critical listening, and the ethics of persuasive discourse.

ENG 286 **Three Credits**
ADVANCED COMPOSITION (EE)
Analysis of the form and function of literary texts and how those vary across literary genres with a consideration of their culture context. Emphasis on conducting literary research and writing about literary texts. Required of all English majors in lieu of ENG 203.

ENG 303 **Three Credits**
PROFESSIONAL AND TECHNICAL WRITING (EE)
Discipline-specific course designed to provide writing experiences across the curriculum.

ENG 304 **Three Credits**
ELECTRONIC RESEARCH AND TECHNICAL WRITING (SI)
PREREQUISITE: Junior Standing or Permission of Instructor
Provides experience in electronic research and technical writing. Students will be introduced to electronic research via the internet and databases.

ENG 305 **Three Credits**
MULTIMEDIA WRITING (SI)
PREREQUISITE: Junior Standing or Permission of Instructor
Provides experience in organizational patterns, navigation systems, and internet etiquette and teaches students basic skills for creating hypertext and hypermedia documents.

ENG 306 **Three Credits**
INTRODUCTION TO LITERARY CRITICISM (FO)
PREREQUISITE: Junior Standing or Permission of Instructor
Survey of various critical approaches (biographical, sociological, mythical, structural, psychological, etc.) and their application to specific works and genres.

ENG 310 **Three Credits**
LITERATURE OF THE RENAISSANCE PERIOD (SI)
Poetry and prose of the English Renaissance with emphasis on Spenser, Sidney, and the non-dramatic poetry of Shakespeare.

ENG 312 **Three Credits**
WRITING IN A GENRE (SI)
 Introduction to the process and practice of imaginative writing in a specific genre or genres to be determined by the instructor. Study of works by important genre authors and poets. Practical experience in writing, editing, manuscript preparation, and marketing.

ENG 313 **Three Credits**
WRITING AUTOBIOGRAPHY AND MEMOIR (SI)
 Introduction to the genres of autobiography and memoir. Experience in reading and writing samples of each genre as well as demonstrating critiques in a workshop atmosphere. Emphasis on organizing and shaping perceptions of students' lives into coherent form, both for self-expression and for publication.

ENG 314 **Three Credits**
SCREENWRITING (SI)
 Screenwriting will train students in the fundamental components of screenwriting. Through an analysis of character motivation, pacing and plot structure, the course teaches the techniques used by professional writers in crafting movie shorts and full-length feature films.

ENG 315 **Three Credits**
SURVEY OF ENGLISH LITERATURE I (FO)
 Study of the major authors and major works in English literature from the Anglo-Saxon period through the Eighteenth Century.

ENG 316 **Three Credits**
SURVEY OF ENGLISH LITERATURE II (SO)
 Study of the major authors and major works in English literature from the Romantic period through the Modern Age.

ENG 317 **Three Credits**
THE BIBLE AS LITERATURE (SI)
 Reading selections from the Old and New Testaments and the Apocrypha with emphasis on their literary aspects.

ENG 319 **Three Credits**
WRITING POETRY II (SI)
 PREREQUISITE: ENG 218
 Development of an advanced knowledge of self-expression and creativity, as well as the use of poetic devices such as meter, rhythm, imagery, and symbolism in traditional and contemporary forms.

ENG 320 **Three Credits**
SEVENTEENTH CENTURY ENGLISH LITERATURE (SI)
 Critical study of Milton, Donne, the metaphysical and cavalier poets, the Jacobean dramatists, and prose writings of Burton and Brown.

ENG 321 **Two/Three Credits**
THE ART OF POETRY (SI)
 Analytical study of poetry with emphasis on meaning, technique, and form.

ENG 336 **Three Credits**
MODERN ENGLISH AND AMERICAN LITERATURE (SI)
 Study of the major writers of the twentieth century with emphasis on main currents of thought within the century.

ENG 341 **Three Credits**
AMERICAN LITERATURE I (FO)
 Survey of American Literature from the Colonial Period to the Civil War.

ENG 342 **Three Credits**
AMERICAN LITERATURE II (SO)
 Survey of American Literature from the Civil War to the present.

ENG 350 **Three Credits**
SEMINAR IN LITERARY ANALYSIS AND INTERPRETATION (SO)
 PREREQUISITES: ENG 101, 102, 207 & 286
 In-depth instruction in the skills of analysis and interpretation of literary texts to prepare for thesis-writing. Practice close reading and analysis of texts in different genres to develop research and thesis-driven essays about literature.

ENG 383 **Three Credits**
AFRICAN-AMERICAN LITERATURE, 1940-PRESENT (E)
 PREREQUISITE: ENG 102 & 102
 Survey of African-American literature beginning in 1940 and continuing into the present with a focus on major literary movements including realism, naturalism, modernism, the Black Arts Movement, and works from the contemporary period.

ENG 384 **Three Credits**
AFRICAN-AMERICAN LITERATURE: POETRY (SI)
 Study of selected works of major African-American poets with emphasis on dominant themes and forms, and attention to the historical and literary background of the poetry.

ENG 385 **Three Credits**
AFRICAN-AMERICAN LITERATURE: FICTION (SI)
 Development of African-American fiction from 1853 to the present. Includes social and historical conditions of African-Americans as reflected in their fiction, as well as the major literary trends of the writings.

ENG 400/ 500 **Three Credits**
ADVANCED PLACEMENT ENGLISH IN THE HIGH SCHOOL (SI)
 PREREQUISITE: Senior or Graduate level
 Study of the Advanced Placement Program in English, with attention to establishing an AP program, designing and implementing an AP curriculum, and designing, developing, and teaching an AP course.

ENG 404 **Three Credits**
CAREER-FOCUSED TECHNICAL WRITING (SI)
 PREREQUISITES: Junior Standing or Permission of Instructor

ENG 404 **Three Credits**
CAREER-FOCUSED TECHNICAL WRITING (SI)
PREREQUISITES: Junior Standing or Permission of Instructor

This course provides technical writing experiences that are career focused. Readings and discussions are based on career goals, emphasizing web-based compositions. This course will prepare students to write effectively in their respective career fields.

ENG 405 **Three Credits**
PROFESSIONAL PRESENTATION (SI)
PREREQUISITES: Junior Standing or Permission of Instructor

This course provides instruction in the development of workplace documents using audience analysis, visual communication, research, organization, and complex technical manuscripts.

ENG 406 **Three Credits**
DIGITAL WRITING AND CORPORATE PUBLICATIONS (SI)
PREREQUISITES: Junior Standing or Permission of Instructor

This course focuses on digital writing, including proposals, communication plans, training documents, program and operational documents, white papers, and collateral workplace publications.

ENG 410 **Three Credits**
HISTORY OF THE ENGLISH LANGUAGE (FO)

Structure and development of the language in England and America with emphasis on historical grammar and linguistic changes with the cultural factors involved.

ENG 412 **Three Credits**
CHAUCER (SI)

Designed to provide a general acquaintance with *The Canterbury Tales*, *Troilus and Criseyde* and some of Chaucer's minor poems.

ENG 413 **Three Credits**
SHAKESPEARE (FO)

General survey of Shakespeare's dramatic career, with readings of a selected number of his plays and their study against the background of Elizabethan social, political, and philosophical ideas.

ENG 416 **Three Credits**
MILTON (SI)

Study of the chief poems and prose works of Milton with emphasis on Milton's artistic merits and on his religious, scientific, and political ideas.

ENG 419/ 519 **Three Credits**
CONTEMPORARY AMERICAN ENGLISH GRAMMAR (SO)

Survey of the function of American English grammar in modern communication with emphasis on usage, dialectology, stylistics, and aesthetics.

ENG 420/ 520 **Three credits**
BLACK ENGLISH, DIALECTS, AND LINGUISTIC UNIVERSALS (SI)
PREREQUISITE: Senior or Graduate level

Introduction to and historical overview of linguistic universals and language variations including the structure and development of American speech and language styles, with emphasis on Black English.

ENG 421 **Three Credits**
EIGHTEENTH CENTURY ENGLISH LITERATURE (SI)
Introduction to Addison, Steele, Dryden, Swift, Pope, Johnson, and their contemporaries.

ENG 430 **Three Credits**
ROMANTIC WRITERS (SO)

Critical study of the development of the Romantic Movement. Special emphasis upon Wordsworth, Coleridge, Byron, Shelley, and Keats.

ENG 431 **Three Credits**
STUDIES IN THE NOVEL (SI)

Study of selected novels of the nineteenth and twentieth centuries from the Continent, England, and the Americas.

ENG 432 **Three Credits**
AFRICAN AND AFRICAN - AMERICAN NOVEL (SI)
PREREQUISITES: ENG 383 or Permission of Instructor

Detailed study of selected African and African-American novelists and their works.

ENG 433 **Three Credits**
AFRICAN AND AFRICAN - AMERICAN BIOGRAPHY AND AUTOBIOGRAPHY (SI)
PREREQUISITES: ENG 383 or permission of instructor

Study of selected biographies and autobiographies of noted Africans and African-Americans, including Malcolm X, Richard Wright, Alex Haley, and Wole Soyinka.

ENG 435 **Three Credits**
VICTORIAN LITERATURE (SI)

Study of representative British writers from 1837-1901.

ENG 440 **Three Credits**
SEMINAR IN AFRICAN AND AFRICAN-AMERICAN LITERATURE (SI)
PREREQUISITES: ENG 383 or Permission of Instructor

Study of selected works and authors in the African and African-American tradition.

ENG 449/549 **Three Credits**
TEACHING OF COMPOSITION (FO)
PREREQUISITES: Senior or Graduate level

Study of the traditional and contemporary theories, practices, and research that inform the teaching of composition from late elementary school through freshman English.

ENG 450 **Three Credits**

RESEARCH SEMINAR AND SENIOR THESIS (SO)

PREREQUISITES: ALL 200 LEVEL ENGLISH COURSES, ENG 306, AND ENG 350

Independent research on a topic selected by the student, approved by the departmental advisor and completed under the guidance of the advisor.

ENG 452 **Three Credits**

LITERATURE FOR CHILDREN (FO)

Preparation for pre-service teachers in becoming acquainted with and capable of evaluating the great wealth of trade books (library literature) available to today's children ages 0-12. Emphasis on the issues that result from the trends in publishing, selecting, and using these literary selections.

ENG 453 **Three Credits**

WOMEN'S LITERATURE & CONTEMPORARY ISSUES (SI)

PREREQUISITE: ENG 207 or permission of instructor.

Survey of relevant contemporary social issues in women's literature of various ethnic groups. Issues relate to domestic battering, rape, child abuse/incest/pornography, prostitution, and genital mutilation.

ENG 454 **Three Credits**

YOUNG ADULT LITERATURE (SO)

PREREQUISITE: Junior Standing or Permission of Instructor

Survey of the reading needs and preferences of adolescent readers with emphasis on integrating literature throughout the curriculum and utilizing methods of maintaining the integral connection between reading and writing.

ENG 455 **Three Credits**

LITERATURE AND POPULAR CULTURE (SI)

Introduction to the systematic study of popular media, focusing on the development of selected print, film, and video genres.

ENG 456 **Three Credits**

WOMEN'S STUDIES: MYTHS AND IMAGES (SO)

Exploration of the universal myths that promote certain images of women that relate to their biological function in modern fiction written by women.

ENG 457 **Three Credits**

MULTIETHNIC FICTION (SI)

Introduction to the interracial fiction of various ethnic groups as they relate to the dominant culture in America with emphasis on specific beliefs, attitudes, values, and stereotypes that affirm the myth of the melting pot concept.

ENG 458 **Three Credits**

SOUTHERN BLACK FEMALE AESTHETIC (SI)

Introduction to the Southern black female aesthetic in black women's oral and written expressions, emphasizing an Afrocentric cultural continuum as well as the criteria identifying their aesthetic and the racial, sexual politics influencing their cultural expressions.

ENG 459 **Three Credits**

INTERNATIONAL WOMEN'S LITERATURE (SI)

PREREQUISITE: ENG 207 or Permission of Instructor

Examination of fiction, poetry, diaries, journals, letters, interviews, and feminist essays by women writers from the international community, including a study of new conceptual and psychological models of women which provide new frameworks for critical interpretation and judgment.

ENG 460/550 **Three Credits**

ASSESSMENT AND EVALUATION OF WRITING (SI)

Study of writing assessment practices with an emphasis on the variables of composition assessment, scalar measures of composition, large-scale assessment and classroom assessment methods, and alternative assessment techniques.

ENG 465/565 **One, Two, Three Credits**

SPECIAL TOPICS IN LITERATURE AND LANGUAGE (SI)

Engaging in modern literary or linguistic topics by using a variety of perspectives, disciplines, and related themes.

ENG 475/575 **Three Credits**

HISTORY OF RHETORIC (SI)

PREREQUISITES: Senior or Graduate level

Study of the essential texts that form the Western rhetorical tradition from its origins in Greco-Roman times through Modernity with an inclusive treatment of the contributions of African-Americans and women.

ENG 480 **Three Credits**

AMERICAN FOLKLORE AND LITERATURE (SI)

Examination of the subtle and complex relationship between the folklore and the literature of the United States, using a functional and contextual approach; special attention will be given to the kinds of folklore field data.

ENG 491 **Three Credits**

INTERNSHIP (SI)

PREREQUISITE: Junior Standing and Permission of Instructor.

This course offers students the opportunity to apply their skills and knowledge in actual work situations under the supervision of a professional in the field and to explore career options or to engage in sustained scholarly research on a selected topic under the guidance of a major professor.

EXERCISE SCIENCE (EXS)

EXS 170 **Three Credits**

INTRODUCTION TO EXERCISE SCIENCE (FO)

PREREQUISITES: Exercise Science Major

Introduction to Exercise Science is designed to expose students to the important aspects of the health-related academic field of exercise science, its disciplines, with a special emphasis on Kinesiotherapy, and their impact on healthy lifestyle, disease prevention and rehabilitation.

EXS 265, 266 **Two Credits Each**

THERAPEUTIC EXERCISES AND SPORTS (SO)

Introduction to therapeutic physical activities and sports that afford the disabled success, recognition, and approval among a variety of handicapping conditions.

EXS 291 **Three Credits**

CARE & PREVENTION OF ATHLETIC INJURIES

PREREQUISITES: PED 287, PED 287L

Theoretical foundation for care and prevention of athletic injuries, while addressing anatomy, medical conditions, and evaluation techniques with emphasis on basic first aid skills.

EXS 292 **Three Credits**

STRESS MANAGEMENT

PREREQUISITES: Anatomy/Physiology I and II

This course offers a comprehensive and proactive approach to stress management and prevention. Students will investigate and critically analyze factors that cause stress within their lives and discuss how those stressors can be managed by the use of various techniques.

EXS 300 **Three Credits**

EXERCISE PHYSIOLOGY

PREREQUISITES: Anatomy/Physiology I and II

This course is concerned with the study of how the body responds, adjusts, and adapts physiologically to the acute stress of exercise, or physical activity, and the chronic stress of physical training so that appropriate application are considered for safe exercise programming to include injury prevention and rehabilitation.

EXS 300L **One Credit**

EXERCISE PHYSIOLOGY LAB

PREREQUISITES: Anatomy/Physiology I and II

This course is designed to familiarize students with basic laboratory procedures and tests and to provide experience in subject recruitment, data collection, and abstract presentation. This course is a co-requisite to the Exercise Physiology Lecture class.

EXS 355 **Three Credits**

ANATOMICAL KINESIOLOGY (FO)

ANATOMICAL KINESIOLOGY (FO)

PREREQUISITES: PED 287, 287L, 288, 288L, or BIO 165, 166 (Lab Fee: \$30)

Study of anatomical terminology and gross human osteology, anthropology, mycology, neurology, and angiology.

EXS 356 **Three Credits**

BIOMECHANICS OF HUMAN MOTION (SO)

PREREQUISITES: EXS 355; MTH 153

Analysis of the functions and mechanics of human motion as applied to human movement with emphasis on qualitative movement analysis to improve performance and prevent injury.

EXS 357 **Three Credits**

ORGANIZATION AND MANAGEMENT OF EXERCISE

SCIENCE (FO)

PREREQUISITES: EXS 170

Introduction to the basic processes of administration and management in health professions that afford a variety of broad-based managerial functions and detailed administrative actions for students.

EXS 363 **Three Credits**

CLINICAL ASPECTS OF AGING

PREREQUISITES: EXS 300

Clinical Aspects of Aging is designed to expose students to the important aspects of the application of the principle of fitness evaluation and prescription to the older adult population with emphasis on the physiology of aging, motivational techniques, and evaluation and programming with attention to chronic conditions. The role of good health habits and physical exercise in modifying functional age and quality of life of older adults will also be presented and proactive.

EXS 369 **Three Credits**

RESEARCH METHODS AND STATISTICAL EVALUATION (FO)

PREREQUISITE: MTH 153

Introduction to the role of valid, reliable and objective testing methods in evaluation and decision making. Basic study design and statistical method prepare the student to make fundamental decisions using norm and criterion referenced criteria.

EXS 380 **Three Credits**

STRESS MANAGEMENT

PREREQUISITES: Anatomy/Physiology I and II, Exercise Physiology, and Kinesiology ("C" grade or higher) and at least junior status

This course offers a comprehensive and proactive approach to stress management and prevention. Students will investigate and critically analyze factors that cause stress within their lives and discuss how those stressors can be managed by the use of various relaxation techniques and practice strategies and techniques to initiate and maintain lifestyle changes that will help to both manage and prevent stress.

EXS 430**Three Credits****NEUROLOGICAL & PATHOLOGICAL FOUNDATIONS IN EXERCISE**

PREREQUISITES: PED 287 & PED 288

Survey of illness relating to neurological dysfunction, and the nature and physiological consequence of disease processes for healthy and diseased populations.

EXS 445**Three Credits****THERAPEUTIC MODALITIES (FO)**

PREREQUISITES: EXS 355, 356, 447, 447L

Introduction to the body's physiological response to the various clinical techniques and therapeutic modalities used in the rehabilitation process.

EXS 447**Three Credits****PHYSIOLOGICAL BASES OF EXERCISE (SO)**

PREREQUISITES: Anatomy/Physiology I and II, and Kinesiology ("C" grade or higher)

This course is concerned with the study of how the body responds, adjusts, and adapts physiologically to the acute stress of exercise or physical activity and the chronic stress of physical training so that appropriate applications are considered for safe exercise programming to include injury prevention and rehabilitation..

EXS 447L**One Credit****PHYSIOLOGY OF MUSCULAR EXERCISE****LABORATORY (SO)**

COREQUISITE: Anatomy/Physiology I and II, Exercise Physiology, and Kinesiology

This course is designed to familiarize students with basic laboratory procedures and tests and to provide experience in subject recruitment, data collection, and abstract presentation. This course is a co-requisite to EXS 447.

EXS 483**Three Credits****CLINICAL KINESIOLOGY I (FO)**

Prerequisite: EXS 355, 356

Practical application of the knowledge with emphasis on physical musculoskeletal function, neurological involvement, goniometry, anthropometry, and gait analysis.

EXS 484**Three Credits****CLINICAL KINESIOLOGY II (SO)**

PREREQUISITE: EXS 355, 356; or PED 356

Introduction to the development of rehabilitation as an integral part of comprehensive medical care and its application to restore persons with physical and emotional impairments to the optimal level of functional independence. Consideration of neurological dysfunction/rehabilitation, orthopedic/rehabilitation, prosthetics, orthotics, respiratory and cardiac dysfunction.

EXS 489**Three Credits****ADVANCED ATHLETIC TRAINING (SO)**

PREREQUISITE: EXS 237

Introduction to injury prevention techniques, specific athletic injuries, and the techniques used to enhance the healing process.

EXS 491**Three Credits****CLINICAL EXPERIENCE PRACTICUM (SO)**

PREREQUISITE: EXS 483

COREQUISITE: EXS 484

This course is the clinical experience practicum course required for the Kinesiotherapy program. The course is taken concurrently with some of the required Kinesiotherapy internship hours. It will include discussion and lecture on topics about appropriate and inappropriate exercise interventions.

EXS 493 E and F**Six Credits Each****CLINICAL INTERNSHIP IN EXERCISE SCIENCE (EE)**

PREREQUISITES: Completion of all Didactic Course Work

Practicum experiences require 1,000 hours of supervised field work conducted at an approved setting which provide the opportunity to utilize and personalize knowledge gained in the classroom in a practical environment.

FASHION DESIGN (FDM)**FEM 142****Three Credits****INTRODUCTION TO FASHION INDUSTRY (FO)**

Survey of Fashion Industry processes and procedures as related to the provision of apparel and related items for individuals and their families. Opportunity provided for study of fashion-related careers.

FDM 143**Three Credits****PRINCIPLES OF APPAREL DESIGN AND PRODUCTION**

Survey of methods and procedures associated with the fit of flat fabrics to the human body.

FDM *149**Two Credits****APPAREL PRODUCTION I (EE)**

Study of basic procedures used in the conversion of fabric to acceptable wearing apparel. (Students who demonstrate exceptionally high construction skills may opt to test out of the course).

FDM *149 **Two Credits**

APPAREL PRODUCTION I (EE)

Study of basic procedures used in the conversion of fabric to acceptable wearing apparel. (Students who demonstrate exceptionally high construction skills may opt to test out of the course).

FDM *150 **Two Credits**

APPAREL PRODUCTION II (EE)

PREREQUISITE: FDM 149 or equivalent

Emphasis on perfecting sewing skills using more challenging patterns and fabrics to create quality garments with an introduction to simple pattern modification techniques.

FDM 151 **One Credit**

FRESHMAN REVIEW (SO)

PREREQUISITES: FDM 149, 150

Evaluation of mastery of garment construction techniques. Special assignments may be prescribed for persons needing additional skill development.

FDM 210 **Three Credits**

SOCIO-PSYCHOLOGICAL ASPECTS OF CLOTHING (SO)

Survey of socio-psychological and economic factors affecting selection and use of clothing by individuals and families.

FDM *250 **Three Credits**

PATTERNMAKING I (EE)

PREREQUISITES: FDM 149, 150

Using draping, flat pattern, and drafting procedures to develop and construct one original muslin garment in half or full size.

FDM *251 **Three Credits**

DESIGN STUDIO I (EE)

PREREQUISITES: FDM 149, 150, 250

Introduction to design research. Completion of a full-size, original designed garment or garment ensemble is required.

FDM 253 **One Credit**

SOPHOMORE DESIGN REVIEW (EE)

COREQUISITE: FDM 251

Evaluation of competency in the application of apparel line development theory.

FDM 334 **Three Credits**

TEXTILES (FO)

Study of factors that influence the tactile behaviors of natural and man-made fabrics during garment design, manufacture and wear with emphasis on fiber/fabric properties, production, and finish.

FDM 362 **Three Credits**

FASHION FORECASTING and SOURCING (SO)

Explorations in the use of the Internet and other resources to determine trends and sources related to fashion apparel and accessories.

FDM *365 **Two Credits**

DESIGN STUDIO II (EE) PREREQUISITE: FDM 364

Studio practice in the creation and production of original fashion apparel using computer applications.

FDM 366 **Three Credits**

APPAREL PRODUCTS EVALUATION (EE)

PREREQUISITE: FDM 149

Development of visual and verbal precision in the identification, classification, and evaluation of quality in apparel structures.

FDM 368 **One Credit**

JUNIOR DESIGN REVIEW (SO)

COREQUISITE: FDM 365

Evaluation of student progress in documenting the professional portfolio in fashion and accessory design.

FDM 373 **Three Credits**

FASHION HISTORY (EE)

Introduction to social, economic, technological, cultural, and aesthetic factors influencing trends in design, merchandising, production, distribution, and consumption of textiles and apparel over time.

FDM *387 **Three Credits**

VISUAL MERCHANDISING (EE)

PREREQUISITES: FIA 114, 180

Study of merchandising displays and promotion with emphasis on store design, in-store visual display and store windows.

FDM 395P **Three Credits**

FASHION MERCHANDISING PRACTICUM (EE)

PREREQUISITE: Junior Standing

Developing a field experience plan that results in 75 hours of paid employment in an apparel-related agency.

FDM *449 **Three Credits**

DESIGN COLLECTIONS

PREREQUISITES: FDM 368; Junior Standing

Developing original line of apparel and/or accessory items for one of the major industry apparel categories. A minimum of 5 items must be included.

FDM 454 **Three Credits**

CURRENT ISSUES IN FASHION DESIGN/

MERCHANDISING (EE) PREREQUISITE: Senior Standing

Seminar course in which emerging issues related to the fashion industry will be explored.

FDM *495 **Three Credits**

DESIGN STUDIO III PREREQUISITE: FDM 449

Independent study, with faculty guidance and evaluation, resulting in the spring fashion show or gallery exhibition.

FDM 496 **Three Credits**

FASHION MERCHANDISING INTERNSHIP (EE)

PREREQUISITE: FDM 395

Two hundred hours of supervised work experiences in an approved apparel retail agency are required. With faculty approval, plans for this experience may be submitted and the experience completed during summer prior to senior year.

** Courses require contact hours equal to twice the credit hours offered.*

FINE ARTS (FIA)

FIA 114 **Three Credits**

BASIC DESIGN (FO)

Study of basic elements of two-dimensional design and visual communication using a variety of media. Emphasis on visual problem-solving and critical decision making.

FIA 115 **Three Credits**

BASIC DESIGN II (SO)

Exploration of color using the basic elements and principles of two-dimensional design, including color theory and the practical application of theory in solving visual problems using a variety of media.

FIA 120 **Three Credits**

DRAWING (FO)

Development of ability to see and record through the use of a variety of drawing media, providing knowledge of line, shape, light and shade, texture, composition, and perspective. Emphasis on drawing in still life, the live model, and outdoor sketching.

FIA 121 **Three Credits**

DRAWING (SO)

PREREQUISITE: FIA 120

Development of ability to see and record through the use of variety of drawing media, providing knowledge of line, shape, light and shade, texture, composition, and perspective. Emphasis on drawing in still life, the live model, and outdoor sketching.

FIA 140 **Three Credits**

CERAMICS (FO)

Introduction to modeling and sculpturing of tiles, panels, plaques, small figures in high and low relief, and in the round from plastic materials, casting in plaster, coiling, building, pressing and decorating pottery.

FIA 141 **Three Credits**

CERAMICS (SO)

PREREQUISITE: FIA 140

Introduction to modeling and sculpturing of tiles, panels, plaques, small figures in high and low relief, and in the round from plastic materials, casting in plaster, coiling, building, pressing and decorating pottery.

Introduces students to the foundations of the principles of photography and fundamental camera techniques using a digital single lens reflex (DSLR) camera. Requires outside shooting and lab work. Computer experience is advised.

FIA 160 **Three Credits**

LETTERING (FO)

Study of various techniques in poster layouts; practice in freehand pen and brush lettering; study of old style and modern alphabets; designing monograms, book covers and jackets, and constructing, printing, and illustrating a book.

FIA 161 **Three Credits**

LETTERING (SO)

PREREQUISITE: FIA 160

Emphasis on how lettering can enhance the career of a professional artist or art educator. Assignments are often in the form of design problems requiring a convergence of skills from all classes.

FIA 165 **Three Credits**

FOUNDATIONS OF PHOTO 1

PREREQUISITE: None

Introduces students to the foundations of the principles of photography and fundamental camera techniques using a digital single lens reflex (DSLR) camera. Requires outside shooting and lab work. Computer experience is advised.

FIA 166 **Three Credits**

FOUNDATIONS OF PHOTO 2

PREREQUISITE: FIA 165

This course emphasizes principles of photography and intermediate camera techniques in photography, where students will continue to create more imagery based on the competency introduced in FIA 165. This class has added features requiring advanced shooting assignments and a higher level of understanding of the use in Adobe Photoshop techniques as presentation tools. This class will also require more outside shooting and lab work. Computer experience is required.

FIA 201 **Three Credits**

BASIC ART APPRECIATION (E)

Survey of the arts (architecture, painting, and sculpture) conducted through a series of lectures, slides, and art films. Emphasis on the elements that go into the making of a work of art, the artists' works related to the world around them, and an explanation of the periods of art.

FIA 211 **Three Credits**

FASHION DRAWING (FO)

PREREQUISITE: FIA 114

Introduction to drawing from the live model and other sources. Emphasis is on developing skills necessary for competent illustration of the figure for fashion drawings.

FIA 214 **Three Credits**

CRAFT DESIGN (SI)

Experimentation with basic processes and individual problems in woodcarving, ceramics, leather, metal, textiles and plastics. Develops appreciation of artistic craftsmanship, research, lectures, demonstration and participating experiences.

FIA 216 **Three Credits**

CRAFT DESIGN (SI)

PREREQUISITE: FIA 214

Experience with various materials related to contemporary and traditional craft forms, related to object making which uses originality of concept and design.

FIA 220 **Three Credits**

LIFE DRAWING (FO)

PREREQUISITES: FIA 120 and 121

Drawing from live models in an attempt to familiarize the student with various approaches to the figure.

FIA 221 **Three Credits**

LIFE DRAWING (FO)

PREREQUISITES: FIA 120, 121, and 220

Drawing from live models in an attempt to familiarize the student with various approaches to the figure.

FIA 234 **Three Credits**

PAINTING (FO)

PREREQUISITES: FIA 114; 115;120; 121

Introduction to acrylic or oil painting with emphasis on a variety of painting techniques, composition and color mixing. Individual development stressed through class critiques. Museum and gallery visits required.

FIA 235 **Three Credits**

PAINTING (SO)

PREREQUISITES: FIA 114; 115; 120; 121; 234

Introduction to acrylic or oil painting with emphasis on a variety of painting techniques, composition and color mixing. Individual development stressed through class critiques. Museum and gallery visits required.

FIA 240 **Three Credits**

SCULPTURE (FO)

Introduction to the basic rules and techniques of sculpture, familiarizing students with the various tools and materials peculiar to this area. Emphasis on clay, plaster of Paris, wire and plastics, and traditional materials such as wood, stone, and metal, wherever feasible. Elementary sculpture is bas-relief and in the round.

FIA 241 **Three Credits**

SCULPTURE (SO)

PREREQUISITE: FIA 240

Introduction to the basic rules and techniques of sculpture, familiarizing students with the various tools and materials peculiar to this area. Emphasis on clay, plaster of Paris, wire and plastics, and traditional materials such as wood, stone, and metal, wherever feasible. Elementary sculpture is bas-relief and in the round.

FIA 250 **Three Credits**

INTRODUCTION TO ANIMATION (FO)

PREREQUISITES: FIA 114, 115, 120, 121, or Permission of the Instructor

Introduction to the history, careers, and production skills in animation art which provides hands-on knowledge of the various stages of production without recourse to heavy investments in supplies and professional equipment.

FIA 251 **Three Credits**

BASIC ANIMATION (SO)

PREREQUISITE: FIA 250

Development of the historical knowledge of animation and the advancement of personal animation production skills through a hands-on studio class.

FIA 260 **Three Credits**

INTRODUCTION TO GRAPHIC DESIGN (FO)

Fundamental principles of graphic design, organized as a series of problems in visual communication including a variety of working methods, developing designs from the initial conceptual stage through final production phase. Computer experience recommended.

FIA 261 **Three Credits**

PRINTMAKING WORKSHOP (FO)

Fundamental understanding of various printmaking media through the demonstration and execution of basic technical methods combined with discussion of the aesthetic considerations involved in the creation of original prints.

FIA 262 **Three Credits**

PRINTMAKING WORKSHOP (SO)

PREREQUISITE: FIA 261

Fundamental understanding of various printmaking media through the demonstration and execution of basic technical methods combined with discussion of the aesthetic considerations involved in the creation of original prints.

FIA 265 **Three Credits**

STUDIO LIGHTING 1

PREREQUISITES: FIA 165, FIA 166

Examines advanced lighting and camera techniques under controlled studio conditions. Includes digital camera use, electronic flash, advanced lighting techniques, color temperature and filtration, and lighting ratios. Requires outside shooting and lab work. At least two semesters of continuous and relevant software application experience is required.

FIA 266 **Three Credits**

STUDIO LIGHTING 2

PREREQUISITES: FIA 165, FIA 166, FIA 265

Reinforces more advanced lighting and camera techniques under controlled studio and on location conditions. Includes advanced camera use, electronic flash, advanced lighting techniques, and lighting ratios with speed lights and studio strobes. Also increases the amount of work to include food, product, and people as subject matter and cultivating and producing conceptual ideas. Requires outside shooting and lab work. Computer experience is mandatory.

FIA 270 **Three Credits**

HISTORY OF ART SURVEY I (FO)

Survey of architecture, painting, and sculpture designed to promote understanding and enjoyment of the fine arts through a series of lectures, slides, and art films. Emphasis on technical, social, historical, and thematic issues from prehistoric art through Gothic.

FIA 271 **Three Credits**

HISTORY OF ART SURVEY II (SO)

PREREQUISITE: FIA 270

Survey of architecture, painting, and sculpture designed to promote understanding and enjoyment of the fine arts through a series of lectures, slides, and art films. Emphasis on technical, social, historical, and thematic issues from the Renaissance through contemporary.

FIA 280 **Three Credits**

COMPUTER APPLICATIONS IN THE ARTS (E)

Study of the concepts and skills necessary to explore the use of computers in the arts. Emphasizes intuitive understanding of technical material and encourages artistic experimentation with computer-related ideas.

FIA 295 **Three Credits**

SOPHOMORE/JUNIOR REVIEW (SI)

This course is a review of student work in their first two years in the Fine Arts program. Faculty will evaluate the student's strengths and discuss areas that may require further development. The student's portfolio must include two works from each studio course completed at Norfolk State University and a written narrative statement for each piece of work must also be submitted.

FIA 314 **Three Credits**

FINE ARTS AND METHODS (SI)

Introduction to a wide variety of creative, problem-solving experiments with art materials for prospective or in-service teachers or students from other professions.

FIA 315 **Three Credits**

ART UNITS WITH OBSERVATION (SI)

PREREQUISITE: FIA 314

Extension of the theory and practice of art education to guide art majors in a series of unit and lesson planning activities.

FIA 320 **Three Credits**

INTERMEDIATE DRAWING (FO)

PREREQUISITES: FIA 120 and 121

Enhancement of the ability to translate physical and mental stimuli into tangible, visual images engaging in a variety of technical assignments designed to expand the creative thought process.

FIA 321 **Three Credits**

INTERMEDIATE DRAWING (SO)

PREREQUISITES: FIA 120, 121, and 320

Enhancement of the ability to translate physical and mental stimuli into tangible, visual images engaging in a variety of technical assignments designed to expand the creative thought process.

FIA 323 **Three Credits**

INTERNATIONAL ANIMATED FILM HISTORY

Survey of the history of the animated feature film from its creation in the late 1930's. Focus on the filmmaking, studios, trends and traditions, and their influence on popular culture worldwide.

FIA 334 **Three Credits**

ART COMPOSITION AND PAINTING (FO)

Emphasis on the strengthening of organization principles of good drawing and design within a painting, including the application of effective painting methods, techniques, and thematic concepts.

FIA 335**Three Credits****ART COMPOSITION AND PAINTING (SO)**

PREREQUISITES: FIA 234, 334

Emphasis on the strengthening of organization principles of good drawing and design within a painting, including the application of effective painting methods, techniques, and thematic concepts.

FIA 340**Three Credits****INTERMEDIATE CERAMICS (FO)**

PREREQUISITES: FIA 140, 141

Opportunity to execute individual programs, making use of stoneware temperature, reduction, and raku firing.

FIA 341**Three Credits****INTERMEDIATE CERAMICS (SO)**

PREREQUISITES: FIA 140, 141, 340

Opportunity to execute individual programs, making use of stoneware temperature, reduction, and raku firing.

FIA 350**Three Credits****INTERMEDIATE ANIMATION I (SI)**

PREREQUISITES: FIA 220, 221, 250, 251

Development of intermediate skills in character design and animation coupled with computer animation production. Further development of skills in "clean-up," "inbetweening," "layout," "special effects," and "background."

FIA 351**Three Credits****INTERMEDIATE ANIMATION II (SI)**

PREREQUISITES: FIA 220, 221, 250, 251, 350

Develops the intermediate skills in character design and animation, coupled with computer animation production. Further development of the student's skills in "clean-up," "inbetweening," "layout," "special effects," and "background."

FIA 360**Three Credits****TYPOGRAPHY (FO)**

Introduction to communication problem solving through the visual language. Exploration of the fundamentals of typography and typographic design through a series of experimental and practical projects.

FIA 361**Three Credits****ADVANCED PRINTMAKING (FO)**

PREREQUISITES: FIA 261, 262

Exploration of the art of lithography and either intaglio or relief prints.

FIA 362**Three Credits****GRAPHIC DESIGN I (FO)**

PREREQUISITE: FIA 260

Foundation of commercial art including video and the Web. Emphasis on layout, typography, computer graphics, photography, video and the various processes of reproduction as they pertain to graphic design.

FIA 363**Three Credits****GRAPHIC DESIGN II (SO)**

PREREQUISITE: FIA 362

Study of commercial art including video and the Web. Emphasis on layout, illustration, typography, computer graphics, photography, video, animation (such as Flash), and the various processes of reproduction as they pertain to graphic design.

FIA 365**Three Credits****FASHION PHOTO 1**

PREREQUISITES: FIA 265, FIA 266

This course is a confluence of Fashion Design and Fashion Photography. In this intersection, Photography and Fashion are examined as forms of communication and culture. Through cultural and media studies theory, we will examine how fashion makes meaning, and how it has been valued through history, popular culture, and media institutions, focusing on the relationship between fashion, visual self-presentation, and power. The course will interrogate Fashion Design and Photography in terms of its productions and consumption, addressing its role in relation to identity and body politics (gender, race, sexuality, class) art and status, nationhood and the global economy, celebrity and Hollywood culture, youth cultures and subversive practices. Requires outside shooting and lab work. Computer experience is mandatory.

FIA 366**Three Credits****FASHION PHOTO 2**

PREREQUISITE: FIA 265, FIA 266, FIA 365

This course continues to examine Fashion as a form of communication and culture. Students will build on their past class experiences and development to continue working on creating a photography portfolio suitable to fulfilling a position with a photography studio and/or creating their own. Students will also work with one another, creating and taking on selected faux jobs, to receive a better understanding of how a fashion studio is run and how to deal with different jobs, such as Art Directors, Makeup/Hair Stylists and clients. Requires outside shooting and lab work. Computer experience is mandatory.

FIA 370**Three Credits****AFRICAN/AFRO-AMERICAN ART (E)**

Survey of African and African American art from the first millennium B.C. to the present, which examines painting, sculpture, architecture, and the lesser arts of metallurgy, design and textiles.

FIA 372**Three Credits****INTRODUCTION TO FIBERS (SI)**

Study of contemporary sculptural forms in the following categories soft sculpture, body adornments, container forms, and wall hangings. Techniques used are wrapping, coiling, weaving, offloom weaving, knot forming, trapunto, and fabric manipulation.

FIA 373**Three Credits****FASHION ILLUSTRATION AND LAYOUT (EE)**

Study of the mechanics of fashion layouts from the initial sketch to the camera-ready design. Emphasis on basic techniques and integrating fashion illustration with typography.

FIA 374**Three Credits****ADVANCED FIBERS**

PREREQUISITE: FIA 372

Fundamentals of working with fibers using manipulative and basic skills to establish a fiber vocabulary, heighten sensitivity to materials, and impart knowledge of fibers and forms.

FIA 380**Three Credits****COMPUTER IMAGING (E)**

PREREQUISITE: FIA 280

Introduction to the process of involving electronic media in the production of visual images using the computer and its peripheral devices. Emphasis on two-dimensional still images, with attention to animation, web design, and presentations.

FIA 420**Three Credits****ADVANCED DRAWING (FO)**

PREREQUISITES: FIA 120/121, 220/221, 320/321

Establishment of individual responses to the environment while building drawing concepts by working in series and presenting work in a professional manner.

FIA 421**Three Credits****ADVANCED DRAWING (SO)**

PREREQUISITES: FIA 120/121, FIA 220/221, FIA 320/321, and 420

Establishment of individual responses to the environment while building drawing concepts by working in series and by presenting work in a professional manner.

FIA 434**Three Credits****ADVANCED PAINTING (FO)**

PREREQUISITES: FIA 334, 335

Establishment of proficiency in the rendering of a special subject area with complete utilization of acquired skills in painting. Emphasis on freedom of expression and critical analysis of painting direction.

FIA 435**Three Credits****ADVANCED PAINTING (SO)**

PREREQUISITES: FIA 334, 335, 434

Establishment of proficiency in the rendering of a special subject area with complete utilization of acquired skills in painting. Emphasis on freedom of expression and critical analysis of painting direction.

FIA 460**Three Credits****ADVANCED GRAPHIC DESIGN (FO)**

PREREQUISITE: FIA 363

Study of the means and methods of relating pictorial images, lettering, type, paper and color for use in publicity, book design, and allied fields.

FIA 461**Three Credits****ADVANCED GRAPHIC DESIGN (SO)**

PREREQUISITES: FIA 260, 360, 362, 363

Focus on research and experimentation in specialized visual communication media in a topical studio. Extensive experience in computer graphics required.

FIA 462**Three Credits****DESIGN IN COMMERCE (FO)**

PREREQUISITES: FIA 260, 360, 362, 363, 460, and 461

Study of contemporary visual communications, with emphasis on systematic and methodological approaches to communication design through the solving of practical, complex problems in visual communication. Extensive experience in computer graphics required.

FIA 463**Three Credits****DESIGN IN COMMERCE (SO)**

PREREQUISITES: FIA 260, 360, 362, 363, 460, 461, 462

Study of graphic design with emphasis on sharpening mechanical skills, promoting professional work and compiling a strong portfolio. Developing a sense of clarity and style in visual communication of the goal.

FIA 465**Three Credits****STUDIO WORKSHOP 1**

PREREQUISITES: FIA 365, FIA 366

This advanced photography course requires photography students to apply what they have learned; what has been previously emphasized and reinforced in all their photography courses. This facilitates their ability to create a more concise portfolio in their selected concentration, which includes fashion, food, portrait, product, and fine art. This workshop will prepare the students to design, construct, and present their photographs for portfolio reviews needed to complete their preferred areas of expertise. Theoretical and historical relationships to the student artwork are discussed.

FIA 466**Three Credits****STUDIO WORKSHOP 2**

PREREQUISITES: FIA 366, FIA 465

This advanced photography course will continue emphasizing the requirements the photography students are to apply; what they have learned and what has been previously emphasized and reinforced in all their photography courses. This facilitates their ability to continue creating a more concise portfolio in their selected concentration, which includes fashion, food, portrait, product, and fine art. This workshop will prepare the students to design, construct, and present their photography for portfolio reviews needed to complete their preferred areas of expertise. Theoretical and historical relationships to the student artwork are discussed.

FIA 467**Three Credits****STUDIO WORKSHOP 3**

PREREQUISITES: FIA465, FIA 466

This advanced workshop course requires students to apply what they have learned and what has been previously emphasized and reinforced in all their related courses. This facilitates their ability to create a more concise portfolio in their selected concentration, which includes pertinent and instructor approved subject choice. This workshop will prepare the students to design, construct, and present their work for portfolio reviews needed to complete their preferred areas of expertise and prepare them for transition into graduate school or the work place. Theoretical and historical relationships to the student artwork are discussed, reinforced, and applied.

FIA 468**Three Credits****STUDIO WORKSHOP 4**

PREREQUISITES: FIA 465, FIA 466, FIA 467

This advanced workshop course requires students to apply what they have learned and what has been previously emphasized and reinforced in all their related courses. This facilitates their ability to create a more concise portfolio in their selected concentration, which includes pertinent and instructor approved subject choice. This workshop will prepare the students to design, construct, and present their work for portfolio reviews needed to complete their preferred areas of expertise and prepare them for transition into graduate school or the work place. Theoretical and historical relationships to the student artwork are discussed, reinforced, and applied.

FIA 469**Three Credits****PRINTMAKING WORKSHOP 1 – INTAGLIO
PRINTMAKING**

PREREQUISITE: FIA 261

Designed to apply experimental methods for digital media in printmaking, this course will teach the use of digitally generated images, chemical processes in combination with traditional hand-drawn images to create intaglio prints. With a focus in printmaking workshop practice, this course will require a minimum of six hours in studio practice per week with significant time for additional research, preparation, execution and print proofing. Regular consultation between student and instructor is required to develop a strong conceptual, philosophical, and personal exploration of image-making techniques and methods, as well as the development of manual dexterity skills associated with printmaking

processes. The final products will be original handmade prints and digital print outputs, which explore the inter-relationship digital photographic, computer generated images as a means to an end for intaglio printmaking processes.

FIA 470A/B**Three Credits****PRINTMAKING WORKSHOP 2**

PREREQUISITES: FIA 261, FIA 262, FIA 469

Designed to reinforce experimental printmaking techniques, methods, concepts and philosophy in application of digital media in intaglio printmaking; will build upon content covered in FIA 469 by expanding upon the use of digitally generated images, chemical processes in combination with traditional hand-drawn images for the creation of intaglio prints. With a focus in printmaking workshop practice, this course will require a minimum of six hours in studio practice per week with significant time for additional research, preparation, execution, and print proofing. Regular consultation between student and instructor is required to develop a strong conceptual, philosophical and personal exploration of image-making processes and the development of manual dexterity skills associated with printmaking processes. The final products will be original handmade prints and digital print outputs, which explore the interrelationship of digital photographic, computer generated images as a means to an end for intaglio printmaking processes.

FIA 471**Three Credits****MODERN ART HISTORY (SO)**

PREREQUISITES: FIA 270, 271

Survey of modern art from the 19th-century avant-garde to contemporary modes of expression. Focus on movements in European and American art including the evolution of painting, sculpture, and architecture.

FIA 472**Three Credits****ENAMELING**

Study of master techniques in fusing colored glass to metal surfaces. Experiments conducted with both opaque and transparent enamels on a wide variety of metal surfaces.

FIA 473**Three Credits****JEWELRY MAKING**

Study of the concept of jewelry making with focus on usability and aesthetic quality.

FIA 474**Three Credits****FABRIC PRINTING (SI)**

Study of basic weaves enhanced by resist dyeing (ikat) and directly applied painted warps. Experiments conducted with methods of coloring and ornamenting fabrics through dyeing processes that affect material to be woven into fabric.

FIA 491/491A/491B**Three Credits****ADVANCED STUDIO PROBLEMS (E)**

PREREQUISITE: Senior Standing

Study of studio problems in drawing, painting, printmaking, graphic design, sculpture, ceramics, and photography.

FIA 492/492A/492B**Three Credits****ADVANCED STUDIO PROBLEMS (E)**

PREREQUISITE: Senior Standing or Permission of Chairman

Studio problems in drawing, painting, printmaking, graphic design, sculpture, ceramics, and photography. May be used for one semester major-field-related internship.

FIA 495**Two Credits****PORTFOLIO PREPARATION & SENIOR EXHIBITION (E)**

PREREQUISITE: To be taken only in the final semester of major course work for graduation. Preparation of a professional art portfolio which includes selecting pieces, presenting and documenting work, applying for graduate school or the profession. Portfolio reviewed by faculty and outside evaluators.

FOOD SCIENCE NUTRITION (FSN)**FSN 101****Two Credits****INTRODUCTION TO DIETETICS AND FOOD SCIENCE**

Study of dietetics history, philosophy, and career choices. Emphasis will be placed on skills, attitudes, educational preparedness, and work experiences necessary for the performance in the field of dietetics.

FSN 102**One Credit****PROFESSIONAL DEVELOPMENT AND EXPERIENCES SEMINAR**

PREREQUISITE: FSN 101, FSN 110

Exploration of opportunities in the Nutritional Sciences and Dietetics Professions. Career planning and exposure to nutrition and dietetics professionals as role models. Emphasis will be placed on orientation and development of professional behavior in the work place; evaluation and analysis of on-the-job work experiences in the dietetics and nutrition professions coupled with classroom preparation. Supervised work experience to include a minimum of thirty clock hours per semester.

FSN 110**Three Credits****THE SCIENCE OF HUMAN NUTRITION**

This course will emphasize the principles of nutrition, the six basic nutrients and related health issues. The impact of nutrition on the body systems, wellness, and disease states will be explored. Valuable insights will be gained on various eating behaviors, disease interventions, recommended dietary guidelines and tools, food safety and dietary supplements. The influences of socioeconomic, cultural, and psychological factors that determine food and nutrition behavior will also be presented.

FSN 160**Three Credits****FOOD COST CONTROL**

PREREQUISITE: MTH 153

Theoretical and practical applications of food cost control in food service systems.

FSN 312**Three Credits****PHYSIOLOGICAL AND CHEMICAL FOUNDATIONS OF NUTRITION**

PREREQUISITE: FSN 110

Study of nutritional requirements as related to individuals at different stages of the life cycle from conception to the aged.

FSN 320**Three Credits****FOOD SERVICE MANAGEMENT**

PREREQUISITES: FSN 110, FSN 160

Study of the theoretical foundations involved in the organization and management of public and private food service institutions. Emphasis is placed on personnel management and labor policies.

FSN 330**Three Credits****SCIENTIFIC FOOD DEVELOPMENT**

PREREQUISITES: CHM 221/221L, CHM 222/222L

Application of experimental methods to food preparation considering physical, chemical, and biological changes.

FSN 330L**One Credit****SCIENTIFIC FOOD DEVELOPMENT LAB**

PREREQUISITES: CHM 221/221L, CHM 222/222L

The laboratory portion of this class will provide experiments and applications that illustrate the chemical and physical changes that occur in foods and food systems during their preparation, processing, and storage.

FSN 340**Three Credits****NUTRITION EDUCATION**

PREREQUISITES: FSN 110, FSN 312

The study of the skills of communication, business management, and education for the performance of the task of translating nutrition information into nutritious eating patterns and healthy behavior.

FSN 356**Three Credits****ADVANCED NUTRITION AND HUMAN METABOLISM**

PREREQUISITES: FSN 312, CHM 312, CHM 312L, BIO 469/469L

Understanding the interrelations among nutrients in metabolism, effect of diets on the biophysical process and factors that may alter nutrient requirements in humans.

FSN 410**Three Credits****NUTRITION IN AGING**

PREREQUISITES: FSN 110 or FSN 312

This course will provide the basic knowledge about the particular nutrition and food needs of older people. Emphasis is placed on making informed decisions about the nutritional needs of the elderly with careful attention to seeking alternatives and evaluating each client as an individual.

FSN 426 **Three Credits**

NUTRITION IN DISEASE

PREREQUISITES: FSN 356 or BIO 165/166

Advanced study of nutrition as it related to human disease with theoretical dietary management.

FSN 426L **One Credit**

NUTRITION IN DISEASE LAB

PREREQUISITES: FSN 356 or BIO 165/166

A course which provides experience in completing nutritional assessments, energy-nutrient analysis, non-energy nutrient analysis, and drug-nutrient interactions. These structured laboratory experiments via case studies and simulations will reinforce the concepts covered in FSN 426: Nutrition in Disease.

FSN 449 **Three Credits**

NUTRITION IN SPORTS AND FITNESS

PREREQUISITES: FSN 110 OR FSN 312

The application of nutrition principles to enhance the health of the athlete and to optimize physical performance including: metabolic demands of exercise, fuel source, energy expenditure, vitamins and minerals, fluids and electrolytes, and diet planning. Also, the study of nutrient and quasi nutrient supplementation efficacy or ergogenic aids and eating disorders as they relate to the athlete.

FSN 450 **Three Credits**

PROFESSIONAL SEMINAR

PREREQUISITES: FSN 356, FSN 426/426L

The course allows for preparation and delivery of literature review. Exploration into problems in dietetics, nutrition, food science, health education and public health including history, mission, terminology, philosophy, ethical principles and scientific foundations which will provide a basis for research.

FSN 460 **Three Credits**

QUANTITY FOOD PRODUCTION

PREREQUISITES: FSN 160, FSN 320

Selection, use, and care of institutional equipment. Food preparation principles applied to quantity production. Experiences in a food service establishment.

FSN 426L **One Credit**

NUTRITION IN DISEASE LAB

PREREQUISITES: FSN 356 or BIO 165/166

A course which provides experience in completing nutritional assessments, energy-nutrient analysis, non-energy nutrient analysis, and drug-nutrient interactions. These structured laboratory experiments via case studies and simulations will reinforce the concepts covered in FSN 426: Nutrition in Disease.

FSN 449 **Three Credits**

NUTRITION IN SPORTS AND FITNESS

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PROFESSIONAL SEMINAR

PREREQUISITES: FSN 356, FSN 426/426L

The course allows for preparation and delivery of literature review. Exploration into problems in dietetics, nutrition, food science, health education and public health including history, mission, terminology, philosophy, ethical principles and scientific foundations which will provide a basis for research.

FSN 460 **Three Credits**

QUANTITY FOOD PRODUCTION

PREREQUISITES: FSN 160, FSN 320

Selection, use, and care of institutional equipment. Food preparation principles applied to quantity production. Experiences in a food service establishment.

FSN 484 **Three Credits**

RURAL/URBAN NUTRITION

PREREQUISITES: FSN 312, FSN 426, FSN 426L

Cultural and scientific aspects of food and nutrition as applied to the individual, the family, and community.

FRENCH (FRN)

FRN 111 **Three Credits**

ELEMENTARY FRENCH I (EE)

Introduction to fundamentals of pronunciation, grammar, structure, vocabulary, conversation, and reading.

FRN 112 **Three Credits**

ELEMENTARY FRENCH II (EE)

PREREQUISITE: FRN 111 or Equivalent

Introduction to fundamentals of pronunciation, grammar, structure, vocabulary, conversation, and reading.

FRN 113 **Three Credits**

BASIC CONVERSATION I (SI)

Practical use of daily conversation for students who have had no previous training with emphasis on idiomatic expressions and acquiring fluency. Conducted largely in French.

FRN 114 **Three Credits**

BASIC CONVERSATION II (SI)

Practical use of daily conversation for students who have had no previous training with emphasis on idiomatic expressions and acquiring fluency. Conducted largely in French. (May be taken independently.)

FRN 211 **Three Credits**

INTERMEDIATE FRENCH I (SI) PREREQUISITE:
FRN 112 or Equivalent

Review of grammar, reading moderately difficult prose, oral practice, and written compositions.

FRN 212 **Three Credits**

INTERMEDIATE FRENCH II (SI)
PREREQUISITE: FRN 211 or Equivalent

Intensive and extensive study and reading of modern prose, oral practice, and composition.

FRN 213 **Three Credits**

SCIENTIFIC FRENCH
PREREQUISITE: FRN 211 or Equivalent

Intensive and extensive reading of scientific French in chemistry, physics, biology, mathematics, psychology, etc. Course may be taken in lieu of FRN 212 by majors in science, mathematics, and psychology to satisfy language requirements.

FRN 214 **Three Credits**
ENTREPRENEURIAL FRENCH (SI)

PREREQUISITE: FRN 112

Study of concepts of French business language and culture to prepare them to be competitive in an increasingly global marketplace.

FRN 215 **Three Credits**

INTERMEDIATE CONVERSATION (SI)
PREREQUISITE: FRN 212 or Equivalent

Practical use of daily conversation with emphasis on idiomatic expressions and acquiring fluency. Conducted largely in French.

FRN 216 **Three Credits**

EXPLICATION DE TEXTES

PREREQUISITE: FRN 215 or Equivalent

Preparation for the study of advanced texts from literary and linguistic points of view. Conducted in French.

FRN 220 **Three Credits**

FRENCH CIVILIZATION I (SI)

PREREQUISITE: FRN 212 or Equivalent

Survey of the most important elements of French civilization, geography, economy, political history, arts, sciences, and institutions. Conducted in French.

FRN 315 **Three Credits**

ADVANCED CONVERSATION (SI)

PREREQUISITE: FRN 215 or Permission of Instructor

Intensive and extensive practice in the use of oral French. Conducted in French.

FRN 320 **Three Credits**

FRENCH CIVILIZATION II

PREREQUISITE: FRN 215 or Permission of Instructor

Survey of the most important elements of contemporary French culture. Conducted in French.

FRN 321 **Three Credits**

SURVEY OF FRENCH LITERATURE I (SI)

PREREQUISITE: FRN 216 or Equivalent

Study of representative works of French literature from the beginning to the end of the 17th century. Conducted in French.

FRN 322 **Three Credits**

SURVEY OF FRENCH LITERATURE II (SI)

PREREQUISITE: FRN 216 or Equivalent

Study of representative works of French literature from the beginning of the 18th century to the middle of the 20th century. All literature courses beyond this level are conducted in French.

FRN 326 **Three Credits**

FRENCH LITERATURE OF THE 16TH CENTURY

PREREQUISITE: FRN 321

Study of the representative works of the period: the poetry of the Pleiades and the prose of Rabelais and Montaigne.

FRN 330 **Three Credits**

LITERATURE OF THE 17TH CENTURY

PREREQUISITE: FRN 321

Origins and foundations of French Classicism, including its philosophical and artistic implications and its main representatives: Descartes, Pascal, Corneille, Racine, Moliere, La Fontaine, and minor classicists.

FRN 331 **Three Credits**

LITERATURE OF THE 18TH CENTURY
CENTURY PREREQUISITE: FRN 322

Presentation of the main trends in the political and literary developments of the Age of Enlightenment. Special emphasis on the contributions of Voltaire, Rousseau, Montesquieu and the Encyclopedists.

FRN 332 **Three Credits**
LITERATURE OF THE 19TH CENTURY

PREREQUISITE: FRN 322

Emphasis on Romanticism, Realism, Naturalism and Symbolism dealing with the chief tendencies of contemporary literature. Analysis of texts and literary theories in class discussions.

FRN 333 **Three Credits**
LITERATURE OF THE 20TH CENTURY

PREREQUISITE: FRN 322

Study of representative authors and works presenting contemporary literary trends.

FRN 381F **Three Credits**

THE TEACHING OF FOREIGN LANGUAGES IN SECONDARY SCHOOLS
PREREQUISITE: SED 380

Study of methods and materials in the teaching of modern foreign languages.

FRN 412 **Three Credits**
LANGUAGE FOR PROFESSIONALS (SI)
PREREQUISITE: FRN 315 or Permission of the Instructor

Intensive and extensive practice in the language of technical, vocational, and professional areas with emphasis on comprehension, speaking, reading, and writing. Special emphasis on the student's secondary area of concentration.

FRN 413 **Three Credits**
INDIVIDUALIZED LANGUAGE FOR PROFESSIONALS
PREREQUISITE: FRN 315 or Permission of the Instructor

Intensive practice in the language of technical, vocational or professional areas.

FRN 450 **Two Credits**
PHONETICS (SI)
PREREQUISITE: FRN 215 or Equivalent

Analysis of the phonetic features of French including systematic exercises in pronunciation, intonation, and reading of prose and poetry.

FRN 454 **Three Credits**

ADVANCED GRAMMAR AND COMPOSITION (SI)
PREREQUISITE: FRN 215 or Equivalent

Intensive review and application of French grammar including intensive practice in writing and study of vocabulary and idioms.

FRN 485 **Two Credits**
CONTRASTIVE LINGUISTICS
PREREQUISITE: FRN 215 or Equivalent

Introduction to the principle phonological, morphological, syntactical, and lexical contrasts between French and English. No previous work in linguistics is required.

FRN 490 **Three Credits**
SENIOR SEMINAR
PREREQUISITE: Departmental Permission

Independent research on a topic approved by the departmental advisor, and completed under the guidance of that advisor.

GENERAL STUDIES (GST)

GST 200 **Zero Credit**

STUDY SKILLS SEMINAR

This course is designed to provide students with skills that are essential for successful study. Students will be given strategies to identify academic strengths and weaknesses, manage time, take notes, improve writing, and enhance test-taking skills. Weekly activities will promote utilization of positive study habits.

GST 345H or 346H **Three Credits**

HONORS SEMINAR

Interdisciplinary topic-driven research course is designed for qualifying Juniors and Seniors in the NSU Honors College. Successful completion of the honors seminar course is required to graduate as a Parsons Vice-Presidential Scholar or a Parsons Presidential Scholar. Students taking the course for the first time should enroll in GST 345H; however, students may choose GST 346H for a second time with a new topic.

GST 445H or 446H **Three Credits**

HONORS SEMINAR

Interdisciplinary topic-driven research course is designed for qualifying Juniors and Seniors in the NSU Honors College. Successful completion of the honors seminar course is required to graduate as a Parsons Vice-Presidential Scholar or a Parsons Presidential Scholar. Students taking the course for the first time should enroll in GST 445H; however, students may choose GST 446H for a second time with a new topic.

GEOGRAPHY (GEO)

GEO 130 **Three Credits**

PRINCIPLES OF GEOGRAPHY (EE)

Survey of the basic factors that explain the interactions and adaptations of human beings with their environments. Critical thinking and writing competencies are introduced and emphasized.

GEO 331 **Three Credits**

ECONOMIC GEOGRAPHY

Study of the distribution, development, and conservation of natural resources; the growth of industrial regions, transportation lines, and trade centers; and interdependence of nations.

GEO 335 **Three Credits**

GEOGRAPHY OF VIRGINIA

Study of the geographic regions of Virginia and the influence of geographic factors on social and economic problems in Virginia, past and present.

GEO 336 **Three Credits**

POLITICAL GEOGRAPHY (SI)

Examination of the relationship between politics and territory including how natural environments, distributions of populations and resources, levels of technological developments influence political decisions and the world geographic realms.

GEO 337 **Three Credits**

GEOGRAPHY OF AFRICA (SI)

Study of the natural regions of the continent, the physical and human resources and activities, the urban centers and economic and political problems and potentials. Emphasis on the analysis of problems and situations in regions and countries in the Islamic and Sub-Saharan African Realms.

GEO 338 **Three Credits**

CARIBBEAN GEOGRAPHY

This course examines Caribbean

cultural and historical landscapes. The course will give an overview of the cultures, environmental and social issues, historical geography, geopolitics, economics and social processes in the Caribbean. Focus will be on current developments in the Caribbean islands and the role of this region in the world.

GEO 360 **Three Credits**

INTRODUCTION TO GIS

Students will be introduced to the concepts and theories of geographic information systems to build a foundation for understanding and using geographical information systems. This course and program are not about learning any one piece of software or software training. Course emphasis is on creation, visualization, and analysis of geographically referenced data.

GEO 366/366H

Three Credits

ILLCIT & ILLEGAL GEOGRAPHIES (SI)

The concepts "moral" and "legal" are socially defined and dynamic in nature. This course considers how social values associated with illicitness and illegality have ever-changing spatial expression including conformity, concealment, resistance and transgression. Students will also consider the roles that cultural landscapes play in this dynamic geography.

GERMAN (GRM)

GRM 111 **Three Credits**

ELEMENTARY GERMAN I (SI)

Introduction to the fundamentals of pronunciation, grammar, structure, vocabulary, conversation, and reading.

GRM 112 **Three Credits**

ELEMENTARY GERMAN II (SI)

PREREQUISITE: GRM 111 or Equivalent

Introduction to the fundamentals of pronunciation, grammar, structure, vocabulary, conversation, and reading.

GRM 211 **Three Credits**

INTERMEDIATE GERMAN I (SI)

PREREQUISITE: GRM 112 or Equivalent

Review of grammar, reading moderately difficult prose, oral practice, and written compositions.

GRM 212 **Three Credits**

INTERMEDIATE GERMAN II

PREREQUISITE: GRM 211 or Equivalent

Intensive and extensive study and reading and oral practice and composition.

GRM 213 **Three Credits**

SCIENTIFIC GERMAN

PREREQUISITE: GRM 211 or Equivalent

Intensive and extensive reading of scientific German in chemistry, physics, biology, mathematics, psychology, etc. Course may be taken in lieu of GRM 212 by majors in science, mathematics, and psychology to satisfy language requirements.

GRM 500

SUPERVISED INDEPENDENT STUDY IN GERMAN

PREREQUISITE: Senior or Graduate Level

Variable content course in German language, literature, history, or culture for students who wish to study beyond the normal four-semester sequence of foreign language.

HEALTH EDUCATION (HED)

HED 100 **Two Credits**

PERSONAL AND COMMUNITY HEALTH (EE)

Study of a basic knowledge of current personal and community health problems which empowers students to make informed decisions and helps them to develop more positive attitudes towards practicing a lifestyle of healthful living.

HED 170 **Three Credits**

PERSONAL AND COMMUNITY HEALTH (FO)

Study of a basic knowledge necessary for meeting the state's approved professional preparation and responsibilities in the area of health.

HED 254 **Three Credits**

SCHOOL & COMMUNITY HEALTH EDUCATION PROGRAMS

PREREQUISITE: HED 170

Investigates the history, theories, principles and practices underlying the organization and administration of school and community health education programs. Considers the role of the health educator in the relationship between the school health program and the total school program; principles, goals, structure of community agencies providing health education programs.

HED 368/368A **Three Credits**

CURRICULUM & METHODS IN HEALTH EDUCATION (EE)

PREREQUISITES: HED 100, 170

Study of teaching and learning concepts; curriculum planning and organization; classroom management skills; professional behavior; subject matter delivery, and assessment and evaluation strategies. Successful completion of the course satisfies the state's endorsement requirements in health education.

HED 442 **Three Credits**

GENERAL SAFETY EDUCATION (SO)

PREREQUISITE: HED 170

Study of safety education including home safety, traffic safety, industrial safety, and pedestrian safety which provides healthy and enjoyable living in an environment that often presents hazards and chances for accidents.

HEALTH REHABILITATION SCIENCE (HRS)

HRS 120 **One Credit**

INTRO TO HEALTH REHABILITATION AND RELATED SERVICES (E)

PREREQUISITES: None

INTRO TO HEALTH REHABILITATION AND RELATED SERVICES (E)

PREREQUISITES: Non

This course serves to introduce students to the science of health rehabilitation (i.e., physical and mental,) and the health rehabilitation service professions. It includes information on their historical, philosophical, legal, educational, ethical and professional foundations. Students also will be introduced to the scope of rehabilitation practice across a wide variety of public and private settings, both nationally and internationally.

HRS 220 **Three Credits**

MEDICAL ASPECTS OF DISABILITY AND CHRONIC ILLNESS (FO)

PREREQUISITES: HRS 120, BIO 105 or higher (with grades of B or better)

Introduction to the structure of medicine in the United States; survey of medical specialties and terminology; survey of body systems; common malfunctions; therapeutic services; and restorative techniques.

HRS 230 **Two Credits**

REHABILITATION TECHNOLOGIES (FO)

PREREQUISITES: HRS 120 (with grade of B or better)

Principles and applications of rehabilitative assessment and therapy, with special focus on the use of technology to enhance access to rehabilitation care. Overview of sensorimotor systems, as related to human performance and usability analysis. Models for access engineering and telerehabilitation, with focus on accessible design strategies, telemonitoring and teletherapy, and wireless and augmentative communication technologies will be examined. Rehabilitation biomechanics for seated mobility and for manipulation tasks will be explored. Innovations in assessment and intervention strategies for neurorehabilitation will also be included, as well as opportunities for hands-on laboratory demonstrations.

HRS 320 **Three Credits**

LEGAL & ETHICAL ASPECTS OF REHABILITATION (SO)

PREREQUISITES: HRS 120, HRS (with grades of B or better)

This course provides a foundation for rehabilitation services and decision-making through examination of client entitlements, eligibility, advocacy and protections. Health care law, public policy, ethics and confidentiality are discussed in this course. The obligations and impact of mandated reporting are also explored. This course will also examine the historical and legislative evolution of rehabilitation in America.

HRS 420 **Three Credits**

PSYCHOSOCIAL ASPECTS OF HEALTH

REHABILITATION (FO)

PREREQUISITES: HRS 320 (with grades of B or better)

Social and psychological factors related to adjustment or adaptation to a disability and to the provision of rehabilitation services. This course also examines the psychological and social factors related to adjustment and diverse populations, including minorities, women, persons with disabilities, and older adults

HRS 430 **Three Credits**

VOCATIONAL ASPECTS OF HEALTH REHABILITATION (FO)

PREREQUISITES: HRS 320 (with grades of B or better)

This course is a survey of vocational aspects of disability, occupational classification as it is practiced in the United States, and career development for persons with disabilities. It examines the vocational impacts of disability, and the methods used to classify work activity, jobs and occupations. Job analysis as an outgrowth and function of occupational classification is explored. Job placement activities, labor market analysis, and post employment services for persons with disabilities are examined.

HRS 440 **Three Credits**

CASE MANAGEMENT IN REHABILITATION (SO)

PREREQUISITES: HRS 230, HRS 320, HRS 420, HRS 430 (with grades of B or better)

This course will assist the student in integrating theory into practice, exploring various treatment strategies and interventions, and examining the relationship between consumer/client and counselor. Emphasis will be in the following specific areas: case management, and rehabilitation counseling procedures and techniques.

HEALTH RELATED PROFESSIONS (HRP)

HRP 120 **Three Credits**

MEDICAL TERMINOLOGY

A study of medical terminology including abbreviations, prefixes, suffixes, root words, and technical terms with emphasis on proper spelling and usage.

HRP 220 **Three Credits**
COMMUNITY MEAL MANAGEMENT

This course focuses on selecting foods and making diets/menus based on various chronic diseases which have implications for individuals at different stages of life. The influence of culture in the meal planning process will be emphasized. Educational experiences in community facility will be arranged. Cooking demonstrations will show healthy food preparations.

HRP 310 **Three Credits**

CURRENT TRENDS IN HEALTH CARE DELIVERY

A study of the health care industry, governmental and voluntary care organizations in health care, the functions of health care providers, the organizational patterns of health care facilities, current issues, and forces impacting on the health care delivery system.

HRP 320 **Three Credits**
AFRICAN AMERICAN HEALTH

PREREQUISITE: Junior standing or special permission from the department chair.

This course will systematically examine the health care issues of African Americans in comparison to other racial/ethnic minority populations. The racial disparities in the leading causes of death identified by the Centers of Disease Control and Prevention will be examined in the context of the five social determinants of health (physical environment, access to health services, biological and genetics, social environment and individual behavior). Additionally, the course will examine the delivery of health care as impacted by health related events and the changing social, political and economic influences.

HEALTH SERVICES MANAGEMENT (HSM)

HSM 300 **Three Credits**

HEALTH SERVICES MANAGEMENT (EE)

Orientation to the health delivery system, and the role of the health services manager and/or supervisor which provides organization theory and practical information about health administration. Investigation of the organizational and environmental context within which a health manager works.

HSM 300L **One Credit**
HEALTH SERVICES MANAGEMENT LAB (EE)

Study of various problems and work settings of a health manager. Visit to various community health facilities required. The course introduces techniques to help students learn how to apply basic rules of APA style in writing assignments, literature reviews, research proposals, and presentations.

HSM 310 **Three Credits**

HEALTH PERSONNEL MANAGEMENT (EE)

PREREQUISITES: HSM 300, HSM 300L

Principles and practices in personnel recruitment, selection, management, and utilization. Emphasis on unique characteristics of professional, technical, skilled and unskilled health-care workers. In-depth study of legal responsibilities, contract administration, grievance procedures, and in-services training and education.

HSM 311 **Three Credits**

LEGAL ASPECTS & ETHICS OF HEALTH-CARE DELIVERY (EE)

PREREQUISITES: HSM 300, HSM 300L

Presentation of the historical perspectives, current status, and future projections in the field. Concepts of corporate liability, malpractice, and professional negligence. Informed consents, incident reporting, and the importance of accurate and complete records. Emphasis on the prevention of legal actions. Examination of the role of ethics and moral decision-making in the everyday life of the health-service manager with special emphasis on the various professional Codes of Ethics.

HSM 331 **Four Credits**

HEALTH FINANCIAL MANAGEMENT (EE)

PREREQUISITES: HSM 300 & 300L, ECN 211 & 212, ACC 201 & 202

Overview of economic theory and practice in the financial interactions between consumers and providers of health-care services, including all forms of public and private prepayment mechanisms. Broad orientation to financial management problems and practices is provided.

HSM 368 **Three Credits**

HEALTHCARE MARKETING (EE)

PREREQUISITES: HSM 300, HSM 300L

This course provides a broad background in marketing with an emphasis in the foundations of healthcare marketing, market management, interpersonal skills for the healthcare marketer, and strategic actions of the healthcare marketer.

HSM 387 **Three Credits**

POPULATION HEALTH (EE)

PREREQUISITES: HSM 300, HSM 300L, HSM 310, HSM 311

This course is an overview of the essentials of population health practices to address the prioritized healthcare needs of

of populations with a goal of making recommendations to improve access to care, improve quality of care and reduce cost of care. Health issues will be examined from a population health perspective.

HSM 397 Three Credits

HEALTHCARE INFORMATION SYSTEMS (EE)

PREREQUISITES: CSC 150, HSM 300, HSM 300L

This course focuses on the impact of government policy and healthcare reform on healthcare information technology (HIT), the various elements of an information system, HIT governance and strategic planning, key operational and technical processes for maximizing HIT efficiencies and effectiveness, electronic health records and financial applications, and major techniques used to evaluate HIT investment.

HSM 451 Three Credits

COMPREHENSIVE HEALTH PLANNING (EE)

PREREQUISITES: HSM 300, HSM 300L

History of the development of health planning in the United States with understanding the principles, policies, and tools related to the planning process. Examination of the philosophical foundations of various methodologies of the planning process.

HSM 454 Three Credits

LONG-TERM CARE ADMINISTRATION (EE)

PREREQUISITES: HSM 300, HSM 300L

Study of the long-term care health- delivery system to gain a working knowledge of the holistic approach to the care of the elderly and long- term care individuals. An overview of the emotional and physiological needs of individuals who require long-term care. Emphasis on finances, management, standards, and compliance for quality.

HSM 460 Three Credits

PUBLIC HEALTH ADMINISTRATION

PREREQUISITES: HSM 300, HSM 300L

Study of public health administration at the local, state, and national level. The focus is on the administration skills needed to achieve the goals of public health. Emphasis is on leadership and management, health policy, finance and marketing, public health surveillance, health systems and disaster preparedness.

HSM 470 Three Credits

MANAGERIAL EPIDEMIOLOGY (EE)

PREREQUISITES: HSM 300 & 300L, HSM 310 & 311, HSM 331

This course will illustrate how health services managers can use epidemiological concepts and tools to improve management decisions. Emphasis is placed on population health management, managerial epidemiological analyses, assessment of medical care processes/outcomes are taught in this course. Some of the topics covered will be study designs, descriptive epidemiology, quantitative measures, and related terminology.

HSM 494 Six Credits

HEALTH SERVICES MANAGEMENT INTERNSHIP (E)

PREREQUISITES: All HSM required courses except HSM 470 & 497

On-the-job experience in selected institutions and agencies providing first-hand knowledge of the operational world by devoting full- time effort to observing and participating in management functions (minimum of 250 work hours). Routine written reports, a major management project, and periodic peer-advicing are required with faculty direction provided by telephone and on-site visitations.

HSM 497 Three Credits

HEALTH SERVICES MANAGEMENT PROBLEMS AND

RESEARCH (EE)

PREREQUISITES: HSM 300, 300L, 310, 311, 331, MTH 250 & Senior Standing

This course provides an introduction to research design. Applying statistical and research techniques to a problem in health care, each student will be required to develop a research proposal to its completion.

HISTORY (HIS)

HIS 100 Three Credits

HISTORY OF WORLD SOCIETIES, PART 1 (E)

A comparative study of societies and cultures and their interactions from the earliest humans to the sixteenth century. Encourages critical thinking and geographical understanding: offers exercises in writing, discussion, and computer_applications.

HIS 101 Three Credits

HISTORY OF WORLD SOCIETIES, PART 2 (E)

A comparative study of societies and cultures and their interactions from the sixteenth century to the present, emphasizing modern issues. Encourages critical thinking and geographical understanding: offers exercises in writing, discussion and computer applications.

HIS 102 Three Credits

UNITED STATES HISTORY to 1865 (E)

A comprehensive survey of American history from the development of indigenous cultures to the passage of the Thirteenth Amendment in 1865. Encourages critical thinking and geographical understanding: offers exercises in writing, discussion, and computer applications.

HIS 103 Three Credits

UNITED STATES HISTORY SINCE 1865 (E)

A comprehensive survey of American history from the passage of the Thirteenth Amendment in 1865 to the present. Encourages critical thinking and geographical understanding: offers exercises in writing, discussion, and computer_applications.

HIS 104 Three Credits

UNITED STATES HISTORY 1865 TO PRESENT (E)

A comprehensive survey of American history from the abolition of slavery in 1865 to the present. Encourages critical thinking and geographical understanding: offers exercises in writing, discussion and computer applications.

HIS 205 Three Credits

INTRODUCTION TO THE STUDY OF HISTORY (FO)

PREREQUISITE: HIS 102 and 103, or Sophomore standing

Introduction to the general problems of historical study and to the skills required for conceptualizing, analyzing, and synthesizing historical materials. Students develop primary source analysis skills and hone writing skills. This course is a prerequisite for HIS 305 and HIS 497.

HIS 304 Three Credits

WESTERN THOUGHT, GLOBAL CHALLENGES (SI)

PREREQUISITES: Junior or Senior Standing, or Sophomore with the Permission of the Instructor

Studies the development and characteristics of Western thought and ideologies and their application to modern global issues and challenges. Emphasizes critical thinking, writing, and oral competency.

HIS 305 **Three Credits**

THREE Rs OF HISTORY: READING, WRITING and RESEARCH (SO)

An in-depth engagement with the craft of reading, writing, research and rhetoric for historians, this class reinforces the skills learned in History 205 and builds upon them by introducing historical research methods and discussing the variety of historical thought and theory.

HIS 310 **Three Credits**

AGE OF ENCOUNTER, 1415-1607 (SI)

PREREQUISITE: ENG 102 or Permission of the Instructor

This course examines European overseas expansion from the exploration of West Africa in 1415 to the settlement of Jamestown colony in 1607. It focuses on cross-cultural encounters among Europeans, Africans, Native Americans, and Asians, with an emphasis on the Columbian Exchange, the African slave trade, Atlantic commerce, European colonization, and the Asian contribution to overseas exploration.

HIS 311 **Three Credits**

COLONIAL AMERICA (SI)

PREREQUISITE: ENG 102 or Permission of the Instructor

This course examines the European colonization of the Americas from Jamestown colony in 1607 to the passage of the Stamp Act in 1765. It focuses on cultural encounters among British, French, Spanish, Dutch, and other European settlers, the indigenous societies of the Atlantic and Pacific rims, and free and enslaved West and West-Central African peoples.

HIS 312 **Three Credits**

THE AMERICAN REVOLUTION, 1765-1788 (SI)

PREREQUISITE: ENG 102 or Permission of the Instructor

This course examines the era of the American Revolution from the passage of the Stamp Act in 1765 to the ratification of the US Constitution in 1788. Special topics include the origins of the American Revolution, the social history of the militia, loyalists, the Articles of Confederation, the U.S. Constitution, and the consequences of the war for women and African-Americans.

HIS 313 **Three Credits**

US EARLY NATIONAL PERIOD, 1788-1815 (SI)

PREREQUISITE: ENG 102 or Permission of the Instructor

This course examines the development of the federal government from the ratification of the US Constitution through the end of the War of 1812. The course will emphasize the development of an American social and political identity and the challenges the new nation faced as it developed not only a strong central government, but also struggled to be recognized internationally.

HIS 314 **Three Credits**

ANTEBELLUM AMERICA, 1815 - 1850 (SI)

PREREQUISITE: ENG 102 or Permission of the Instructor

This course examines the social, cultural and political history of the United States during the antebellum period, from the end of the War of 1812 to the election of Abraham Lincoln as president. Particular attention will be paid to the changing role of women, the struggle to end slavery and the arrival of new immigrants and their position in American society.

HIS 315 **Three Credits**

THE CIVIL WAR AND RECONSTRUCTION, 1850-1877 (SI)

PREREQUISITE: ENG 102 or Permission of the Instructor

This course examines the social, cultural, political and military history of the United States from the Compromise of 1850 to the end of Reconstruction in 1877. Special attention will be given to the role of African-Americans in the Civil War and the changing role of race in culture and politics in the South during Reconstruction.

HIS 319 **Three Credits**

COLONIAL LATIN AMERICA (SI)

Study of the Southern Americas in the early modern period of Atlantic World History, including the North American Spanish Frontier: Historiographical issues; myths and historical memory; processes of identity formation, particularly among indigenous people, African-descended subjects, immigrants and women.

HIS 320 **Three Credits**

INDEPENDENT LATIN AMERICA (SI)

Survey of the political, social, economic, and cultural history of the Latin American nations since the early nineteenth century.

HIS 328 **Three Credits**

HISTORY OF VIRGINIA (O)

PREREQUISITE: Junior or Senior classification

This course traces the history of Virginia from Native American kingdoms through colonial development to the present. Virginia was one of the most important English colonies in North America; later, it would be one of the most important states in the American Union. Its decision to leave the Union for the Confederacy was very controversial and painful, and it took the Old Dominion nearly hundred years to recover from that path. Today, Virginia has become one of the wealthiest and most influential states again, thanks in part to government and military spending.

HIS 335 **Three Credits**

AFRICAN-AMERICAN HISTORY (E)

Survey of African-American history from its African origins to the abolition of slavery in 1865. Emphasizes critical thinking, writing and oral competency.

HIS 336 **Three Credits**

AFRICAN-AMERICAN HISTORY (E)

Survey of African-American history from the abolition of slavery in 1865 to the present. Emphasizes critical thinking, writing and oral competency.

HIS 337 **Three Credits**

U.S. WOMEN'S HISTORY

PREREQUISITES: ENG 102 or Permission of the Instructor

This course examines women's participation in the founding, development and growth of the United States from the colonial period through the 20th century with special focus on women's struggle for legal, economic and social equality.

HIS 340 **Three Credits**

FROM ENGLAND TO GREAT BRITAIN, (1485 TO 1832) (O)

Study of the transformation of Tudor and Stuart England into eighteenth-century Great Britain. Emphasis on the making and maintenance of England's limited monarchy through its own civil war to the end of the Napoleonic period. Explanation of the causes and consequences of Great Britain becoming the leading industrial and commercial power by 1832.

HIS 341 **Three Credits**
GREAT BRITAIN SINCE 1832 (O)
 Study of the rise and fall of Great Britain as the world's leading industrial and imperial power. Focuses also on the effects of decolonization, including African, West Indian, and Asian immigration to the United Kingdom, as well as the making of the welfare state after the Second World War.

HIS 343 **Three Credits**
EUROPE FROM THE RENAISSANCE TO WATERLOO (SI)
 Study of modern Europe from its beginnings through the final defeat of Napoleon including Late Renaissance, Commercial Revolution, religious conflicts, absolute rulers, the Industrial Revolution, the French Revolution and Napoleon as a son of the French Revolution.

HIS 345 **Three Credits**
EUROPE, 1815 TO 1914 (SI)
 Examines the balance of power from the Congress of Vienna to the First World War; Examines the rise of liberalism, nationalism, and imperialism. Looks carefully at the spread of representative democracy and industrialization.

HIS 346 **Three Credits**
TWENTIETH-CENTURY EUROPE (O)
 Study of the problems of the states of Europe, emphasizing the causes of World War I, the terrible and unpredicted consequences of "total" war, the chaotic interwar period, the effects of the Great Depression, the emergence of totalitarian ideologies, World War II and the Holocaust, and the reconstruction of Europe amidst the context of Cold War.

HIS 348 **Three Credits**
ANCIENT HISTORY (SS)
 Study of the great civilizations of Mesopotamia, Egypt, Greece and Rome. Emphasis on political, economic, social, religious, and cultural life. Assessment of the rise of Christianity and the Germanic invasions culminating in the end of the Western Roman Empire.

HIS 349 **Three Credits**
MEDIEVAL HISTORY (SI)
 Study of invasions of the "barbarians" and the rise of national states in Europe. Emphasis on the origins and development of institutions and cultures.

HIS 350 **Three Credits**
BORDERS AND MOVING PEOPLES
 Examines the contemporary history of border violence, migration patterns, government controls, and ideologies of ethnic and national belonging in global and comparative perspective. Emphasis on understanding how racially exclusive and politically authoritarian ideologies triumph over the diverse and democratic promises of revolution, nation building, & construction of the people.

HIS 360 **Three Credits**
LATIN AMERICA: ARGENTINA, BRAZIL, AND CHILE (SI)
 Analysis of the political, economic, and social histories of these nations, 1810 to present.

HIS 361 **Three Credits**
LATIN AMERICA: READINGS IN LATIN-AMERICAN HISTORY (SI)
 Intensive directed reading for exceptionally able students.

HIS 362 **Three Credits**
INTRODUCTION TO THE MODERN MIDDLE EAST, PART 1 (FO)
 Survey of the foundation and development of the Islamic civilization to the foundation of the Ottoman Empire providing close study of the Ottoman Empire in the late 18th century and throughout the 19th century.

HIS 363 **Three Credits**
INTRODUCTION TO THE MODERN MIDDLE EAST, PART 2 (SI)
 Detailed study of the problems attending the creation of the modern states of the Middle East with special emphasis on the interwar period and the various independence movements.

HIS 364 **One to Three Credits**
READINGS IN AMERICAN HISTORY (SI)
 Readings and discussions in selected historical problems.

HIS 365 **Three Credits**
CARIBBEAN HISTORY (SI)
 Cultures and comparative historical experiences in the Caribbean, from the early modern European expansion to the present. Analyze the ways in which race, ethnicity, gender and class contributed to shared memories and political discourse as well as to social conflict, revolution, dictatorship and democracy, and the intersections of this past with the rise of the United States from the perspective of diplomacy, imperialism and migration. Thematic focus will vary.

HIS 370 **Three Credits**
EARLY AFRICAN HISTORY AND CULTURES, FROM THE BEGINNING OF HUMANKIND TO 1600
 This course introduces students to the political, social, economic, and cultural history of Africa from the beginning of humanity to the 17th century. During the semester, students explore several themes with a view to understanding the vast diversity of African people and cultures before European colonial rule. Using multiple teaching strategies to expose students to variety of viewpoints, the course emphasizes the inter-disciplinary richness of Africa's historical study, drawing interpretive paradigms from anthropology, archeology, ethnography, religion, ethno-linguistics, and geography.

HIS 371 **Three Credits**
MODERN AFRICAN HISTORY AND CULTURES, 1600-PRESENT
 This course examines the history and cultures of Africa from the 17th century to the 21st century. Emphasis will be on the internal dynamics of African societies before European colonization Africa and the global maritime networks, European colonization and African's response, end of colonization, challenges of post-colonial nation building, apartheid in South Africa, and African recovery and economic growth in the age of globalization.

HIS 372 **Three Credits**
AFRICAN DIASPORA HISTORY AND CULTURE (SI)
 Drawing on multi-disciplinary perspective and materials from history, arts, and humanities, this course focuses on the worldwide migrations, societies, and cultures of African-descended people as they have formed communities and interacted with other communities.

HIS 373 **Three Credits**

EAST ASIAN CIVILIZATION (SI)

Study of the civilization of ancient China from the dawn of history to the collapse of the Qin Dynasty in 206 B.C. Special consideration given to religion and philosophy and the other influences on the development of national institutions, includes brief survey of traditional Japan.

HIS 374 **Three Credits**

EAST ASIAN CIVILIZATION (SI)

Study of the civilization of medieval China from the founding of the Han Dynasty (206 B.C.) to the fall of Yuan Dynasty about 1368. Special emphasis on the introduction of Buddhism into China and the rise of NeoConfucianism, and the influence of Chinese culture on feudal Japan.

HIS 375 **Three Credits**

CONTEMPORARY ECONOMIC SYSTEM OF CHINA (SI)

Study of the agricultural, industrial, commercial, and financial institutions of the People's Republic of China with emphasis on the strategic and economic importance of Sino-American relations to the growth of the world economy and the preservation of world peace.

HIS 376 **Three Credits**

CONTEMPORARY ECONOMIC SYSTEMS OF JAPAN (SI)

Study of postwar Japan's spectacular economic growth, with emphasis on lessons that Americans can learn from the Japanese experience.

HIS 377 **Three Credits**

BLACK LEADERS, THEN AND NOW (SI)

Survey of the role of Black leaders in American history from the period of exploration and discovery to the present.

HIS 380 **Three Credits**

AMERICAN MILITARY HISTORY (E)

Study of the development of the American military establishment, policies, and strategies from the American Revolution to the present.

HIS 404 **Three Credits**

WORLD HISTORY FOR WORLD HISTORY TEACHERS (SI)

World History for World History Teachers has three specific learning outcomes: (1) to enhance the content knowledge of teacher candidates about the major trends, periods, and themes in world history; (2) to enable teacher candidates and/or future researchers to understand the purposes and histories of world history; and (3) to have teacher candidates to design a course syllabus, for a standard half of a world history survey - either ancient or modern, featuring an array of relevant readings and appropriate activities.

HIS 411 **Three Credits**

TWENTIETH-CENTURY RUSSIA (SI)

Study of the background of the 1917 revolution, the emergence of the USSR, and its impact upon other nations.

HIS 418 **Three Credits**

SOUTHERN HISTORY (SI)

Survey of the social, political, and economic development of the Southern United States.

HIS 420/520 **Three Credits**

COMPARATIVE HISTORY OF MINORITIES IN THE U.S.

FROM THE COLONIAL PERIOD TO THE PRESENT (SI)

Focus on the diversity of America's population, the factors that shaped the coming of various people to America, their adjustments to a new homeland, and the contributions that various groups have made.

HIS 438 **Three Credits**

THE UNITED STATES FROM THE 1890s TO 1932 (SI)

Study of the impact of industrialism, urbanization, racial problems, foreign policy, and World War I upon American society.

HIS 439 **Three Credits**

RECENT AMERICAN HISTORY FROM 1932 TO PRESENT (SO)

Study of social, economic, and political changes, including the Great Depression, the New Deal, World War II, the Cold War, the 1950s and 1960s, to the end of the century. Also includes the Black Revolution and other contemporary developments. This required course for majors reinforces and emphasizes student competencies in writing, speaking and critical thinking.

HIS 448 **Three Credits**

SLAVERY IN THE ATLANTIC BASIN (SI)

Study of the development of slavery in the Atlantic Basin from its Western African/Islamic/European origins through the dreaded Middle Passage to the Caribbean, Latin America, and the American South.

HIS 451 **Three Credits**

GERMANY FROM THE RENAISSANCE TO UNIFICATION (SI)

Study of German history from the TransAlpine Renaissance and the Protestant Revolution through unification under Bismarck, economic, political, social, and cultural forces. Emphasis on the religious struggle, the evolution of Prussia, and the impact of the Napoleonic wars.

HIS 452 **Three Credits**

GERMANY SINCE UNIFICATION (SI)

Study of political, cultural, and military development under Bismarck and William II, the First World War, defeat, and republican government; Nazism, the Second World War and defeat; partition, the postwar struggle to regain prestige and reunification.

HIS 475 **Three Credits**

EMERGENCE OF MODERN CHINA (1368/1911) AND

MODERN JAPAN (1867/1921) (SI)

Study of political, economic, social, and intellectual currents in China and Japan and their responses to the Western challenge.

HIS 476 **Three Credits**

MODERN CHINA AND MODERN JAPAN (SI)

Study of the interplay of ideology, nationalism, economic ideas, and culture in twentieth-century Japan and China.

HIS 490 **One to Three Credits**

SPECIAL TOPICS IN HISTORY (SI)

Opportunities to study and examine historical problems of special interest.

HIS 494 **Three Credits**

INTERNSHIP (SI)

PREREQUISITE: Senior with minimum of 24 Hours of History

Development of knowledge and skills in fields related to history, for example, museum work or digital projects. A minimum number of clock hours in an approved placement is required.

HIS 497 **Three Credits**

HISTORICAL RESEARCH (FO)

PREREQUISITES: Minimum of 15 hours Lower Level (1XX, 2XX) History Courses and 9 hours of Upper Level (3XX, 4XX) History Courses.

In this capstone course, students formulate and carry out an original historical research project which applies their writing, critical thinking and public speaking skills to a self-directed research project. With the help of the instructor, students develop a historical question, find relevant primary and secondary sources using archives, library holdings and digital resources, write an article-length paper and present their research to the class.

HIS 501 **Three Credits TOPICS**

IN AMERICAN HISTORY (O)

Lecture or seminar topics to be selected by course instructor.

HIS 502 **Three Credits TOPICS**

IN EUROPEAN HISTORY (O)

Lecture or seminar topics to be selected by course instructor.

HIS 503 **Three Credits TOPICS**

IN NON-WESTERN HISTORY (O)

Lecture or seminar topics to be selected by course instructor.

HIS 504 **One-Three Credits**

WORLD HISTORY TOPICS FOR WORLD HISTORY TEACHERS (O)

This course will feature selected topics of particular interest in world history to local teachers and school districts.

HIS 516 **Three Credits**

AMERICA AND THE RISE OF THE CITY: 1865 TO THE PRESENT (O)

Study of population growth, industrialization and urbanization, urban decay, and renewal providing related reading in the economic, political, and governmental development from the Post Civil War town to the modern megropolis.

HUMANITIES (HUM)

HUM 210 **Three Credits**

HUMANITIES (FO)

Study of the creative expression of the Western world, from the Italian Renaissance to the twentieth century. Emphasis on the philosophical and social matrix out of which these artistic expressions have developed.

HUM 211 **Three Credits**

HUMANITIES (SO)

Exploration of the Non-Western World. Emphasis on an understanding of the great religious traditions and the world views which have shaped the values, expressions, and the social structures of the people.

INDUSTRIAL MANAGEMENT TECHNOLOGY (IMT)

IMT 170 **One Credit**

INTRODUCTION TO TECHNOLOGY (EE)

Development of an understanding in all aspects of industry and technology springing from the human abilities to reason, solve problems, create construct, and use materials imaginatively.

IMT 205 **Three Credits**

INDUSTRIAL SAFETY AND MANAGEMENT (EE)

Study of the nature, background, importance, and trends in industrial safety. Major emphasis on regulatory aspects of industrial safety, identification and controlling safety hazards, accident and injury analysis, development of safety goals, material handling; and fire prevention and protection.

IMT 244 **Three Credits**

INDUSTRIAL SPECIFICATIONS AND TECHNICAL DOCUMENTATION (EE)

PREREQUISITE: ENG 102

Development of proficiency in writing technical reports through collecting, organizing, and presenting materials in specialized areas.

IMT 303 **Three Credits**

INTERNSHIP IN TECHNOLOGY (EE)

Experience in developing and refining skills that requires a transition into career-related positions relative to specialty programs. The purpose of the internship is to acquire a minimum level of practical application of the theory and content in the specialty program.

IMT 340 **Three Credits**

ENGINEERING ECONOMICS (FO)

Evaluation of engineering alternatives by quantitative methods. Application to problems in depreciation of assets, their replacement analysis, break-even points, increment costs, and production alternatives.

IMT 412 **Three Credits**

INFORMATION SYSTEMS FOR TECHNOLOGISTS (EE)

This course focuses on how managers can apply knowledge of IT tools to solve technical problems and find new opportunities to improve their organizations. Problems relating to security, risk analysis, telecommunications, human-machine interaction, database management and artificial intelligence are addressed.

IMT 413**Three Credits****PROJECT MANAGEMENT (EE)**

A thorough coverage of the all aspects of managing a project. The process covered by the course include: project planning, organizing, creating project organization control and final project completion activities. Participant should gain a concrete understanding and foundation to successfully manage every phase of the project life cycle, work within organizational cost constraints, set goals linked directly to stakeholder needs, and utilize proven project management tools to complete the project on time and within budget.

IMT 415**Three Credits****INDUSTRIAL MAINTENANCE MANAGEMENT**

PREREQUISITES: IMT 205

Identification and appraisal of industrial maintenance management functions, organizational problems, and practices. Consideration given to key factors for optimizing maintenance efficiency and effectiveness.

IMT 420**Three Credits****LABOR AND INDUSTRIAL RELATIONS (SO)**

Discussion of why individual groups and organizations in unions, management, and government act as they do in industrial relations with emphasis on psychological and sociological factors.

IMT 423**Three Credits****MOTION AND TIME STUDY**

Methods, materials, tools and equipment of industry for purposes of improvement and standardization.

IMT 425**Three Credits****PLANT LAYOUT AND MATERIAL HANDLING**

The fundamental theories, practices, and methods for design of manufacturing facilities; materials handling equipment and services.

IMT 445**Three Credits****STATISTICAL QUALITY CONTROL (EE)**

Introduction to the principles of quality control in business and industrial engineering/technological managerial environments that provide techniques and procedures for determining and maintaining the quality of industrial products. Emphasis on random sampling, probability theories, and statistical methods for practical quality controls to ascertain if products meet industrial specifications.

INTELLIGENCE STUDIES (INS)**INS 400****Three Credits****FUNDAMENTALS OF INTELLIGENCE (EE)**

This course provides a basic overview of intelligence at the unclassified level. It includes a brief history of the development intelligence as a profession. It examines the

structure of the national Intelligence Community and its sixteen agencies. Intelligence preparation of the battle space and the use of sensors as part of the collection process and analytical methodology are briefly explored.

INS 401**Three Credits****APPLIED INTELLIGENCE RESEARCH METHODS (EE)**

This course examines the application of intelligence research methods to practical intelligence problems. Using both qualitative and quantitative methods, the course will focus on the collection analysis and presentation of data in an environment in which researchers must be cognizant of the potentially classified nature of the information being processed. The course will provide an understanding of the basic concepts of research that will assist students in completing their theses as well as provide skills they need for analysis and problem-solving in their professional careers. The class will consist of lectures as well as practice research problems to ensure students understand how to apply research methods and techniques.

INS 402**Three Credits****THEORY OF INTERNATIONAL RELATIONS (EE)**

This course is a critical survey of the forces and issues shaping contemporary global interdependencies. It addresses resources control and sharing, ethnological and ethical considerations, cultural, religious, and social peculiarities, labor, and armed conflict. The world is connected more today than at any point in history. The global discussion of how to integrate relatively new nation-states into world politics as well as enveloping African, South American, and West Asian economies into the international political economy is just the beginning. Although discussion is beginning, the practicality and movement to these positions has had momentum for the past half century. We will discuss theoretically, how to engage second and third world countries, and how they view that engagement from their perspective.

INTERDISCIPLINARY STUDIES (INT)**INT 210****Three Credits****INTRODUCTION TO INTERDISCIPLINARY STUDIES (EE)**

The first in a series of Interdisciplinary Studies courses, INT 210 introduces students to the concepts of Inter disciplinary Studies. Students are introduced to the academic disciplines, interdisciplinary concepts and theories as well as the importance of research, communication, and critical thinking in interdisciplinary studies.

INT 290**Three Credits****PRINCIPLES OF AFRICANA STUDIES(SI)**

Provides students with exposure tot he field of Africana Studies - the study of people of African descent across the globe/diaspora. The course engages students in an interdisciplinary review of what is Africana Studies and addresses the major concepts, theories and principles involved in AFrican Studies. This course is required to fulfill the requirements for the minor in Africana Studies.

INT 311**Three Credits****PRINCIPLES OF INTERDISCIPLINARY STUDIES (EE)**

The second required course in a sequence of Interdisciplinary Studies core courses, utilizing a problem-based approach,

INT 311 reviews, enhances, and further develops key concepts, principles, theories and ideas of Interdisciplinary Studies. Emphasis is on the role of the academic disciplines, integration, and research in interdisciplinary studies.

INT 322**Three Credits****APPROACHES TO CRITICAL ANALYSIS (E)**

The third course in the sequence of Interdisciplinary Studies core courses develops the foundational skills necessary to identify, understand, and evaluate arguments as they relate to the integration of disciplinary knowledge. The course defines, develops, and examines modes of reasoning with an emphasis on reading, writing, and presenting contemporary issues.

INT 350**Three Credits****TRENDS AND ISSUES IN DIVERSE POPULATIONS**

This course is specifically and sequentially designed for the ELEMENTARY EDUCATION major.

Appropriate curriculum modifications dealing with diverse populations will be emphasized. The course includes discussion of inclusion, transition and life skills for children with exceptionalities. Curriculum materials, assessment techniques and instructional strategies are presented from the perspective of culture, race, class, and gender identities. Ten hours of observation is required for this course.

INT 360**Three Credits****FOUNDATIONS OF RESEARCH IN INTERDISCIPLINARY STUDIES (EE)**

PREREQUISITES: INT 210, INT 311, INT 322

Introduces students to research design, with particular focus on social, scientific and humanities-based approaches. As part of the sequence of core Interdisciplinary Studies courses, INT 360 investigates proper uses of selected quantitative and/or qualitative approaches according to the interdisciplinary issue at hand. Students will practice interdisciplinarity by synthesizing concepts from different disciplines and applying multiple research methods.

INT 375**Three Credits****LANGUAGE AND SOCIETY (E)**

PREREQUISITE: INT 210, INT 311

A core Interdisciplinary Studies course that highlights the social, political, economic and identifying role of language in our world. Students are introduced to the jargon of disciplines, basics in socio-linguistics, globalization, the spread of English as an hegemonic language, and the role of language in our understanding the world on macro and micro levels.

INT 376**Three Credits****AFRICAN AMERICAN LANGUAGE & CULTURE (SI)**

PREREQUISITE: ENG 101

This course introduces African American Language, the linguistic and discourse practices of Black U.S. communities. Students examine historical development, the diversity/continuity of features within this branch of African orality, issues surrounding its use, and its reciprocal significance to the Black Experience.

INT 399A**Three Credits****THE BLACK WOMAN**

Special Topics in Interdisciplinary Studies is a junior level course that provides students with an opportunity to study, examine, research and review topics, ideas and issues of a special interdisciplinary interest. Through an interdisciplinary lens, using two or more disciplinary areas, the idea, concept and construct of the Black woman is surveyed to provide a social, political, historical, and cultural understanding of her varied complex experience(s) on micro and macro levels.

INT 399E**Three Credits****INTERDISCIPLINARY OF RELIGION**

This cutting-edge special topics course explores religion from an interdisciplinary perspective: Interdisciplinary readings focus on theorists of "race" and racism, with special attention to the U.S. context of "white studies" and issues in Asian American, African American and Latina/o studies. Interdisciplinary contemporary readings concentrate on explicitly addressing issues in identity, U.S. ethnicity, and white racism, and offers opportunities for students to read in the intellectual traditions of Latino/a and Chicano/a, African-American, Asian-American and Arab-American theorists. White dissenters to white supremacy will also receive important attention. We will also explore how religion impacts other social institutions like: politics, gender, education, government, family, economics, media/technology, etc. This intersectional approach to religion will allow students to more deeply engage with religion and how it matters in our society-at-large today.

INT 411**Three Credits****IDEAS AND THEIR INFLUENCES (E)**

PREREQUISITE: INT 210, INT 311

This upper-level Interdisciplinary Studies course examines key philosophical thoughts or themes from an interdisciplinary perspective. The course utilizes students' own ideas and integrates major philosophical thoughts and ideas coming from major world institutions – religion, government, family, and education. Broadly, students examine and process a plurality of ideas, in order to critically conceptualize and investigate epistemology or how do we know what we know.

INT 412**Three Credits****CONTEMPORARY GLOBALIZATION (EE)**

This upper level Interdisciplinary Studies course exposes students to the reality of (post) modern globalization and focuses on contemporary, real world problems of high complexity. The course provides students with interdisciplinary tools for addressing global problems and offers space for producing interdisciplinary solutions.

INT 470**Three Credits****SENIOR SEMINAR (EE)**

PREREQUISITES: INT 210, INT 311, INT 322, INT 360, INT 375

Capstone course for Interdisciplinary Studies majors which provides a general review of the prerequisites for Interdisciplinary Studies core courses and provides students with practical preparation for employment opportunities. Students demonstrate their learned interdisciplinarity through the completion of an Interdisciplinary Studies capstone project (outputs include development of an electronic portfolio, mock interviews, resume building, presentations and papers).

INT 475**Three Credits****INTERDISCIPLINARY STUDIES INTERNSHIP (SI)**

PREREQUISITES: SENIOR STANDING, PERMISSION OF THE INSTRUCTOR

Practical development of interdisciplinary knowledge and skills in a field related to students' concentration area(s), performing various duties at an agency, organization, or corporation, pre-approved by internship professor. The

INT 477SL**Three Credits****SERVICE-LEARNING THESIS (SI)**

PREREQUISITES: INT 308, INT 322, INT 360, INT 375, INT 411, INT 412

COREQUISITE: INT 470

Holistic, integrative research processes that integrate concepts, language and paradigms of selected disciplines actualized via a service-learning project to collect data for analysis, synthesis, and interpretation of findings. These theory-based application projects reflect interdisciplinary studies principles, allow students to SERVE in the larger community, and documents linkages between academic theories, course content, work and themes, and the complexities of application; projects are supervised by the course instructor (and service-learning site supervisor/coordinator).

INT 477WL**Three Credits****WORK/LIFE-EXPERIENCE THESIS (SI)**

PREREQUISITES: INT 308, INT 322, INT 360, INT 375, INT 411, INT 412

COREQUISITE: INT 470

Holistic, integrative research processes that integrate concepts, language and paradigms of selected disciplines actualized via current career-based employment to collect data for analysis, synthesis, and interpretation of findings. This application based project utilizes documents and reflects interdisciplinarity in real-world experiences and are supervised by the course instructor and students' immediate supervisor/employer. Special permission of instructor required.

INT 477T**Three Credits****TRADITIONAL THESIS (SI)**

PREREQUISITES: INT 308, INT 322, INT 360, INT 375, INT 411, INT 412

COREQUISITE: INT 470

Holistic, integrative research processes that integrate concepts, language and paradigms of selected disciplines using quantitative and qualitative research methodologies to collect data for analysis, synthesis, and interpretation of findings. Foci of projects are for student to demonstrate their interdisciplinarity and are supervised by the course instructor (aka thesis supervisor).

INFORMATION TECHNOLOGY (ITE)**ITE 111****Three Credits****INFORMATION TECHNOLOGY PRINCIPLES (SO)**

An introductory course that exposes students to the academic discipline of Information Technology (IT). Pervasive IT themes; IT history, organizational, social, and ethical issues, and relationship of IT to other computing disciplines will be covered.

ITE 311**Three Credits****FUNDAMENTALS OF NETWORKING (FO)**

PREREQUISITE: ITE 111

This is an introductory course that covers the basics of how networks work, including the topics of OSI model, Internet model, network components, LANs, WANs, routers, switches, wireless communication, network security, TCP/IP Internet protocols, and network applications such as web and email. It also covers the fundamental aspects of configuring and troubleshooting network features on a Windows or Unix workstation.

JAPANESE (JPN)

JPN 111 Three Credits

ELEMENTARY JAPANESE I (SI)

Introduction to reading, writing, pronunciation, grammar, structure, vocabulary, and conversation.

JPN 112 Three Credits

ELEMENTARY JAPANESE II (SI)

PREREQUISITE: JPN 111 or Equivalent

Introduction to reading, writing, pronunciation, grammar, structure, vocabulary, and conversation.

JPN 113 Three Credits

JAPANESE CULTURE (SI)

Survey of aspects of culture and language of both traditional and modern Japan.

JPN 211 Three Credits

INTERMEDIATE JAPANESE I (SI)

PREREQUISITE: JPN 112 or Equivalent

Review of grammar, reading of moderately difficult prose, oral practice, and written composition.

JPN 212 Three Credits

INTERMEDIATE JAPANESE II (SI)

PREREQUISITE: JPN 211 or Equivalent

Intensive and extensive study and reading of modern prose, oral practice, and composition.

JOURNALISM (JRN)

JRN 210 Three Credits

ADVERTISING PRINCIPLES (FO)

Introduction to the basic principles of advertising and its practice.

JRN 220 Three Credits

BASIC WRITING (EE)

PREREQUISITE: ENG 101

Introduction to writing for all mass media, including intensive study of basic journalistic composition elements (grammar, punctuation, spelling) in preparation for professional reporting, writing, and editing courses.

JRN 221 Three Credits

News Writing (EE)

PREREQUISITES: JRN 220; ENG 102

Introduction to the fundamentals of news evaluation, gathering and writing with special emphasis on newspaper style.

JRN 240 Three Credits

PRINCIPLES OF PUBLIC RELATIONS (SO)

Analysis of the history and growth of public relations and its role within organizations including ethical standards, basic principles, and problems of public relations.

JRN 290 Three Credits

DIGITAL PHOTOGRAPHY (SI)

Study of the integration of basic photography with computer technology. Emphasis on the digital photography process through in-class discussion, field assignments and hands-on laboratory experience.

JRN 299 Three Credits

MULTICULTURALISM AND MASS MEDIA (FO)

Historical survey of participation by people of color in early publications, and the industries of print and broadcast journalism, entertainment television and film, and advertising. Emphasis on case studies and other methods to examine interactions between societal conditions and mediated reality.

JRN 313 Three Credits

ADVERTISING/PUBLIC CAMPAIGNS (SI)

Philosophy and techniques of developing an advertising campaign with emphasis on integrating all creative elements, including market research; developing advertising objectives; plans and strategies; budgeting; scheduling of media; coordination of sales promotion; and measuring effectiveness.

JRN 323 Three Credits

WRITING SPECIAL ARTICLES (SI)

PREREQUISITE: JRN 221

Study of advanced writing involving feature articles for newspapers and magazines. Emphasis on an analysis of markets for feature articles.

JRN 330 Three Credits

COPY EDITING (EE)

PREREQUISITE: JRN 221

Study of the fundamentals of copy editing, headline writing, re-writing and general copy desk work.

JRN 332 **Three Credits**

GRAPHICS DESIGN (SI)

Study of the basic theories and skills of visual communication, including the selection and editing of photographs, the use of maps, charts, graphs, artwork and other graphic-design elements. Emphasis on common graphic programs such as Quark and Adobe Photoshop.

JRN 341 **Three Credits**

PUBLIC RELATIONS PRACTICE (FO)

PREREQUISITE: JRN 240

Study of the management and decision-making process in public relations. Emphasis on the case history approach to evaluate strategic planning in a variety of situations and areas, including business, government, non-profit and education.

JRN 342 **Three Credits**

PROMOTIONAL WRITING (SO)

PREREQUISITE: JRN 210 or 240

Planning, implementing and measuring the effectiveness of public relations programs including techniques of using controlled and uncontrolled media to reach various target publics. Study of producing materials originating from public relations departments and agencies; publicity; human relations; writing and editing business, industrial, and house publications; and fund raising.

JRN 493, 495 **Three Credits**

INTERNSHIP OR PRACTICUM (EE)

PREREQUISITE: Consent of Instructor

Experience working for a newspaper or magazine, in public relations, or with an advertising department or agency. (Practicum is an on-campus position. Internship is an off-campus position.)

JRN 497 **Three Credits**

DIRECTED RESEARCH (SI)

PREREQUISITES: Consent of Instructor, Advisor and Department Head

Individual study and/or research in journalism under the guidance of a journalism instructor.

KOREAN (KOR)

KOR 111 **Three Credits**

ELEMENTARY KOREAN I

Introduces students to the basic grammar and sentence structures of Korean and to some aspects of Korean culture. The course includes reading, speaking, listening, and writing to familiarize students with Korean as it is used in communication situations of everyday life.

KOR 112 **Three Credits**

ELEMENTARY KOREAN II

PREREQUISITE: KOR 111

A continuation of the introduction to the Korean language and culture with emphasis on the basic skills of understanding, reading, speaking, and writing Korean.

LATIN (LAT)

LAT 111 **Three Credits**

ELEMENTARY LATIN (SI)

Introduction to basic sentence structure and vocabulary with attention to basic syntactic units and cases that are part of universal linguistic knowledge.

MASS COMMUNICATIONS (MCM)

MCM 210 **Three Credits**

SOCIETY AND MASS COMMUNICATIONS (EE)

Study of the socio-economic developments related to the growth and development of American newspapers, magazines, books, radio, television, motion pictures, cable and satellite communications.

MCM 211 **Three Credits**

MEDIA AND SOCIETY (EE)

Study of the socio-economic developments related to the growth and development of American newspapers, magazines, books, radio, television, motion pictures, cable and satellite communications.

MCM 220 **Three Credits**

RADIO BROADCASTING (SI)

PREREQUISITE: MCM 211 or Permission of Instructor

Introduction to WNSB-FM and radio station duties. Study of the manner in which WNSB-FM conducts its daily operations and the equipment at the station.

MCM 250 **Three Credits**

TELEVISION PRODUCTION (EE)

PREREQUISITE: MCM 211

Introduction to the fundamentals, essential tools, and techniques of television and audio operations. Structured laboratory exercises provide an understanding of theory, terminology and crew position responsibilities.

MCM 261 **Three Credits**

INTRODUCTION TO MEDIA WRITING (EE)

PREREQUISITES: ENG 102; MCM 250

Introduction to the aural writing style used in broadcast/cable programs. Primary emphasis on news writing for radio and television based on industry formula. Secondary emphasis on applying aural style to more complicated program scripts.

MCM 280 **Three Credits**

FILM HISTORY (FO)

PREREQUISITE: MCM 211

Summary of motion pictures as a distinctive medium of expression and communication including the techniques, physical basis, and history of the silent films to sound films of the leading genres, and the directors who illustrated selected phases of film evolution.

MCM 310 **Three Credits**

HISTORY OF MASS COMMUNICATIONS (SO)

PREREQUISITE: MCM 211

Study of the origin and development of mass media in the United States. Emphasis on the press, radio, television and motion pictures

MCM 315 **Three Credits**

INTERVIEWING (FO)

PREREQUISITE: MCM 211

Study of the identification and utilization of tools necessary in gathering information, setting up, preparing and conducting interviews for broadcast. Emphasis on organization of the information for use in the media and allied industry.

MCM 330 **Three Credits**

ELEC. FIELD PRODUCTION AND EDITING (FO)

PREREQUISITES: MCM 250, 261

Introduction to basic shooting, editing and lighting techniques necessary for field production. Experience shooting and editing a variety of news stories will serve as a resume tape upon completion of the course.

MCM 350 **Three Credits**

TELEVISION DIRECTING (FO)

PREREQUISITE: MCM 250

Development of television program producing and directing with emphasis on leadership skills and advanced audio-visual equipment instruction through specific laboratory exercise.

MCM 351 **Three Credits**

INTRODUCTION TO BROADCAST AND FILM CRITICISM (SO)

PREREQUISITES: MCM 211, 280

Analysis of the historical, aesthetic, and critical aspects of broadcast programs and motion pictures. Attendance and viewing of films and evaluations required.

MCM 352 **Three Credits**

SPORTS BROADCASTING (SI)

PREREQUISITE: MCM 261

Prepares students for live on-air sports broadcasting. WNSB-FM and public access cable channels will serve as laboratories for students who meet the requirements for the course. Lectures and laboratory experience emphasize fundamentals of communications, sports language and rules, interviewing and reporting techniques, and research and preparation for announcing games.

TELEVISION DIRECTING (FO)

PREREQUISITE: MCM 250

Development of television program producing and directing with emphasis on leadership skills and advanced audio-visual equipment instruction through specific laboratory exercise.

MCM 351 **Three Credits**

INTRODUCTION TO BROADCAST AND FILM CRITICISM (SO)

PREREQUISITES: MCM 211, 280

Analysis of the historical, aesthetic, and critical aspects of broadcast programs and motion pictures. Attendance and viewing of films and evaluations required.

MCM 352 **Three Credits**

SPORTS BROADCASTING (SI)

PREREQUISITE: MCM 261

Prepares students for live on-air sports broadcasting. WNSB-FM and public access cable channels will serve as laboratories for students who meet the requirements for the course. Lectures and laboratory experience emphasize fundamentals of communications, sports language and rules, interviewing and reporting techniques, and research and preparation for announcing games.

MCM 362 **Three Credits**

BROADCAST NEWS WRITING AND REPORTING (SO)

PREREQUISITE: MCM 261

Experience researching, planning, writing, producing and delivering news and public affairs material over campus media. Primary emphasis on television news. Secondary emphasis on radio, internet and new media.

MCM 363 **Three Credits**

AUDIO PRODUCTION (FO)

PREREQUISITE: MCM 250

Study of audio principles, practices, and concepts of communication for radio, television, and motion pictures. Proficiency in campus facilities, including studios and remote locations required.

MCM 390 **Three Credits**

GLOBAL MEDIA (SO)

PREREQUISITE: MCM 211

Survey of international mass media systems focusing on their development, organization, and operation. Emphasis on the similarities and differences of various systems with a critical view of the effect government has on a nation's mass media.

MCM 391 **Three Credits**

RADIO AND TELEVISION ANNOUNCING (FO)

PREREQUISITE: MCM 211; MCM 261

Emphasis on the style, manner, characteristics and performance of broadcast/cable news anchoring and reporting including talk show hosting techniques. Primary focus on participation in a TV lab environment with selected projects broadcast over the campus TV system. Secondary focus on radio, internet and new media productions.

MCM 420 **Three Credits**

INTERCULTURAL COMMUNICATION (FO)

This course introduces the learner to the process of understanding intercultural communication (e.g., communication between people from different cultures). This

course will expose the learner to the substantive theoretical issues in cross-cultural, intergroup, and intragroup communication that contribute to effective interactions among those of different cultures.

MCM 440 **Three Credits**

MEDIA LAW (EE)

PREREQUISITES: MCM 211; ENG 204

Introduction to HTML writing and web page design and creation of a multi-page website targeted to a particular audience. Usage of search engines to find relevant information and evaluate similar sites for content, structure, quality of information, purpose, bias required.

MCM 445 **Three Credits**

MEDIA ETHICS (SO)

PREREQUISITE: MCM 211

Development of a strong sense of ethical responsibility as communications professionals including case studies of ethical decision-making by news and communications organizations and analysis of ethical codes of various professional groups.

MCM 450 **Three Credits**

MEDIA THEORY AND RESEARCH (SO)

PREREQUISITE: ENG 303; MCM 211

Examination of the theory and principles of communications systems and processes including research methods commonly used by communications professionals and trends in media research.

MCM 460 **Three Credits**

CONTEMPORARY ISSUES IN MEDIA (FO)

PREREQUISITES: MCM 211; ENG 203

Analysis of current issues and problems in mass media including the roles of media, ethics in media, media criticism, the role of the media and the marketing concept.

MCM 464 **Three Credits**

ADVANCED TELEVISION PRODUCTION (FO)

PREREQUISITES: MCM 250, 261, 330, 350

Capstone course builds on writing, producing and directing skills in order to produce a weekly television program. Production of a news/magazine format, dramatic, or comedic program or segment required.

MCM 470/570 **Three Credits Each**

BROADCAST/CABLE PROGRAMMING (SO)

PREREQUISITE: Upper-Class Standing

Introduction to the field of telecommunications (broadcast, cable, and satellite) programming as it relates to programming history and development, structure and formats, program strategies, research, regulation and operating practices.

MCM 476 **Three Credits**

MEDIA SALES (FO)

PREREQUISITE: Upper-Class Standing

Study of principles, structures, strategies, and practices of broadcast, cable, and satellite programming and sales. Emphasis on mid-management areas, which are crucial to the successful operation of all broadcast properties.

MCM 485 **Three Credits**

MEDIA TECHNOLOGIES (FO)

PREREQUISITE: Senior Standing

Survey of the growth and development of domestic and global broadcasting via cable, satellite systems and the Internet with an emphasis on their development and organization.

MCM 489

Three Credits

MEDIA MANAGEMENT (FO)

PREREQUISITE: Senior Standing

Exploration of management and administrative principles, roles, functions, structure and goals in the mass media including budget planning, personnel, labor/management relations, and regulation of the print and electronic media.

MCM 490

Three Credits

SPECIAL TOPICS IN MEDIA (SO)

Opportunities to study and examine media-related and special-interest issues in culture, society, history, economy and politics.

MCM 491

Three Credits

INTRODUCTION TO THE INTERNET: WEB PAGE

DESIGN (EE)

PREREQUISITE: CSC 200 or Permission of the Instructor

Introduction to HTML writing and web page design and creation of a multi-page website targeted to a particular audience. Usage of search engines to find relevant information and evaluate similar sites for content, structure, quality of information, purpose, and bias required.

MCM 493, 494

Three Credits Each

PRACTICUM (WNSB) (EE)

PREREQUISITES: C or better in ENG 101, ENG 102 and MCM 261

Real-world experience in radio at WNSB-FM. Emphasis on developing the ability to become creative writers and producers, along with learning radio production techniques.

MCM 496

Three Credit

INTERNSHIP (EE)

PREREQUISITE: Junior or Senior Standing and Consent of Supervising Instructor

Practical experience in the production departments of radio and television stations, newspapers, film production companies, advertising and public relations agencies, media research organizations, and selected other media-related agencies.

MATHEMATICS (MTH)

FOR ALL PREREQUISITES: GRADE 'C' OR HIGHER

MTH 101

Three Credits

ELEMENTARY ALGEBRA (E)

Developmental approach for students whose backgrounds indicate a need for further review of arithmetic and basic algebra. Mathematics laboratory required. (Credits usually do not count toward the mathematics requirements of a student's major.)

MTH 102

Four Credits

ESSENTIALS OF ALGEBRA (E)

Topics include operations of real numbers, ratios, proportions, percent, order of operations, linear and quadratic equations, inequalities, graphing, operations of polynomials, roots, radicals, and system of equations. A Lab component is used to reinforce the concepts of the topics introduced in class.

MTH 103

Three Credits

MTH 103 **Three Credits**
MATHEMATICS IN GENERAL EDUCATION (E)

PREREQUISITE: MTH 101 or the Equivalent

Emphasis on global, unifying ideas in mathematics and the connections between contemporary mathematics and modern society. Topics selected from elementary mathematics, logic, probability and statistics, discrete systems, geometry, measurement, and consumer applications. (This course satisfies the minimum general education mathematics requirement.)

MTH 105 **Three Credits**
INTERMEDIATE ALGEBRA (E)

PREREQUISITE: MTH 101 or the Equivalent

Preparation for the pre-calculus including linear and quadratic equations, graphing, polynomials, roots, radicals, and systems of equations. (Satisfies the minimum general education mathematics requirement.)

MTH 131 **Three Credits**
PRE-CALCULUS FOR BUSINESS MAJORS (E)

PREREQUISITE: MTH 105 (Grade C or higher) or the Equivalent

Transition from elementary mathematics to calculus including a review of exponents, factoring, linear and quadratic equations, inequalities, functions, graphs, system of equations, exponential and logarithmic functions.

MTH 132 **Three Credits**
CALCULUS FOR BUSINESS MAJORS (E)

PREREQUISITE: MTH 131 or 151 (Grade: C or higher)

Introduction to elementary calculus including limits, continuity, differentiation, integration, and applications in business.

MTH 141 **Three Credits**
ELEMENTS OF MATHEMATICS FOR TEACHERS I (EE)

PREREQUISITE: MTH 103 or the Equivalent

Thorough treatment of the modern mathematics curricula for prospective school teachers. Emphasis on sets and logic, number systems, number theory, algebra, geometry and measurement. Computer-based laboratory component with manipulatives included.

MTH 142 **Three Credits**
ELEMENTS OF MATHEMATICS FOR TEACHERS II (EE)

PREREQUISITE: MTH 141 or the Equivalent

Continued treatment of the modern mathematics curricula for prospective school teachers. Emphasis on geometry and measurement.

MTH 151B **Three Credits**
COLLEGE ALGEBRA FOR BIOLOGY MAJORS

PREREQUISITE: MTH 105 or the Equivalent

COREQUISITE: MTH 145L

This course emphasizes the study of basic algebra and stresses fundamental concepts and reasoning used in mathematics, biology and chemistry. Students are expected to bring to the course knowledge of the essentials of elementary and intermediate algebra. Emphasis is placed on those mathematical skills necessary for success in Biology courses.

MTH 151LB **One Credit**
COLLEGE ALGEBRA FOR BIOLOGY MAJORS LAB

PREREQUISITE: MTH 105 or the Equivalent

COREQUISITE: MTH 145L

This course emphasizes the use of mathematics in modeling, solving and analyzing various applications in the first two years of Biology.

MTH 151 **Three Credits**
COLLEGE ALGEBRA (E)

PREREQUISITE: MTH 105 or the Equivalent

Study of basic algebra stressing fundamental concepts and reasoning used in mathematics and the sciences. Emphasis on skills necessary for the calculus sequences. Topics include algebraic operations, equations and inequalities, graphs and functions, polynomial and rational functions, and system of linear and non-linear equations.

MTH 153 **Three Credits**
COLLEGE ALGEBRA AND TRIGONOMETRY (E)

PREREQUISITE: MTH 151 or Equivalent

Extension of algebra topics and a treatment of trigonometry necessary for the study of advanced subjects in mathematics and the sciences. Preparation for the calculus sequence. Topics include exponential and logarithmic functions, trigonometric functions, graphs of trigonometric functions, trigonometric identities and equations, and solving oblique triangles using the laws of sines and cosines.

MTH 184 **Four Credits**
CALCULUS I (E)

PREREQUISITE: MTH 153 or the Equivalent

Treatment of the essentials of calculus necessary for the study of more advanced subjects in the natural sciences and mathematics including limits, continuity, derivatives and applications, antiderivatives and the Fundamental Theorem of Calculus. Integration of some calculus applications with computer activities included.

MTH 242 **Three Credits**
HISTORY OF MATHEMATICS (SO)

PREREQUISITE: MTH 184

Study of the history and development of mathematics as a vital and integral part of the history of numbers and numerals; computation; geometry; algebra; trigonometry; calculus; and modern mathematics.

MTH 250 **Three Credits**
ELEMENTARY STATISTICS CONCEPTS (SO)

PREREQUISITE: MTH 105

Introduction to statistics including graphical data representation, basic probability concepts, sampling and expectation, confidence interval and hypothesis testing for sample mean and proportion.

MTH 251 **Four Credits**
CALCULUS II (E)

PREREQUISITE: MTH 184

Applications of definite integrals, the calculus of transcendental functions, infinite series, and integration techniques. Some topics are integrated with computer activities.

MTH 252 **Four Credits**
CALCULUS III (EE)

MTH 252 **Four Credits**
CALCULUS III (EE)
 PREREQUISITE: MTH 251

Investigation of calculus concepts at the intermediate level including polar coordinates, vectors, and the calculus of several variables.

MTH 273 **Three Credits**
MATHEMATICAL FOUNDATIONS
 PREREQUISITE: MTH 251 with a grade of C or better

Introduction to basic concepts of set theory, logic, algebra, limit and continuity, and methods of mathematical proof, relations and functions. The real number set, and its topology and some topics from calculus will also be studied.

MTH 300 **Three Credits**
LINEAR ALGEBRA (E)
 PREREQUISITE: MTH 184

Introduction to the basic concepts, techniques, and elementary applications of linear algebra including matrices, linear systems, gaussian elimination, vector spaces, linear independence, linear transformations, eigenvalues and eigenvectors.

MTH 310 **Three Credits**
DISCRETE MATHEMATICS (SO)
 PREREQUISITE: MTH 184

Introduction to discrete math including topics in graph theory, management science, the mathematics of social change, and statistics. Use of manipulatives and other learning tools included.

MTH 311 **Three Credits**
MODERN GEOMETRY (SO)
 PREREQUISITE: MTH 184

Re-examination of Euclidean plane geometry as a postulational system. Emphasis on formulating definitions and constructing valid proofs including mathematical reasoning, postulational method, finite geometries, congruence, similarity, parallelism, and construction with ruler and compass.

MTH 323 **Three Credits**
NUMBER THEORY (SI)
 PREREQUISITE: MTH 251

Theoretical study of the properties of the integers including prime numbers, congruencies, continued fractions, Euclidean Algorithm, factorization, and Diophantine equations.

MTH 331 **Three Credits**
ALGEBRAIC STRUCTURES (FO)
 PREREQUISITE: MTH 300

An introduction to modern algebra, which deals with selected algebraic structures (groups, rings, fields, etc.). The course stresses the axiomatic approach and the logic and method of proof.

MTH 351 **Three Credits**
PROBABILITY AND STATISTICS I (EE)
 PREREQUISITE: MTH 251

First of a two-semester sequence of probability and mathematical statistics, primarily for majors. Introduction to probability, univariate and multivariate probability distributions and their properties, distributions of functions of random variables, random samples and sampling distributions.

MTH 352 **Three Credits**
PROBABILITY AND STATISTICS II (SO)
 PREREQUISITE: MTH 351

Second of a two-semester sequence of probability and mathematical statistics, primarily for majors. Topics include applications of probability, descriptive statistics, random samples, point estimators and their properties, tests of hypotheses, confidence intervals, and the comparison of two populations.

MTH 355 **Three Credits**
INTRODUCTION TO REGRESSION ANALYSIS (SI)
 PREREQUISITE: MTH 251

This course uses regression analysis as a flexible, statistical, problem-solving methodology. Topics include matrix review; variable selection; prediction; multicollinearity; model diagnostics; dummy variables; logistic and non-linear regression. Emphasizes use of computer.

MTH 371 **Four Credits**
DISCRETE MATHEMATICAL STRUCTURES (EE)
 PREREQUISITES: MTH 184; CSC 170

An introduction to the area of discrete mathematics that is important to computer science. Topics include logic, sets, functions and relations, algorithms, counting principles, and graph theory.

MTH 372 **Three Credits**
DIFFERENTIAL EQUATIONS (EE)
 PREREQUISITE: MTH 251

A first course in ordinary differential equations. Topics include first-order equations, higher order linear differential equations, and the Laplace transform. Applications include growth/decay models, electric circuits, and the vibrational models.

MTH 373 **Three Credits**
ADVANCED VECTOR CALCULUS (EE)
 PREREQUISITE: MTH 252

A one-semester course in the calculus of functions of several variables and vector analysis. Topics include derivatives and integrals of functions of several variables, vector fields, divergence, curl, Green's Theorem, and Lagrange Multipliers. Course includes selected applications to the physical sciences.

MTH 382 **Three Credits**
INTRODUCTION TO APPLIED MATHEMATICS (FO)
 PREREQUISITE: MTH 372

A junior-level introduction to applications of mathematics designed for mathematics, computer science, and engineering majors. Topics include Fourier Series, Laplace transforms, Sturm-Liouville problems, and Bessel functions.

MTH 384 **Three Credits**
MATHEMATICAL MODELING IN THE SCIENCES (SO)
 PREREQUISITE: MTH 184

A one-semester interdisciplinary course integrating mathematics and science investigations in a mathematical model setting. Students, working in cooperative groups, investigate real-world science problems, formulate model solutions to the problems, and then present their solutions in a classroom setting using various technological aids.

MTH 401 **Three Credits**
NUMERICAL ANALYSIS I (FO)
 PREREQUISITES: MTH 300 and a Programming Language

MTH 401 **Three Credits**

NUMERICAL ANALYSIS I (FO)

PREREQUISITES: MTH 300 and a Programming Language

Introduction to numerical techniques for problem solving involving the use of the computer. Topics include error analysis, solutions of one variable equations, solutions of linear and nonlinear systems of equations, iterative techniques in matrix algebra, and approximating eigenvalues.

MTH 402 **Three Credits**

NUMERICAL ANALYSIS II (SO)

PREREQUISITE: MTH 401, MTH 372

Continuation of MTH 401. Topics include polynomial interpolation and approximation, numerical differentiation and integration, approximation theory, and numerical approaches to ordinary and partial differential equations.

MTH 431 **Three Credits**

ABSTRACT ALGEBRA (SO)

PREREQUISITE: MTH 331

Continuation of MTH 331. Topics include a more advanced discussion of groups, rings, fields, homomorphism, isomorphism, and automorphism.

MTH 451 **Three Credits**

STATISTICAL THEORY I (SI)

PREREQUISITE: MTH 352

Senior level course in applied statistics, designed especially for majors seeking an emphasis in statistics. Probability tools for statistics include description of discrete and absolutely continuous distributions, expected values, moments, moment generating functions, transformations of random variables, marginal and conditional distributions, independence, order statistics, multivariate distributions, concepts of random sample, derivation of many sampling distributions.

MTH 454 **Three Credits**

EXPERIMENTAL DESIGNS (SI)

PREREQUISITE: MTH 352

Topics to be covered include single factor experiments, residuals, randomized block designs, general factorials, blocking, regression models, unbalanced data, confounding blocks, and Taguchi experiments.

MTH 457 **Three Credits**

STATISTICAL THEORY II (SI)

PREREQUISITE: MTH 352

General framework for statistical inference. Point estimators: biased and unbiased, minimum variance unbiased, least mean square error, maximum likelihood and least squares, asymptotic properties. Interval estimators and tests of hypotheses: confidence intervals, power functions, Neyman-Pearson lemma, likelihood ratio tests, unbiasedness, efficiency and sufficiency are covered.

MTH 473 **Three Credits**

INTRODUCTION TO REAL ANALYSIS (FO)

PREREQUISITE: MTH 251

A rigorous introduction to the analysis of real-valued functions of a real variable. Topics include types of proofs, real numbers, theory of sequences and limits of functions, continuity, differentiability, sequences and series of functions, uniform convergence, and Riemann integrals.

MTH 474 **Three Credits**

COMPLEX VARIABLES (SO)

PREREQUISITE: MTH 251

Treats the fundamentals of analytic function theory. Topics include algebra and geometry of the complex numbers, limits, derivatives, Cauchy-Riemann equations, Cauchy's Theorem, Taylor and Laurent series, and contour integration.

MTH 484 **Three Credits**

TOPICS IN APPLIED MATHEMATICS (SO)

PREREQUISITE: MTH 382

A senior level course containing advanced topics in mathematical and scientific applications. Topics vary, but may include partial differential equations, Fourier analysis and boundary value problems, with selected applications in mathematical physics and fluid dynamics.

MTH 491, 492 **One to Twelve Credits**

INDEPENDENT STUDY (SI)

PREREQUISITE: MTH 252 and as Specified by the Instructor

Under the direction of an instructor, this course is designed to give mathematics majors the opportunity to explore a single topic in theoretical or applied mathematics in a one-on-one learning relationship with a faculty member. Special topics must be approved by the department head.

MTH 496 **Two Credits**

MATHEMATICS SEMINAR I (EE)

PREREQUISITE: Junior Status and Completion of Core Math Courses

Culminating sequence designed to review and fortify knowledge of essential mathematics concepts and to synthesize mathematical knowledge and experience through the completion of an approved research project. Results of the research are presented to peers and other interested members of the academic community. Course includes a comprehensive examination used to assess the objectives of the core mathematics courses.

MTH 497 **Two Credits**

MATHEMATICS SEMINAR II (EE)

PREREQUISITE: Junior Status and Completion of Core Math 300, MTH 372 and MTH 351

Culminating sequence designed to review and fortify knowledge of essential mathematics concepts and to synthesize mathematical knowledge and experience through the completion of an approved research project. Results of the research are presented to peers and other interested members of the academic community. Course includes a comprehensive examination used to assess the objectives of the core mathematics courses.

MTH 500 **Three Credits**

TOPICS IN MATHEMATICS EDUCATION

PREREQUISITE: Nine Semester Hours of College Math

Study of selected topics in mathematics curriculum development and methodology. Topics vary from semester to semester.

MTH 501 **Three Credits**

MATHEMATICS FOR COMPUTING

PREREQUISITE: MTH 184

Introduction to the mathematics of computer science including mathematical logic, informal set theory, relations, functions, and networks.

MTH 501A **Three Credits**
GRAPHING CALCULATOR APPLICATIONS

PREREQUISITE: MTH 184

Introduction to the use of graphing calculators as an aid to problem solving in mathematics and science including methods for the use of calculators in classroom instruction.

MTH 505 **Three Credits**
TOPICS IN CONTEMPORARY MATHEMATICS

MTH 505 **Three Credits**
TOPICS IN CONTEMPORARY MATHEMATICS

PREREQUISITE: MTH 184

Emphasis on the connections between mathematics and contemporary real-life problems. Selected topics are drawn from statistics, linear programming, geometry, discrete systems, and consumer applications.

MTH 510 **Three Credits**
DISCRETE MATHEMATICS

PREREQUISITE: MTH 310

Introduction to the basic concepts in discrete mathematics including computer science, graph theory, management science, and applied statistics. Course methodology includes the use of technology, cooperative learning, and manipulatives.

MTH 511 **Three Credits**
ADVANCED TOPICS IN GEOMETRY

PREREQUISITE: MTH 311

Study of selected topics from integral, combinatorial, and algebraic geometries including the geometry of numbers. Independent research project required.

MTH 520 **Three Credits**
MATHEMATICAL LOGIC AND SET THEORY

PREREQUISITE: MTH 310 or 331

Special emphasis on topics in sets and logic. Independent research project on an approved topic in sets and logic required.

MTH 531 **Three Credits**
TOPICS IN ABSTRACT ALGEBRA

PREREQUISITE: MTH 331

Special emphasis on ring and field theory. Independent research project required.

MTH 540 **Three Credits**
MATHEMATICAL MODELS AND APPLICATIONS

PREREQUISITE: MTH 384

Study of the principles of mathematical modeling by way of selected science investigations. Independent research project incorporating mathematical modeling required.

MILITARY SCIENCE (MSL)

MSL 101 **Two Credits**
FUNDAMENTALS OF LEADERSHIP/MANAGEMENT (FO)

MSL 101 introduces cadets to the personal challenges and competencies that are critical for effective leadership. Cadets learn how the personal development of life skills such as goal setting, time management, physical fitness, and stress management relate to leadership, officership, and the Army profession. Focus is placed on developing basic knowledge

and comprehension of Army Leadership Dimensions while gaining a big picture understanding of the ROTC program, its purpose in the Army, and its advantages for the student.

MSL 101D **One Credit**

BASIC DRILL AND CEREMONY MODULE (FO)

PREREQUISITE: MSL 101

Practical application of drill and ceremony procedures, squad and platoon drill, land navigation training, practical exercises, first-aid training, and Army tactical communications equipment training. (One semester of 100 level Basic Leadership Laboratory required for continued advancement in ROTC.)

MSL 102 **Two Credits**
FUNDAMENTALS OF LEADERSHIP/MANAGEMENT (SO)

MSL 102 overviews leadership fundamentals such as setting direction, problem-solving, listening, presenting briefs, providing feedback, and using effective writing skills. Cadets explore dimensions of leadership values, attributes, skills, and actions in the context of practical, hands-on, and interactive exercises. Continued emphasis is placed on recruitment and retention of cadets. Cadre role models and the building of stronger relationships among the cadets through common experience and practical interaction are critical aspects of the MSL 102 experience.

MSL 102D **One Credit**

BASIC DRILL AND CEREMONY MODULE (SO)

PREREQUISITE: MSL 101 or 102

Practical application of drill and ceremony procedures, squad and platoon drill, land navigation training and practical exercises, first-aid training and Army tactical communications equipment training. (One semester of 100 level Basic Leadership Laboratory required for continued advancement in ROTC.)

MSL 201 **Two Credits**

APPLIED LEADERSHIP/ MANAGEMENT (FO)

MSL 201 explores the dimensions of

creative and innovative tactical leadership strategies and styles by examining team dynamics and two historical leadership theories that form the basis of the Army leadership framework. Cadets practice aspects of personal motivation and team building in the context of planning, executing, and assessing team exercises and participating in leadership labs.

Focus is on continued development of the knowledge of leadership values and attributes through an understanding of Army rank, structure, and duties and basic aspects of land navigation and squad tactics. Case studies provide tangible context for learning the Soldier's Creed and Warrior Ethos as they apply in the contemporary operating environment (COE).

MSL 201D **One Credit**

BASIC DRILL AND CEREMONY MODULE (FO)

PREREQUISITE: MSL 201

Practical application of drill and ceremony procedures, squad and platoon drill, land navigation training and practical exercises, first-aid training, and Army tactical communications equipment training. (One semester of 200 level Basic Leadership Laboratory required for continued advancement in ROTC.)

MSL 202 **Two Credits**

APPLIED LEADERSHIP/ MANAGEMENT (SO)

MSL 202 examines the challenges of leading tactical teams in the COE. The course highlights dimensions of terrain analysis,

Preparatory course for students who do not qualify (based on audition) for MUS 121B. (Meets one hour weekly.)

MUS 103, 104**Zero Credits Each****RECITALS CLASS (E)**

Provides a forum for majors to perform music studies in applied lessons. Occasional workshops on specialized topics in lieu of recital performances. Attendance at on-campus and external concerts/recitals and arts presentations are also required.

MUS 110, 111**One Credit Each****ENSEMBLE (E)**

Provides enriching musical opportunities to develop performance skills in a group setting. Ensembles include Marching Band, Symphonic Band, Jazz Ensemble, Concert Choir, Vocal Jazz Ensemble, and small instrumental ensembles.

Required for Music Majors according to curriculum pursued. Open to non-majors by audition.

MUS 121A, 122**One Credit Each****APPLIED MINOR - VOICE (E)**

PREREQUISITE: Successful audition in area of study.

Study of major scales; technical exercises and studies chosen from Schmitt, Hanon, Czerny, Liebling, Burgmuller, Op. 100 Oxford Piano Course for Older Beginners, or the equivalent; selected short compositions in various keys and rhythms; sight-reading.

MUS 121B, 122B**One Credit Each****APPLIED MINOR - PIANO (E)**

PREREQUISITE: Successful audition in area of study or MUS 100B

Study of major scales; technical exercises and studies chosen from Schmitt, Hanon, Czerny Liebling, Burgmuller, Op. 100 Oxford Piano Course for Older Beginners, or the equivalent; selected short compositions in various keys and rhythms; sight-reading.

MUS 121C, 122C**One Credit Each****APPLIED MINOR - ORGAN (E)**

PREREQUISITE: Successful audition in area of study

Course of study includes basic organ technique and covers approximately half of the material required for MUS 125C (Organ) Applied Major.

MUS 121D, 122D**One Credit Each****APPLIED MINOR – BRASSWIND (E)**

PREREQUISITE: Successful audition in area of study

Emphasis on correct tone production and playing techniques. Exposure to a variety of literature for the particular brasswind minor instrument.

MUS 121E, 122E**One Credit Each****APPLIED MINOR - WOODWIND (E)**

PREREQUISITE: Successful audition in area of study

Emphasis on correct tone production and playing techniques. Exposure to a variety of literature for the particular woodwind minor instrument.

MUS 121F, 122F**One Credit Each****APPLIED MINOR - STRINGS (E)**

PREREQUISITE: Successful audition in area of study

Emphasis on correct tone production and playing techniques. Exposure to a variety of literature for the particular string minor instrument.

MUS 121G, 122G**One Credit Each****APPLIED MUSIC – PERCUSSION (E)**

PREREQUISITE: Successful audition in area of study

Emphasis on correct tone production and playing techniques. Exposure to a variety of literature for the particular percussion minor instrument.

MUS 125A, 126A**Two Credits Each****APPLIED MAJOR - VOICE (E)**

PREREQUISITE: Successful audition in area of study

Mastery of vocal exercises for the development of breath management, resonance balance, legato singing, correct phonation, articulation, and good vocal health; emphasis on building musicianship, compositions of moderate difficulty, English texts.

MUS 125B, 126B**Two Credits Each****APPLIED MAJOR - PIANO (E)**

PREREQUISITE: Successful audition in area of study

Study of major scales (24 octaves), hands together, minor scales, hands separate; selected studies of Czerny, Hanon, Burgmuller, sonatinas of Clementi, Kuhlau, Beethoven; seventh chords, arpeggios.

MUS 125C, 126C**Two Credits Each****APPLIED MAJOR - ORGAN (E)**

PREREQUISITE: Successful audition in area of study

Study of basic organ techniques as outlined in *Gleason's Methods of Organ Playing*, or David Johnson's *Instruction Book for Beginning Organists*; pedal scales; hymn tunes; selected compositions of the level of Bach's *Eight Little Preludes and Fugues*, the "Orgelbuchlein," and pre-Bach compositions.

MUS 125D, 126D**Two Credits Each****APPLIED MAJOR – BRASSWINDS (E)**

PREREQUISITE: Successful audition in area of study

Study of the fundamentals of trumpet playing including: breath control, proper attack, formation of embouchure; elementary exercises from Arban, *Complete Conservatory Method*, Henna, *40 Progressive Etudes*, Clark Technical Studies, and Conn, Lip flexibilities, Book I; major and minor scales and arpeggio, chromatic scale. Solo literature: Haydn, Trumpet Concert in Eb. 2nd Movement; Kennan, Sonata for Trumpet and Piano; Contest Album; etc. Trombone studies: Slama Studies, Rochut Melodious Studies, Remington Warmups; Arban's Complete Method, Solos on the level of Andante et Allegro by Baret; scales and technical exercises for trumpet. Tuba studies: scales and technical exercises for tuba; *Foundation of Tuba Playing* by Bell; solos on the level of "Honor and Arms" by Handel. French Horn: *Foundation of French Horn Playing* by Farces; solos on the level of *Panis Angelicus* by Franck.

MUS 125E, 126E**Two Credits Each****APPLIED MAJOR – WOODWINDS (E)**

PREREQUISITE: Successful audition in area of study

Emphasis on basic problems of embouchure, fingering, breathing and tonguing facility, and control; selected studies from Klose Method, Books II and III; Rose, 40 Studies; Perier, *Etudes de genres et D'interpretation*; Cavallini Caprices; Recital Literature For Clarinet, Stubbins, Vols. I, II, and III; all major, pure minor, harmonic minor, and melodic minor scales, also chromatic; scales in 3rds; dominant seventh arpeggios.

MUS 125F, 126F Two Credits Each

APPLIED MAJOR - STRINGS (E)

PREREQUISITE: Successful audition in area of study

Study of basic violin technique, left-hand position, and bow arm techniques; exercises in first position; two octave major scales in first position; exercises from Wohlfahrt Method, Opus 38, and Whistler's Introduction to the Positions, Book I; Kayser Etudes; Simandl Etudes; solo literature from Vivaldi, Bach, Corelli.

MUS 125G, 126G Two Credits Each

APPLIED MAJOR – PERCUSSION (E)

PREREQUISITE: Successful audition in area of study

Rudiment studies from Gardner's Complete Method for Percussion; selected snare drum solos from the Haskell Harr Collection; major scales on marimba with alternating sticks; study of other instruments of the percussion family.

MUS 131, 132 Two Credits Each

MUSIC LITERATURE (EE)

PREREQUISITE: Placement examination or MUS 140

Foundation in the materials and history to identify music styles and genres, major composers and their works, and familiarity with historical periods of music.

MUS 140 Three Credits

MUSIC FUNDAMENTALS (E)

Study of the fundamentals of music and elementary theory. Does not count towards graduation. (For students who do not pass the Theory Placement Test)

MUS 141, 142 Two Credits Each

SIGHT-SINGING AND EAR TRAINING (E)

Study of Theory I, II including sight-singing; melodic and harmonic dictation; scales, intervals and triads; and the analysis of melodies.

MUS 145, 146 Two Credits Each

HARMONY AND KEYBOARD (E)

Study of Theory I, II including part writing, keyboard harmony, and harmonic analysis of triads and their inversions through non-harmonic tones, the dominant seventh chord and its inversions, secondary dominant, and other chords. (Meets three hours per week.)

MUS 151 Two Credits

ELEMENTARY CONDUCTING (FO)

PREREQUISITES: MUS 141, 145

Introduction to the art of conducting with emphasis on mastery of fundamental beat patterns.

MUS 161 One Credit

STRING CLASS (FO)

Development of the skills necessary for teaching instruments of the string family on the elementary and intermediate levels through practical experience. (Meets two hours per week.)

MUS 202,204 Zero Credits Each

RECCITALS CLASS (E)

Provides a forum for majors to perform music studied in applied lessons. Occasional workshops on specialized topics in lieu of recital performances. Attendance at on-campus and external concerts/recitals and arts presentations are also required.

MUS 210, 211 One Credit Each

ENSEMBLE (E)

Provides enriching musical opportunities to develop performance skills in a group setting. Ensembles include Marching Band, Symphonic Band, Jazz Ensemble, Concert Choir, Vocal Jas Ensemble, and small instrument ensembles. Required for Music Majors according to curriculum pursued. Open to non-majors by audition.

MUS 221A,222A One Credit Each

APPLIED MINOR - VOICE (E)

Emphasis on correct vocal production and exploration of a variety of representative vocal literature.

MUS 221B, 222B One Credit Each

APPLIED MINOR - PIANO (E)

Study of major and minor scales; arpeggios, technical exercises and studies continued; selected compositions; sight-reading, transposition, harmonization of simple melodies; folk and patriotic songs. Passing of the Piano Facility Examination required.

MUS 221C, 222C One Credit Each

APPLIED MINOR - ORGAN (E)

A continuation of MUS 122C (Organ) that includes more advanced organ techniques and literature.

MUS 221D, 222D One Credit Each

APPLIED MINOR – BRASSWIND (E)

Emphasis on correct tone production and playing techniques. Exposure to a variety of literature for the particular brasswind minor instrument.

MUS 221E, 222E One Credit Each

APPLIED MINOR – WOODWIND (E)

Emphasis on correct tone production and playing techniques. Exposure to a variety of literature for the particular woodwind minor instrument.

MUS 221F,222F One Credit Each

APPLIED MINOR - STRINGS (E)

Emphasis on correct tone production and playing techniques. Exposure to a variety of literature for the particular string minor instrument.

MUS 221G, 222G One Credit Each

APPLIED MINOR – PERCUSSION (E)

Emphasis on correct tone production and playing techniques. Exposure to a variety of literature for the particular percussion minor instrument.

MUS 221PL, 222PL One Credit Each

APPLIED MINOR - COLLABORATIVE PIANO (E)

Collaborative piano technique for piano majors or advanced keyboard students in a performance-class setting at the intermediate level. Study on phrasing, voicing, balance, sight-reading, and critical listening skills.

MUS 225A, 226A Two Credits Each

APPLIED MAJOR – VOICE (E)

Continuation of technical development; repertoire including English and American songs (Purcell, Handel, Carpenter, Quilter, Head, Rorem, Beach, Copland, Bowles, Barber); songs from the Anthology of Italian Song (Schirmer) or Classic Italian Song (Ditson).

MUS 225B, 226B**Two Credits Each****APPLIED MAJOR - PIANO (E)**

Study of major scales (4 octaves); minor scales (24 octaves), hands together, studies of the level of Czerny, Hanon, Heller, sonatinas or sonatas of Haydn, Mozart, or Beethoven; studies from Bach, *Little Preludes and Fugues* or *Two-Part Inventions*; selected compositions of other periods. Passing of the Piano Facility Examination required.

MUS 225C, 226C**Two Credits Each****APPLIED MAJOR - ORGAN (E)**

Continued technical study; pedal scales through all minor scales; composition selected from shorter works by the forerunners of Bach, *Bach Preludes and Fugues* (G. Schirmer, ed., Vol. II), the sonatas of Mendelssohn, works by major composers such as Frank and Vierne and shorter contemporary works.

MUS 225D, 226D**Two Credits Each****APPLIED MAJOR – BRASSWINDS (E)**

Further development of fundamentals; use of song literature to develop style and phrasing; continued work in Arban, Clarke, Conn and Hering, *32 Progressive Etudes; Introduction to Transposition*; whole tone scales; dominant seventh and diminished scales; selected compositions from various periods; easy sight-reading; harmonization using primary triads; melodic transposition.

MUS 225E, 226E**Two Credits Each****APPLIED MAJOR – WOODWIND (E)**

Emphasis on technical development, finger all tone control; Giampieri Caprices; Kroepsch Daily Studies, major scales in thirds.

MUS 225F, 226F**Two Credits Each****APPLIED MAJOR -STRINGS (E)**

Bow and finger exercises; two-octave major and melodic minor scales up to and including third position; selected studies from Wohlfahrt's *Foundation Studies for the Violin*; solo literature using the first three positions.

MUS 225G, 226G**Two Credits Each****APPLIED MAJOR – PERCUSSION (E)**

Continued study of rudiments; further study of other percussion instruments; major and minor scales in octaves on marimba; major and minor arpeggios and two-stick marimba solos. Selected snare drum solos from Haskell Harr.

MUS 234**Three Credits****AFRICAN AMERICAN MUSIC (E)**

Survey of the music created and performed by African Americans as an ethnic group and as individuals from the period of slavery to the present. Emphasis on the types and elements of African American folk music including evidences and psychological factors that have influenced the development of African American Music in the United States and the Americas.

MUS 240**Three Credits****PROGRESSIVE HARMONY (FO)**

Practice in writing and analyzing contemporary chord progressions with emphasis on keyboard skills, ear-training and creative writing. Exploration of the use of chords of the ninth, eleventh, and thirteenth. Special emphasis on voice leading and chord sonorities.

MUS 241, 242**Two Credits/One Credit****SIGHT-SINGING AND EAR TRAINING (E)**

PREREQUISITE: MUS 142

Study of aural non-diatonic exercises, advanced sight-singing, advanced melodic and harmonic dictation.

MUS 243**Three Credits****MELODY AND IMPROVISATION (SO)**

PREREQUISITE: MUS 240

Provides guidelines for the disciplines of jazz improvisation through the use of melodic, harmonic, rhythmic and structured procedures.

MUS 245, 246**Two Credits Each****HARMONY AND KEYBOARD (E)**

PREREQUISITE: MUS 146

More advanced keyboard harmony and part writing, including modulation, the augmented sixth chords, and the Neapolitan 6th chord. Harmonic and formal analysis; writing for various combinations of instruments in the second semester. (Meets three hours per week.)

MUS 247**Three Credits****INTRODUCTION TO WORLD MUSIC (E)**

Introduces the fundamentals of music through a survey of selected world musical traditions. Music-making is examined within specific cultural settings that give context and meaning to performance. Draws on the broad interdisciplinary field of ethnomusicology, which provides insights into music's role as a rich form of human expression.

MUS 260**One Credit****BAND INSTRUMENT SURVEY (SO)**

Introduction to the principles of playing musical instruments including the rudiments of tone production and performance techniques of woodwind, brasswind, and percussion instruments. (Meets two hours per week.)

MUS 261**One Credit****PERCUSSION CLASS (SO)**

Development of the skills necessary for teaching instruments of the percussion family on the elementary and intermediate levels through practical experience. (Meets two hours per week.)

MUS 265**Three Credits****PRACTICAL APPLICATION IN ELECTRONIC MUSIC (FO)**

Introduction to various computer software used in digital audio music production and digital media, including hands-on instruction using MIDI sequencing and other techniques for producing electroacoustic music for the industry.

MUS 271**One Credit****VOCAL DICTION (FO)**

Study of standard pronunciations for texts of English, Italian, German, and French Vocal literature using the International Phonetic Alphabet (IPA). (Meets two hours per week.)

MUS 272**One Credit****VOICE CLASS (FO)**

Study of vocal techniques and survey of solo and choral literature designed to prepare students for training voices in the public schools. (Meets two hours per week.)

MUS 273**One Credit****VOICE CLASS (SO)**

Study of vocal techniques and survey of solo and choral literature designed to prepare students for training voices in the public schools. (Meets two hours per week.)

MUS 301 **Three Credits**
MUSIC APPRECIATION (E)
 Survey of the major forms and styles of music with emphasis on developing awareness and understanding of representative music literature including the relation of music to other aspects of history and the culture of Western civilization.

MUS 303, 304 **Zero Credits Each**
RECITALS CLASS (E)
 Provides a forum for majors to perform music studied in applied lessons. Occasional workshops on specialized topics in lieu of recital performances. Attendance at on-campus and external concerts/recitals and arts presentations are also required.

MUS 310, 311 **One Credit Each**
ENSEMBLE (E)
 Provides enriching musical opportunities to develop performance skills in a group setting. Ensembles include Marching Band, Symphonic Band, Jazz Ensemble, Concert Choir, Vocal Jazz Ensemble, and small instrumental ensembles. Required for Music Majors according to curriculum pursued. Open to non-majors by audition.

MUS 321A, 322A **One Credit Each**
APPLIED MINOR - VOICE (E)
 Continuation of MUS 222A
 Emphasis on correct vocal production and exploration of a variety of representative vocal literature.

MUS 321B, 322B **One Credit Each**
APPLIED MINOR - PIANO (E)
 Major and minor scales; arpeggios, technical exercises and studies continued; selected compositions; sight-reading, transposition, harmonization of simple melodies; folk and patriotic songs. Passing of the Piano Facility Examination required.

MUS 321C, 322C **One Credit Each**
APPLIED MINOR - ORGAN (E)
 Continuation of MUS 222C; introduced more complex literature and playing techniques.

MUS 321D, 322D **One Credit Each**
APPLIED MINOR – BRASSWIND (E)
 Emphasis on correct tone production and playing techniques. Exposure to a variety of literature for the particular brasswind minor instrument.

MUS 321E, 322E **One Credit Each**
APPLIED MINOR – WOODWINDS (E)
 Emphasis on correct tone production and playing techniques. Exposure to a variety of literature for the particular minor instrument.

MUS 321F, 322F **One Credit Each**
APPLIED MINOR - STRINGS (E)
 Emphasis on correct tone production and playing techniques. Exposure to a variety of literature for the particular minor instrument.

MUS 321G, 322G **One Credit Each**
APPLIED MINOR – PERCUSSION (E)
 Emphasis on correct tone production and playing techniques. Exposure to a variety of literature for the particular minor instrument.

MUS 325A, 326A **Two Credits Each**
APPLIED MAJOR - VOICE (E)
 Advanced study of greater technical difficulty; development of interpretation; repertory to include Italian songs of greater complexity; lieder of Schumann, Schubert, Franz; French songs of Hahn, Godard, Debussy; contemporary songs in English, moderately difficult oratorio, operatic, and musical theater literature; vocal exercises of Panofka; Marchesi, Lamperti, and others.

MUS 325B, 326B **Two Credits Each**
APPLIED MAJOR - PIANO (E)
 Major and minor scales and arpeggios at increased speeds; scales in thirds; continued technical studies with exercises transposed to various keys; sight-reading of more difficult accompaniments; compositions of the level of Bach Two- and Three-Part Inventions, French and English Suites, Well-Tempered Clavier, sonatas of Haydn, Mozart, Beethoven; selected compositions from the Romantic, Post-Romantic, and Modern periods.

MUS 325C, 326C **Two Credits Each**
APPLIED MAJOR - ORGAN (E)
 Technical study continued as needed; repertoire selected from each of the major periods of organ composition with particular emphasis on proper styles in the following: pre-Bach, J.S. Bach, Romantic, contemporary European and American.

MUS 325D, 326D **Two Credits Each**
APPLIED MAJOR - BRASSWIND (E)
 Emphasis on style, techniques, and range, continued work in Arban, Clark, Conn; Brandt, Orchestra Etudes; Bousquet, 36 Celebrated Studies; transposition from Caffarelli, 100 Studi Melodici. Solo literature: Haydn, Trumpet Concerto in Eb; Hummel, Trumpet Concerto; Damase, etc.

MUS 325E, 326E **Two Credits Each**
APPLIED MAJOR – WOODWIND (E)
 Emphasis on performance repertoire; *Recital Literature for Clarinet*, Stubbins, Vols. I, II, III, IV; one selection from the standard sonata repertoire; all scales, major, minor and chromatic; diminished arpeggios.

MUS 325F, 326F **Two Credits Each**
APPLIED MAJOR - STRINGS (E)
 Studies from Kreutzer Etudes 1, 2, and 3; extended scales and arpeggios; double stops, study of concertos such as Mozart and Villa-Lobos, and sonatas such as Handel and Vivaldi.

MUS 325G, 326G **Two Credits Each**
APPLIED MAJOR – PERCUSSION (E)
 Study of all scales in thirds and sixths on marimba; selected three-stick marimba solos; timpani solos and difficult snare drum solos BY Haskell Harr.

MUS 331, 332 **Two Credits Each**
MUSIC HISTORY (EE)
 PREREQUISITES: MUS 132, 242, 246
 Chronological survey of the development of music in the Western world from its beginnings through contemporary idioms, including illustration and analysis of styles, forms, and techniques characteristic of major periods in the history of music. (Meets three hours per week)

MUS 335 **Three Credits**
JAZZ LITERATURE AND CRITICISM (SO)

Introduction to basic performance of jazz and its derivatives, including popular music, tunes from musical theater, themes from motion pictures and television, as well as jazz classics. Emphasis on a critical analysis of the compositions and artists' performances. Knowledge of structural aspects of musical theory required.

MUS 346 **Three Credits**
COMPOSITION (SO)

PREREQUISITES: MUS 242, 246

Presentation of techniques of original music compositions written under the guidance of the instructor. Emphasis on techniques of form, harmony, orchestration, and independence. (Meets three hours per week.)

MUS 351 **Two Credits**
ADVANCED CONDUCTING (SO)

PREREQUISITES: MUS 151, 242, 246

Study of conducting technique with particular attention to interpretation, choral and instrumental styles, tempo, diction, articulation, nuance, group seating arrangements, voice categorization and auditioning. Conducting experience with laboratory group required.

MUS 361 **One Credit**
WOODWIND CLASS (FO)

Practical development of the skills necessary for teaching instruments of the woodwind family on the elementary and intermediate levels. (Meets two hours per week.)

MUS 362 **One Credit**
BRASSWIND CLASS (SO)

Practical development of the skills necessary for teaching instruments of the brasswind family on the elementary and intermediate levels. (Meets two hours per week.)

MUS 365 **Three Credits**
RECORDING AND MUSIC PRODUCTION (FO)

Learn to operate the digital consoles, microphones, and signal processing equipment that give you in-studio experience recording, mixing, producing, and editing professional quality music projects.

MUS 366 **Three Credits**
MUSIC VIDEO (SO)

Create high-quality music videos while learning to shoot, edit, and synchronize pre-recorded music to videos. (Meets three hours per week.)

MUS 367 **Three Credits**
PRO TOOLS (FO)

Learn to use industry standard software sponsored by Avid to support hands-on digital audio editing. Pro Tools is designed to prepare students for intermediate digital audio editing in home and commercial studios

MUS 368 **Three Credits**
AVID MEDIA COMPOSER (FO)

Edit professional quality video programs on Avid Media Composer with hands-on practice using documentary and dramatic footage. Engage in activities that build successful careers in television, film, and broadcast news.

MUS 369 **Three Credits**
PRO TOOLS 110 (SO)

PREREQUISITE: MUS 365, MUS 367

This is the second level user certification course offered by

Avid covering advance techniques of post-production digital audio editing necessary for the music and film industries.

MUS 383I **Two Credits**
CURRICULUM AND INSTRUCTIONAL PROCEDURES IN TEACHING MUSIC IN THE PUBLIC SCHOOLS (Instrumental) (SO)

PREREQUISITES: PRAXIS I, ACT/SAT, Junior or Senior Standing

Study of the principles and procedures for implementing an elementary school instrumental music program including its organization, administration, and supervision; motivation and techniques of teaching; methods and materials. Special emphasis on multicultural content and appreciation; developing competencies in identifying and referring special students. (Meets three hours per week.)

MUS 383V **Two Credits**
CURRICULUM AND INSTRUCTIONAL PROCEDURES IN TEACHING MUSIC IN THE PUBLIC SCHOOLS (Vocal) (SO)

PREREQUISITES: PRAXIS I, ACT/SAT, Junior or Senior Standing

Study of the principles and procedures for implementing an elementary school vocal music program including its organization, administration, and supervision, motivation and techniques of teaching; methods and materials. Special emphasis on multicultural content and appreciation; developing competencies in identifying and referring special students. (Meets three hours per week.)

MUS 384I **Two Credits**
CURRICULUM AND INSTRUCTIONAL PROCEDURES IN TEACHING MUSIC IN THE PUBLIC SCHOOLS (Instrumental) (SO)

PREREQUISITES: PRAXIS I, ACT/SAT, Junior or Senior Standing

Study of the principles and procedures for conducting an elementary school instrumental music program including its organization, administration, and supervision; motivation and techniques of teaching; methods and materials. Special emphasis on multicultural content and appreciation; developing competencies in identifying and referring special students. (Meets three hours per week.)

MUS 384V **Two Credits**
CURRICULUM AND INSTRUCTIONAL PROCEDURES IN TEACHING MUSIC IN THE PUBLIC SCHOOLS (Vocal) (SO)

PREREQUISITES: PRAXIS I, ACT/SAT, Junior or Senior Standing

Study of the principles and procedures for conducting an elementary school vocal music program including its organization, administration, and supervision; motivation and techniques of teaching; methods and materials. Special emphasis on multicultural content and appreciation; developing competencies in identifying and referring special students. (Meets three hours per week.)

MUS 403 **Zero Credit**
RECITALS CLASS (E)

Provides a forum for majors to perform music studied in applied lessons. Occasional workshops on specialized topics in lieu of recital performances. Attendance at on-campus and external concerts/recitals and arts presentations are also required.

MUS 410, 411 (E) One Credit Each
ENSEMBLE
 Provides enriching musical opportunities to develop performance skills in a group setting. Ensembles include Marching Band, Symphonic Band, Jazz Ensemble, Concert Choir, Vocal Jazz Ensemble, and small instrumental ensembles.

MUS 421A, 422A (E) One Credit Each
APPLIED MINOR – VOICE (E)
 Emphasis on correct vocal production and exploration of a variety of representative vocal literature.

MUS 421B, 422B One Credit Each
APPLIED MINOR - PIANO (E)
 Study of major and minor scales; arpeggios, technical exercises and studies continued; selected compositions; sight-reading, transposition, harmonization of simple melodies; folk and patriotic songs. Passing of the Piano Facility Examination required.

MUS 421C, 422C One Credit Each
APPLIED MINOR - ORGAN (E)
 Continuation of MUS 322C
 A continuation of organ study introducing the student to more complex literature and playing techniques.

MUS 421D, 422D One Credit Each
APPLIED MINOR – BRASSWIND (E)
 Emphasis on correct tone production and playing techniques. Exposure to a variety of literature for the particular brasswind minor instrument.

MUS 421E, 422E One Credit Each
APPLIED MINOR – WOODWIND (E)
 Emphasis on correct tone production and playing techniques. Exposure to a variety of literature for the particular woodwind minor instrument.

MUS 421F, 422F One Credit Each
APPLIED MINOR - STRINGS (E)
 Emphasis on correct tone production and playing techniques. Exposure to a variety of literature for the particular strings minor instrument.

MUS 421G, 422G One Credit Each
APPLIED MINOR – PERCUSSION (E)
 Emphasis on correct tone production and playing techniques. Exposure to a variety of literature for the particular percussion minor instrument.

MUS 425A, 426A Two Credits Each
APPLIED MAJOR - VOICE (E)
 Demonstration of sufficient technical mastery to permit the performance of appropriate repertoire of various languages and genres including selections from art song, oratorio, opera, musical theater, jazz, and pop; preparation of senior recital or senior jury.

MUS 425B, 426B Two Credits Each
APPLIED MAJOR - PIANO (E)
 Study of all major and minor scales, arpeggios, and studies executed with good technical mastery at approximately 100 to 120 MM quarter note; advanced sight-reading; compositions representative of advanced literature from different periods; preparation for senior recital or senior jury.

MUS 425C, 426C Two Credits Each
APPLIED MAJOR - ORGAN (E)
 Continuing study of style, ornamentation, organ construction, as applicable to music by the Pre-Bach masters; Baroque, Romantic, and contemporary composers; preparation for senior recital or senior jury.

MUS 425D, 426D Two Credits Each
APPLIED MAJOR – BRASSWIND (E)
 Continued emphasis on style, technique, range, transposition, exercises from Arban, Conn, Brandt, Caffarelli, and Charlier, 26 Etudes Transcendantes; orchestra literature from Bartold, Orchestral Excerpts, Vol. 15. Solo literature: Trumpet Tune; Clark; Trumpet Voluntary; etc. Preparation for senior recital or senior jury.

MUS 425E, 426E Two Credits Each
APPLIED MAJOR – WOODWIND (E)
 Preparation of senior recital or senior jury; transposition at major 2nd up and minor 2nd down; major and pure minor scales in 3rds; tonic, dominant seventh, and diminished arpeggios; review of previous scales and other technical requirements; transposition at major 2nd up; finished performances of compositions from MUS 325E, 326E and other compositions of different styles in preparation for senior recital, sight-reading of advanced literature.

MUS 425F, 426F Two Credits Each
APPLIED MAJOR - STRINGS (E)
 Studies from Kreutzer Etudes 24-42; Schradieck's Technical Violin School; preparation for senior recital or senior jury.

MUS 425G, 426G Two Credits Each
APPLIED MAJOR-PERCUSSION (E)
 Three- or four-stick marimba solos from Haskell Harr, Marimba solos; timpani solos using three and four timpani; difficult snare drum solos; preparation of senior recital or senior jury.

MUS 440 Three Credits
LEGAL PROTECTION FOR MUSIC AND MUSICIANS (SO)
 Survey of the field of music law including performance and recording royalties, contract, performing rights organizations, musical copyright procedures, and publication.

MUS 448 Two Credits
ARRANGING (SO)
 PREREQUISITES: MUS 242, 246 or Permission from the Instructor
 Scoring for small ensembles and for full band and orchestra; involves practical application of the knowledge of transposing instruments as well as applied knowledge of the purpose and the range of each band and orchestral instrument.

*PIANO FACILITY EXAMINATION

All students majoring in Music must pass a Piano Facility Examination as a requirement for the bachelor's degree. This examination is a prerequisite to Directed Teaching. The Facility Examination tests the student's ability to use the piano as a tool within the framework of his/her professional application. The examination is scheduled at the end of each semester and during the summer session. The passing of this examination is required for successful completion of MUS 221B and MUS 222B.

***Two Applied Majors may not be taken within the same semester.*

NAVAL SCIENCE (NSC)

NSC 101

Two Credits

NAVAL ORIENTATION

Introduction to sea power and the naval service, with emphasis on the mission, organization, regulations, and broad warfare components of the Navy, including an overview of officer and enlisted rank and rating structures, procurement and recruitment, training and education, promotion and advancement, and retirement policies.

NSC 102

Three Credits

SEAPOWERS AND MARITIME AFFAIRS

Study of the general sea power (including the merchant marine), the role of various warfare components of the Navy in supporting the Navy's mission, the implementation of sea power as an instrument of national policy, and a comparative study of U.S. and other Navies throughout history.

NSC 201

Three Credits

NAVAL SHIP SYSTEMS I (ENGINEERING)

Introduction to the types, structure, and purpose of naval ships including ship compartmentalization, propulsion systems, auxiliary power systems, interior communications, and ship control. Examination of elements of ship design to achieve safe operations and ship stability.

NSC 202

Three Credits

NAVAL SHIPS SYSTEMS II (WEAPONS)

Introduction to the theory and principles of weapons systems including coverage of types of weapons and fire control systems, capabilities and limitations, theory of target acquisition, identification and tracking, trajectory principles, and basics of naval ordinance. Knowledge of algebra and trigonometry recommended.

NSC 301, 302

Six Credits

NAVIGATION AND NAVAL OPERATIONS I AND II

PREREQUISITE: Basic Course

Comprehensive study of the theory, principles, and procedures of ship navigation, movements, and employment, including the use of charts and publications, dead reckoning, piloting and electronic navigation techniques, voyage planning, and a survey of celestial navigation. Operations topics include communications, sonar- radar search, and screening theory. Tactical formations and dispositions, relative motion, maneuvering board, and tactical plots are analyzed for force effectiveness and unit; rules of the road, lights, signals, and navigational aids, including inertial systems, are also covered.

NSC 310

Three Credits

THE EVOLUTION OF WARFARE

Exploration of the forms of warfare employed by great leaders in history in order to formulate a sense of historical flow or to demonstrate alternative military actions, the impact of historical precedents on military thought and actions as practiced by the great leaders and military organizations. (Marine Corps Option Students Only).

NSC 401

Three Credits

LEADERSHIP AND MANAGEMENT

PREREQUISITE: Advanced Program Status

Development of effective managerial and leadership competence through functional, behavioral, and situational approaches. Focus on the officer-manager as an organizational decision maker and leader.

NSC 402

Three Credits

LEADERSHIP AND ETHICS

PREREQUISITE: Advanced Program Status

Capstone course in the NROTC curriculum builds and focuses on managerial and professional competencies developed during prior at-sea training and naval science courses.

NSC 410

Three Credits

AMPHIBIOUS WARFARE

Historical survey of the sea power with emphasis on the evolution of amphibious warfare in the twentieth century including the concept of amphibious warfare, its doctrinal origins, and its evolution and development as an element of national naval policy.

NSC 111, 112, 211, 212, 311, 312, 411, 412 One Credit Each NAVAL LABORATORIES

PREREQUISITE: Acceptance into NROTC Program

Study of basic military formations, drill movements, commands, customs, courtesies, honors, and inspections including lectures and discussions on a variety of subjects.

NURSING (NUR)

NUR 300

One Credit

FOUNDATIONS OF PROFESSIONAL DEVELOPMENT

PREREQUISITES: Admission to the Baccalaureate Degree program or by permission of the Department Head.

This course is an introductory course establishing foundational knowledge and the professional standards associated with nursing practice: ANA Scope and Standards, QSEN, Virginia Board of Nursing Regulations and the National Patient Safety Goals. This course also introduces the NSU Program Learning Outcomes and relationship between the professional standards. The basis for the Nursing Students' Portfolio will be introduced.

NUR 301

Three Credits

FOUNDATIONS OF ONLINE SUCCESS: BSN ORIENTATION

PREREQUISITES: Admission to the Baccalaureate Degree program or by permission of the Department Head.

This three-credit course will provide information and skills to RN to BSN students in the areas specific to BSN programmatic pathways, RN to BSN online expectations, advance library, writing, and APA skills needed to be successful in the program. Upon successful completion of this course, the RN to BSN student will be prepared for success in the BSN program.

NUR 304

Two Credits

NURSING INFORMATICS

PREREQUISITES: Admission to the Baccalaureate Degree program or by permission of the Department Head.

This course focuses on information technology in current healthcare environments, and how nursing informatics tools, principles, and practices are used to make healthcare safer.

NUR 321

Three Credits

MULTICULTURAL/BIO ETHICS

PREREQUISITE: NUR 301

NUR 321**Three Credits****MULTICULTURAL/BIO ETHICS**

PREREQUISITE: NUR 301

This course is designed to sensitize students to the differences and similarities of culturally diverse populations with regard to health and illness. The students will also be encouraged to clarify personal values and develop an appreciation of the values that underpin health decisions made by consumers of health care. Topics related to age, race, ethnicity, gender, class and disabilities will be emphasized. Concepts related to workforce diversity, health care belief systems, patient rights and management of health care appropriate to the patient population will be explored. This course focuses on the challenges of nurses to provide culturally competent care to members of a multicultural society. Students will examine the effects of cultural beliefs and practices that influence health care practices and health care delivery. This course will also explore bioethical concepts that impact upon nursing practice. Students will focus on ethical concepts as they apply to nursing practice.

NUR 322/415**Four Credits****HEALTH ASSESSMENT**

PREREQUISITES: Admission to the Baccalaureate Degree program or by permission of the Department Head.

This course is designed to facilitate the development of expertise in obtaining health histories and performing physical assessments on clients of ages across the life span who are experiencing varying levels of wellness. Content is presented in the classroom arena and the students will have the opportunity for application and refinement of skills in the on-campus laboratory.

NUR 332**Two Credits****GENETICS AND GENOMICS IN NURSING PRACTICE**

PREREQUISITES: 300, 302, 304, 322, 324, & 326

This course explains the role of nursing in the therapies, health conditions, and disease risk of conditions having a genetic or genomic element. The course introduces genetic and genomics related research, to include the Human Genome project. An understanding of the relationship of genetics and genomics to health, prevention, screening, diagnostics, prognostics, selection of treatment, and monitoring of treatment effectiveness is examined. Ethical, legal and social implications, along with ethnic, racial and cultural considerations with providing genetic and services are emphasized.

NUR 342, 342L**Six Credits****FUNDAMENTALS OF NURSING**

PREREQUISITES: Admission to the Baccalaureate Degree program or by permission of the Department Head.

Fundamentals of Nursing I is designed to facilitate development of knowledge and skills that are required for the design and implementation of systems of nursing care for well individuals who may experience actual and potential minor deviations from wellness. Basic or fundamental nursing skills are taught and cultivated so as to enable students to identify disturbances in physiological and psychological functioning and accompanying self-care deficits. Students will develop nursing care plans based on bio-psycho-social-cultural assessments so that homeostatic equilibrium may be maintained and /or restored. As a result, the role, relationship, and responsibilities of the nurse as a member of the health care team are identified and examined critically.

NUR 348**Three Credits****NURSING PHARMACOLOGY**

PREREQUISITES: Admission to the Baccalaureate Degree program or by permission of the Department Head.

This course provides students with an overview of pharmacology with an emphasis on clinical applications within the context of the nursing process and prioritization of needs; special consideration is given to the physiological, psycho/social, cultural, and spiritual needs of patients. The pharmacological interactions are explained in relation to the disease processes of the body systems: respiratory, cardiovascular, gastrointestinal, genitourinary, endocrine, nervous systems, musculoskeletal, and mental health. Pharmacotherapeutics regarding anti-infective and immunology are presented. Analgesics are also introduced with emphasis on inflammation, pain, and fever. End of life and multisystem medications and physiology are also incorporated. The indications, modes of action, effects, dosages, side effects, nursing implications, contraindications and interactions for selected drugs involved in selected disease processes are emphasized. Specific nursing responsibilities related to drug administration are emphasized.

NUR 360, 360L**Nine Credits****NURSING CARE OF ADULTS I**

PREREQUISITES: 300, 304, 322, 342/L, 348

The emphasis of this course is on the design of systems of nursing assistance for individuals experiencing acute and/or chronic alterations in physiologic homeostasis. Specific attention is devoted to analyzing self-care deficits and planning appropriate nursing assistance based on this analysis. Students will be assisted to effectively use the nursing process to design systems of nursing assistance related to selected acute and/or chronic physiological disease processes. Classroom experiences are designed to assist the student to integrate concepts from previous courses, currently presented information and the use of the nursing process in selected client situations. Specific alterations in physiologic homeostasis, including fluid and electrolytes and acid/base disturbances, serve as the foundation for assessing, planning, implementing, and evaluating nursing and collaborative care. Prerequisites: Completion of second semester TBSN program or special permission of the Department Chair.

NUR 400**Three Credits****NURSING PATHOPHYSIOLOGY**

PREREQUISITES: 300, 304, 322, 342/L, 348

This course prepares the pre-licensure student to approach complex situations systematically. Emphasis will be placed on the integration and application of pathophysiological concepts to the holistic human in time of physical stress. This course utilizes the nursing process as the basis for examining persons with pathologies requiring multiple dimensions of nursing care. This introductory course is designed to the study of the normal physiology of various systems of the human body and how alterations in structure and functions can initiate the onset of disease. Pre-licensure students will explore pathophysiology through the lens of body function concepts and what happens when function is altered through injury or disease. Utilizing the nursing process, emphasis will be placed on the integration of pathophysiological concepts.

NUR 418**Three Credits****CONCEPTUAL MODELS FOR NURSING**

NUR 418 **Three Credits**
CONCEPTUAL MODELS FOR NURSING

Introduction to concepts underpinning the practice of professional nursing, including concepts of self-care, nursing process, systems theory, theories of family development and crisis.

NUR 419, 419L **Ten Credits**
PROVIDING NURSING SYSTEMS FOR INDIVIDUALS AND SMALL GROUPS

PREREQUISITES: NUR 362, 362L, 415, 418

Focus on designing systems of nursing assistance for clients experiencing significant life cycle events which have a major impact on the lifestyles and activities of the individual and small groups, including child-bearing and child-rearing. Also, discussed is the client with selected alterations in psychological homeostasis.

NUR 419A, 419C **Four Credits**
PROVIDING NURSING SYSTEMS FOR INDIVIDUALS AND SMALL GROUPS DURING CHILDBEARING

PREREQUISITES: NUR 362, 362L, 415, 418

This course focuses on designing systems of nursing assistance for clients experiencing significant life cycle events which have major impact on lifestyles and activities of individuals and small groups. The specific life-cycle events include clients with selected alteration in physiologic homeostasis which promotes childbearing. Placement: Summer Session Junior Year

NUR 419B, 419D **Six Credits**
PROVIDING NURSING SYSTEMS FOR INDIVIDUALS AND SMALL GROUPS WITH MENTAL HEALTH AND CHILDBEARING ALTERATIONS

PREREQUISITES: NUR 362, 362L, 415, 418, 419A, 419C

This course focuses on designing systems of nursing assistance for clients experiencing significant life cycle events which have major impact on lifestyles and activities of individuals and small groups. These specific life-cycle events include clients with selected alteration in psychological homeostasis across the life span and physiological homeostasis of infants/ children/ adolescents.

PLACEMENT: FALL SESSION
JUNIOR YEAR

NUR 429, 429L **Eight Credits**
PROVIDING NURSING SYSTEMS FOR INDIVIDUALS AND LARGE GROUPS

PREREQUISITES: NUR 321, 362, 362L, 415, 418, 419, 419L, 444

Focus on the design and implementation of systems of nursing assistance for individuals, families, and large groups in community and tertiary care settings, including clients throughout the life span and of diverse cultural backgrounds, experiencing self-care deficits with multiple etiologic factors and/or having a potential for multiple risk factors.

NUR 429A, 429C **Five Credits**
PROVIDING NURSING SYSTEMS FOR INDIVIDUALS AND LARGE GROUPS

PREREQUISITES: NUR 362, 362L, 415, 418, 419A, 419C, 419B, 419D

This course focuses on the design and implementation for systems of nursing assistance for individuals, families, and large groups in tertiary care settings. These clients, throughout the lifespan and of diverse cultural backgrounds, experience self-care deficits with multiple etiologic factors. (2 hour lecture/9 hours laboratory)

PLACEMENT: SPRING SESSION
SENIOR YEAR

NUR 429B, 429D **Three Credits**
PROVIDING NURSING SYSTEMS FOR INDIVIDUALS AND LARGE GROUPS

PREREQUISITES: NUR 362, 362L, 415, 418, 419A, 419C, 419B, 419D, 429A, 429C

Admission into the second-degree BSN Evening/Weekend Track.

This course focuses on the design and implementation for systems of nursing assistance for families, groups and communities, specifically high-risk populations throughout the life cycle. Students will use selected conceptual models in assessing, planning, implementing and evaluating nursing care and analyzing the management of care delivery by others in a variety of settings.

PLACEMENT: SUMMER SESSION
SENIOR YEAR

NUR 435, 435L **Five Credits**
PROVIDING NURSING SYSTEMS FOR FAMILIES, GROUPS AND COMMUNITIES

PREREQUISITES: NUR 321, 415, 418,

Focus on the design and implementation of systems of nursing assistance for families, groups and communities, specifically high-risk populations, throughout the life cycle. Usage of selected conceptual models in assessing, planning, implementing and evaluating nursing care and analyzing the management of care delivery by others in a variety of settings.

NUR 440, 440L **Nine Credits**
NURSING CARE OF ADULTS II

PREREQUISITES: 300, 302, 304, 322, 324, 326, 301, 332, 342/L, 344, 346, 360/L, & 461

This course focuses on the design and implementation of systems of nursing assistance for individuals and families, in tertiary care settings. These clients, throughout the lifespan and of diverse cultural backgrounds, experience self-care deficits with multiple etiologic factors and/or have a potential for multiple risk factors.

NUR 442, 442L **Four Credits**
PSYCHIATRIC/MENTAL HEALTH NURSING

PREREQUISITES: 300, 302, 304, 322, 324, 326, 301, 332, 342/L, 344, 346, 360/L, & 461

Psychiatric/Mental Health nursing focuses on designing systems of nursing assistance for clients experiencing

significant life-cycle events, which have major impact on self-care management, lifestyles and activities of the individuals and small groups. These life-cycle events result in selected alterations, primarily in psychological homeostasis that range from minor alterations, such as anxiety, to major alterations such as psychotic disorders. Students are taught how to effectively use therapeutic communication and interventions to assist individuals and/or small groups to restore psychological and/or physiological homeostasis.

NUR 444 Three Credits

PLANNING NURSING SYSTEMS FOR ADULTS

PREREQUISITES: NUR 362, 362L, 321, 415, 418

Design of systems nursing assistance for diverse groups of individuals and/or aggregates experiencing acute and/or chronic alterations in physiologic homeostasis, which has a major and significant impact upon the life-style and activities of the individual/aggregate. Specific attention to analyzing self-care deficits and planning appropriate nursing assistance based on this analysis.

NUR 446 Two Credits
NURSING OF WOMEN AND THE CHILDBEARING FAMILY

PREREQUISITES: 300, 301, 302,304, 322, 324, 326, 332, 342/L, 344, 346, 360/L, & 461

This course focuses on the nursing care of women, neonates and their families in a variety of settings. Normal pregnancy and childbirth will be addressed, as well as the identification and management of high risk childbearing situations among diverse populations. Selected health care of women content across the lifespan is included.

NUR 446L Two Credits

NURSING OF WOMEN AND THE CHILDBEARING FAMILY LAB

PREREQUISITES: 300, 301, 302,304, 322, 324, 326, 332, 342/L, 344, 346, 360/L, & 461

The focus of this course is the nursing care of women, neonates and their families in a variety of settings. Normal pregnancy and childbirth will be addressed, as well as the identification and management of high risk childbearing situations among diverse populations. Selected content related to the health care of women across the lifespan is included.

NUR 450, 450L Four Credits

NURSING OF CHILDREN, ADOLESCENTS, AND FAMILIES

PREREQUISITES: 300, 301, 302,304, 322, 324, 326, 332, 342/L, 344, 346, 360/L, & 461

This course focuses on the theoretical concepts and clinical application of nursing care of infants, children, and adolescents in varied health care and community settings. Students are expected to use the nursing process and synthesize assessment, pathophysiologic, pharmacologic, and therapeutic concepts. Family-centered care of children within developmental, cultural, ethnic, religious, and social structures.

NUR 461 Three Credits

NURSING RESEARCH DIMENSIONS

Study of research skills used in making inferences relating to nursing practice, understanding the research process, critiquing research articles, utilizing research findings in enhancing, and identifying researchable questions.

NUR 462 Three Credits

NURSING LEADERSHIP AND MANAGEMENT

Examination of theory and concepts concerning the leadership process, organizational structure, and management strategies. Analyze complex health-care delivery systems, coordinate efforts for consumer health and nursing service, act as colleagues with other health professionals, evaluate the quality and direction of health and nursing, and encourage change as appropriate.

NUR 463, 463L Five Credits

CAPSTONE THEORY AND PRECEPTORSHIP

PREREQUISITES: 300, 304, 322, 348, 342, 342L, 360, 360L, 400, 461, 446, 446L, 450, 450L, 332, 440, 440L, 442, 4423L, & 485

This course maximizes socialization as a professional nurse through the examination of the role of the nurse in current issues in health care and nursing. Attention is directed to forces which affect health care delivery and the impact of these changes on the scope of nursing practice. This capstone course is designed as a synthesis of theoretical nursing concepts through the use of case studies, application exercises and simulation activities.

NUR 470 Three Credits

SEMINAR ON PROFESSIONAL DEVELOPMENT

This course forces which affect health-care delivery and the impact of these changes on the scope of nursing practice. Emphasis is focused on professional accountability, political involvement, and strategies for enhancing the image of the profession with other health professions and the lay public.

NUR 475 Three Credits

NURSING PROCESS SEMINAR

This capstone course promotes the integration of knowledge and concepts obtained in previous nursing, science and general education courses into the design and implementation of nursing systems for groups of individuals and/or aggregates throughout the life span with complex deviations from wellness, including an intensive preceptored clinical experience. Successful completion of the course is dependent upon passing a comprehensive examination.

NUR 485 Three Credits

CONTEMPORARY TOPICS IN NURSING AND HEALTH CARE

This course focuses on the study of a variety of contemporary topics in nursing and health care, for which the student may select topics of interest for group presentations, workshops, and/or research projects. Projects and/or presentations may be offered on weekday evenings and/or Saturdays.

NUR 490, 490L Four Credits

COMMUNITY HEALTH NURSING

PREREQUISITES: 300, 304, 322, 348, 342, 342L, 360, 360L, 400, 461, 446, 446L, 450, 450L, 332, 440, 440L, 442, 442L, & 485

This community clinical course is designed to apply principles of community health nursing. Expanding upon current knowledge and experience base, students will participate in a variety of clinical activities in the community. Students will design, implement and evaluate a project focusing on community health. This project will challenge critical thinking skills as students analyze and synthesize data to develop health promotion and disease prevention strategies for population groups.

NUR 495**One Credit****SENIOR SYNTHESIS**

PREREQUISITES: 300, 302, 304, 322, 324, 306, 301, 332, 342/L, 344, 360/L, 461, 440/L, 442/L, 446/L, 485

Nursing Senior Synthesis maximizes socialization as a professional nurse through the examination of the nurse generalist role. The course evaluates selected challenges in the workplace and explores employment opportunities for the nurse today. Ultimate emphasis is on personal professional development and standardized test taking readiness; this is accomplished through the synthesis of an ePortfolio that reflects achievement of program learning outcomes and expected competencies for entry-level practice as a registered nurse and testing preparation.

OPTICAL ENGINEERING (OEN)**OEN 200****Three Credits****GEOMETRIC AND INSTRUMENTATION OPTICS (FO)**

PREREQUISITES: PHY161; PHY 161I, MTH 251

COREQUISITE: OEN 200L

Basic principles of geometric optics, refraction and reflection will be discussed. Gaussian optics of axially symmetrical systems and other related topics as well as simple optical instruments such as magnifying lenses, compound microscopes, refracting telescopes and other simple optical systems will be discussed.

OEN 200L**One Credit****GEOMETRIC AND INSTRUMENTATION OPTICS LABORATORY (FO)**

PREREQUISITE: PHY161L COREQUISITE: OEN 200

This is a course in intermediate geometric optics that provides students with state-of-the-art laboratory exercises and equipment that will allow them to do fundamental experiments using lasers, fiber optic systems and diodes. This course complements OEN200 and students are advised to take these courses concurrently.

OEN 201**Three Credits****PHYSICAL AND INSTRUMENTATION OPTICS (SO)**

PREREQUISITES: OEN 200, OEN 200L

COREQUISITE: OEN 201L

This course is the second half of OEN 200 with more detailed discussion of topics such as interference and interferometers, Fresnel and Fraunhofer diffraction, spectroscopic instrumentation, electro-optic effects and elements of quantum and nonlinear behavior.

OEN 201L**One Credit****PHYSICAL AND INSTRUMENTATION OPTICS LABORATORY (SO)**

COREQUISITE: OEN 201

This laboratory is designed to complement the topics discussed in OEN 201 and students are advised to take these courses concurrently.

OEN 297**Three Credits****SUMMER RESEARCH (SS)**

PREREQUISITES: Sophomore Status and Permission of the Instructor

Undergraduate research supervised by a faculty member. Development of the skills of research including preparations, design and execution of experiments, data analysis.

OEN 320**Three Credits****OPTICAL SYSTEMS ANALYSIS (SO)**

PREREQUISITES: OEN 340

Development of tools and techniques for engineering of optical systems. Study of specifications, system design and analysis, tradeoffs and optimization, manufacturing.

OEN 340**Three Credits****LASERS AND PHOTONICS (FO)**

PREREQUISITE: OEN 201

COREQUISITE: OEN 340L

Condensed matter physics including issues in solid state physics, laser physics, laser light, laser components and systems and measurements are covered in this course.

OEN 340L**One Credit****LASERS AND PHOTONICS LABORATORY (FO)**

COREQUISITE: OEN 340

This course is the study of lasers and photonics in a laboratory setting.

OEN 360**Three Credits****INTRODUCTION TO OPTICAL MATERIALS (FO)**

PREREQUISITES: EEE 211; EN 201

This course provides students with the basic principles of optical properties of different material systems that influence optical transitions in conductors, insulators and semiconductors. Specialty topics covering quantum and non-linear effects will also be covered.

OEN 380**Three Credits****INTRODUCTION TO QUANTUM OPTICS (FO)**

PREREQUISITES: EEE 211, MTH 252, OEN 201

Introduction to the uncertainty principle, the differences between quantum and classical systems, Schrodinger's Equation, free particle wave functions, square wave and simple harmonic oscillator potentials, the hydrogen atom, and other general quantum concepts.

OEN 397**Three Credits****SUMMER RESEARCH (SS)**

PREREQUISITES: Junior Status and Permission of the Instructor

Undergraduate research supervised by a faculty member. Further development of the skills of research including preparations, design and execution of experiments, data analysis.

OEN 460**Three Credits****OPTICAL COMMUNICATIONS I (FO)**

PREREQUISITES: OEN 340, 360 COREQUISITE: OEN 460L

Study of optical communication components and applications to communications systems, including fiber attenuation and dispersion and noise and coherent communications.

OEN 460L**One Credit****OPTICAL COMMUNICATIONS I LABORATORY (FO)**

COREQUISITE: OEN 460

Study of optical communication components and applications to communications systems in a laboratory setting.

OEN 461**Three Credits****OPTICAL COMMUNICATIONS II (SO)**

PREREQUISITE: OEN 460 COREQUISITE: OEN 461L

Further discussion of coherent communications, as it relates to distribution networks for fiber-to-the- premises (FTTP) and optical sensing.

OEN 461L**One Credit****OPTICAL COMMUNICATIONS II LABORATORY (SO)**

PREREQUISITE: 460L COREQUISITE: OEN 461

This laboratory is designed to complement the topics discussed in OEN 461. Students are advised to take these courses concurrently.

OEN 490**One Credit****SENIOR SEMINAR (FO)**

PREREQUISITE: Senior Status and Permission of the Instructor

This course provides an introduction to various aspects of engineering practice, engineering ethics, and career opportunities through invited lectures.

OEN 498**Three Credits****SENIOR PROJECT I (FO)**

PREREQUISITE: Senior Status and Permission of the Instructor

In this course, students plan and design capstone engineering projects incorporating realistic and diverse constraints of technical, budgetary, and social aspects. Both written reports and oral presentations are required.

OEN 499**Three Credits****SENIOR PROJECT II (SO)**

PREREQUISITE: OEN 498 and Permission of the Instructor

This course is the implementation phase of capstone projects designed in OEN 498. Demonstration of the final working project is required along with a written report and oral presentation.

PHYSICAL EDUCATION (PED)**PED 100****One Credit****FUNDAMENTALS OF FITNESS FOR LIFE FO) (SO)**

Development of knowledge and appreciation for total fitness as an individualized lifetime goal, including the improvement in current levels of fitness and the development of positive life-styles.

PED 101**One Credit Each****MODIFIED PHYSICAL EDUCATION (EE)**

Individualized programs of instruction for students with handicapping conditions. Medical excuse required.

PED 107**One Credit****AEROBICS (EE)**

Aerobics is an experiential course designed to give students an introductory experience and orientation to basic cardiovascular development using aerobic workout and step training as physical fitness tools. Of particular interest will be the student's individual journey in a quest for healthier living.

PED 109**One Credit****WATER AEROBICS (SO)**

Development of elements of physical fitness, including muscle tone, strength, flexibility, and cardiovascular endurance through participation in full rhythmic and aerobic exercises done in water. Emphasis on the role of nutrition, weight control, stress management, and consumerism as basic components of a health fitness lifestyle. No swimming skills required.

PED 133**One Credit****BEGINNING SWIMMING (EE)**

Introduction to levels I, II and III of the American Red Cross Learn to Swim Program, including water safety, water acclimation, reaching assists, breath control, prone floating and analysis of movement.

PED 134**One Credit****ADVANCED BEGINNING SWIMMING (EE)**

PREREQUISITE: Ability to swim 25 yards of front crawl stroke, back crawl stroke and experience in deep water or permission of instructor.

Study of levels IV and V of the American Red Cross Learn to Swim

Program with review of Levels I, II, and III, including water safety, improvement in prone swimming (front crawl), back swimming (back crawl and elementary backstroke), introduction to side stroke, analysis of movements and scientific flaws.

PED 151, 152**One Credit Each****RHYTHM AND FOLK DANCES (EE)**

Rhythm/Folk Dance is an experiential course designed to give students an introductory experience in basic rhythmic development using the folk dance of various cultures. The primary learning experiences for this class will include but are not limited to: rhythmic development including hand clapping and vocalizations, basic music value and notation, cardiovascular warm-up, use of gross motor skills including axial and locomotor skills, and historical and socio-cultural inquiry into various dances in different societies. Of particular interests will be the basic socio-cultural and historical background including the music and movements of each dance.

PED 158, 159**One Credit Each****FUNDAMENTALS OF PHYSICAL EDUCATION (EE)**

Orientation to selected seasonal team sports (soccer, speed ball hockey, basketball, volleyball, softball, track and field). Emphasis on the development of psychomotor skills, physical fitness, and knowledge and appreciation of the selected activities. Above average proficiency required. This course focuses on the fundamental movement skills and concepts that are the foundation of a quality physical education and physical activity programs.

PED 170/170H**Three Credit Each****INTRODUCTION TO PHYSICAL EDUCATION (EE)**

Introduction to historical, philosophical, educational, psychological, biological, sociological, and career emphasis related to the field of physical education.

PED 179**Two Credit Each****FIRST AID, CPR & AED**

Study of the proper techniques and procedures for administering First Aid, CPR, and AED. This course prepares participants to recognize and respond appropriately to cardiac, breathing, and first aid emergencies.

PED 200**Two Credits****BEGINNING FITNESS THROUGH WEIGHT TRAINING (EE)**

Near individualized personal fitness program utilizing the following apparatus and equipment: the variable resistance machines, Olympic free weights, and the pull-up trainer.

PED 204**One Credit****TENNIS I (EE)**

Development of basic skills in the game of tennis, including techniques, rules, and strategies.

PED 206**One Credit****TENNIS II (EE)**

Development of performance skills at the beginning level, the knowledge of rules, terminology, equipment, and safety techniques in tennis.

PED 209**One Credit****BOWLING (EE)**

Development of skills and appreciation for bowling, both as a fitness and leisure time activity.

PED 210**One Credit****GOLF (SO) (SO)**

Development of performance skills at the beginning level, the knowledge of rules, terminology, equipment, and safety techniques in golf.

PED 213**Three Credits****INTRODUCTION TO NET & WALL GAMES (EE)**

PREREQUISITE: None

The purpose of this course is to provide students with basic level of knowledge and skills in a variety of net and wall games such as racquetball, table tennis, pickleball, volleyball, tennis, badminton, volleyball, etc. to be able to successfully participate in recreational lifelong activities.

PED 220, 220H**Three Credits****EVALUATION IN PHYSICAL EDUCATION**

PREREQUISITE: General Math Course

The student will be introduced to the quantitative and qualitative tests, measurements, and evaluation tools utilized in evaluating the cognitive, affective, and psychomotor aspects of physical activity.

PED 235**One Credit****AQUATIC SPORTS & ACTIVITIES (EE)**

PREREQUISITE: PED 133 or Instructor Permission

This course introduces the student to a variety of aquatic sports and activities. Primary focus is on swimming, water polo and aquatic board sports.

PED 251, 252**One Credit Each****MODERN DANCE I (EE)**

Modern Dance I is an experiential course designed to give students an introductory experience and orientation to techniques and principles of modern dance. The primary learning experiences for this class will include but are not limited to: rhythmic development, stretch and strength warm-up, use of gross motor skills including axial and loco motor skills, and cursory historical and socio-cultural inquiry. Of particular interests will be the basic socio-cultural and historical background of Modern dance specifically as it relates to the development of African American concert dance traditions. Primary teaching techniques for this class will include an introduction to primary Modern dance concepts and the Umfundalai technique.

PED 253 **One Credit**

GYMNASTICS (SO)

Development of performance skills and the knowledge of rules, terminology, equipment, safety techniques, and the learning procedures for apparatus work

PED 254 **One Credit**

JAZZ DANCE (SO)

Introduction to basic and intermediate dance techniques. Exploration of the cultural and historical contributions of jazz dance, including social dances, period dances, and rhythmic dances that engage syncopate and accented rhythmic phrases.

PED 261 **One Credit**

TEAM SPORTS: INVASION GAMES (EE)
PREREQUISITES: PED 158

The purpose of this course is to develop the tactical knowledge, skills, and movements for the invasion game category of games. The course will consist of teaching techniques, cues, progressions, skill transfer, error analysis, correction, personal skill development, activity planning, and peer teaching experiences.

PED 262 **One Credit**

**TEAM SPORTS II: NET/WALL & STRIKING/
FIELDING GAMES**
PREREQUISITES: PED 158

The purpose of this course is to develop the tactical knowledge, skills, and movements for the invasion game category of games. The course will consist of teaching techniques, cues, progressions, skill transfer, error analysis, correction, personal skill development, activity planning, and peer teaching experiences.

PED 271 **One Credit**

INDIVIDUAL SPORTS (EE)
PREREQUISITES: PED 158, 159

Development of skills in archery, golf, tennis, badminton, bowling, racquetball, pickle ball; fitness testing.

PED 272 **One Credit**

COOPERATIVE A& TARGET GAMES(EE)
PREREQUISITES: PED 158

The purpose of this course is to develop interpersonal and intrapersonal skills through participation in and planning of cooperative games skills. Additionally, tactical knowledge, skills and movements for Target games. The course will consist of teaching techniques and cues, progressions, skill transfer, error analysis and correction, activity planning and peer teaching experiences. Understanding how to develop interpersonal and intrapersonal skills in individuals is an important skill in each of these settings.

PED 280 **Three Credits**

INTRODUCTION TO PHYSICAL EDUCATION

Introduction to historical, philosophical, educational, psychological, biological, sociological, and career emphasis related to the field of physical education.

PED 287 **Three Credits**

HUMAN ANATOMY (FO)

PREREQUISITE: BIO 100, BIO 100L

Part I of a two-part course dealing with the anatomical and functional relationships of the human body. In lecture and laboratory settings, the course is designed to acquaint students with the general organization of the body, the skeletal, muscular, integumentary and nervous systems, special senses..

PED 287L **One Credit**

HUMAN ANATOMY LAB (FO)

(Student must be enrolled in both courses at the same time)

PREREQUISITES: None

Part I of a two-part course dealing with the anatomical and functional relationships of the human body. In lecture and laboratory settings, the course is designed to acquaint students with the general organization of the body, the skeletal, muscular, integumentary and nervous systems, special senses..

PED 288 **Three Credit**

PED 288L **One Credit**

HUMAN PHYSIOLOGY WITH LAB (SO)
(Student must be enrolled in both courses at the same time)

PREREQUISITES: PED 287, 287L or BIO 165/165L (Must have a solid C or higher grade)

Part II of a two-part course dealing with the anatomical and functional relationships of the human body. In lecture and laboratory settings, the course is designed to acquaint students with the structure, function, regulation, and integration of organs and organ systems of humans.

PED 300/300H **Two Credits**

ADVANCED FITNESS THROUGH WEIGHT TRAINING (SO)

PREREQUISITE: PED 200

Students will gain advanced experiences working with Olympic free weights, variable resistance machines, resistance bands and stability balls. Preparation for Personal Training Certification is also included..

PED 325**Three Credits****LIFEGUARD TRAINING (SO)**

Learn how to effectively prevent and respond to water emergencies with American Red Cross lifeguard training. This course is designed to examine the skills and knowledge for a variety of scenarios in and around the water. With lifeguard training, you will learn how quick response times and effective preparation are vital to being a lifeguard while also understanding the crucial elements in helping to prevent drownings and injuries.

PED 335/ 335H**Two Credits****SKILL ANALYSIS (SO)**

PREREQUISITES: PED 158, 159, 261, 262, 271, 272

The purpose of this course is to develop the knowledge and skills required to assessing movement skills and performance techniques. Integrations of theory, technology and assessment trends are included in assignments.

PED 356**Three Credits****KINESIOLOGY (SO)**

PREREQUISITES: PED 287, 287L, 288, and 288L

Study of the basic anatomical kinesiology and mechanical principles of movement as they apply to the human body, including anatomical details and neuromuscular function of the body, equilibrium and motion, and how these principles are influenced by various environmental mediums.

PED 357**Three Credits****ORGANIZATION AND ADMINISTRATION (FO)**

PREREQUISITES: PED 158, 159, 253, 261, 262, 271, 272, 350, 356, 365, 477

Study of the structure and operations of a physical education program based on the philosophies, aims, objectives, policies, and procedures that provide maximum contributions to the total school program.

PED 358**Three Credits****CURRICULUM AND INSTRUCTIONAL PROCEDURES IN SECONDARY HEALTH AND PHYSICAL EDUCATION (SO)**

PREREQUISITES: PED 158, 253, 261, 271, 262, 350, 356, 365, 477; Pass PRAXIS Core.

Study of the methods and procedures for delivering instruction to students in secondary schools. Emphasis is placed on experiencing and analyzing appropriate physical activities, designing unit plans and lesson plans, and implementing instructional programs. Attention is focused on the development of flexible programs based on pupil needs, interests and capacity.

PED 361**One Credit****ATHLETIC COACHING AND OFFICIATING (FO)**

PREREQUISITES: PED 158, 159, 261, 262

Study of the fundamentals, techniques, and strategies of coaching and officiating team and individual sports.

PED 362**Two Credits****ATHLETIC COACHING AND OFFICIATING**

PREREQUISITES: PED 158, 159, 261, 262, and 361

This course is designed to develop a general understanding of coaching and officiating as it relates to ethics, values, behavior, organization and management. It is further designed to assist in the development of a philosophy of coaching and officiating.

The student will be exposed to a variety of activities, which will, hopefully provide a high level of exposure, satisfaction and individual appreciation for the various responsibilities associated with coaching.

PED 365**Three Credits****ADAPTED PHYSICAL EDUCATION (EE)**

PREREQUISITES: PED 287, 288 or equivalents

Study of principles and practices of Physical Education with emphasis on the nature, needs, and abilities of challenged individuals. Activities modified to meet the needs of these individuals.

PED 369**Three Credits****MEASUREMENT AND EVALUATION (EE)**

PREREQUISITE: General Math Course

Analysis of test and measurements commonly used in physical education. Introduction to basic statistical procedures for test selection, construction, and administration.

PED 380/380H**Three Credits****ELEMENTARY PHYSICAL EDUCATION METHODS (EE)**

PREREQUISITES: PED 158, 159, 253, 261, 262, 271, 272, 356, 365, 477; Pass PRAXIS Core

Student will examine current issues in elementary physical education, construct and teach developmentally appropriate units, establish a sound understanding of organizational techniques and methodology focusing on effective use of academic learning time, and critique teaching methods through systematic observation of practice.

PED 441**Three Credits****DRIVER TASK ANALYSIS (FO)**

PREREQUISITES: PED 158, 159, 253,161, 262, 271, 272, 365, 356, Pass PRAXIS Core

This is the first of two courses required to obtain certification in Driver Education. Introduces the "driver task" as related to the highway transportation system and factors that influences performance ability. Prepares students to become eligible to take the certification exams for driving school instructions in both public and private schools.

PED 443**Three Credits****DRIVERS REHABILITATION**

PREREQUISITE: PED 441

This course provides the methods to plan, develop, coordinate and implement driver rehabilitation services for individuals with disabilities. Specifically, the course specializes in preparing professionals to help train individuals become safe and capable independent drivers following injury or illness, as well as those experiencing a change in abilities as a result of the natural aging process. Completion of the course prepares students to take the driver rehabilitation certification exam.

PED 444**Three Credits****PRINCIPLES AND METHODS OF CLASSROOM AND IN-CAR INSTRUCTION (EE)**

PREREQUISITE: PED 441

This is the second of two teacher preparation courses. This course provides methods of teaching the required in-car segment of driver education.

PED 447**Three Credits****PHYSIOLOGICAL BASIS OF EXERCISE**

Study of physiological responses, adjustments, and adaptations to the acute stress of exercise and physical activity, and the chronic stress of physical training.

PED 450/450H**Three Credits****MOTOR LEARNING (FO)**

PREREQUISITE: Anatomy I & Anatomy II

Study of motor learning theories and the application of planning physical activity throughout the lifespan. The content will address the physiological, cognitive, social and physical aspects which affect skill acquisition, motor performance, and the teaching-learning process.

PED 451**Three Credits****PSYCHOLOGICAL ASPECTS OF SPORTS (SO)**

Study of both the psychological factors that influence participation in sports and exercises and the psychological effects derived from that participation including motivation, personality, aggression, violence, and leadership through group dynamics of exercise and well-being.

PED 477/477H**Three Credits****PHYSIOLOGY OF MUSCLE EXERCISE (EE)**

PREREQUISITES: Anatomy I & Anatomy II

Study of physiological responses, adjustments, and adaptations to the acute stress of exercise, physical activity, and the chronic stress of physical training.

PED 480**Three Credits****PRINCIPLES OF PHYSICAL EDUCATION (FO)**

PREREQUISITE: PED 280

Study of the scope and significance of physical education through the development of a basic philosophy of education. Discussion and reflection on issues relevant to contemporary physical education, including multiculturalism, aggression in sports, women in sports, and physical activity promotion for girls and minority populations. Emphasis on resume building and interviewing skills for careers in physical education.

PED 495**Three Credits****INTERNSHIP EXPERIENCE I (E)**

This course provides students with the opportunity to integrate academic preparation with practical "hands-on" experience in an approved supervised health and fitness work setting.

This internship is also designed to provide students the opportunity for career exploration to discover the type of preferred work environment, and skill development, especially networking, in the field. Students must complete **100 documented hours**.

PED 496**Twelve Credits****EXERCISE SCIENCE INTERNSHIP**

The Exercise Science Internship provides students with the opportunity to apply hi/her knowledge and gain practical experience working with patients and/or clients referred for medically prescribed exercise to general health and wellness. The supervised internship may occur through university and private rehabilitation clinics, hospitals, mental health, nursing, and wellness centers as well as special schools. Students in the Health Fitness Instructor (HFI) and Health Wellness Rehabilitation (HWR) Curriculum must complete **600 documented hours**.

** Enrollment requires completion of requirements for admission to teacher education.*

PHYSICS (PHY)

PHY 152, 153 Three Credits Each GENERAL PHYSICS (E)

PREREQUISITE: MTH 153 COREQUISITE: PHY 152L, 153L
Study of mechanics, heat, sound, electricity, magnetism, light, and modern physics. (2 hours lecture/1 hour recitation)

PED 152L, 153L One Credit Each GENERAL PHYSICS LABORATORY (EE)

PREREQUISITE: PHY 152, 153

Opportunity to investigate the laws and principles of physics and to make conclusions based on observations and analyses.

PHY 154 Three Credits PHYSICS OF MUSIC (SO) PREREQUISITE: MTH 153

Team-taught study of mechanical vibrations, sound, acoustics of halls and musical instruments, electro-acoustic, electronic music, musical scales, waveform analysis, recording and reproduction of musical sounds. (1 hour lecture, 2 hours experiment, project recitation)

PHY 160, 161 Four Credits Each UNIVERSITY PHYSICS (FO)

COREQUISITE: MTH 184, PHY 160L, PHY 161L

Study of mechanics, heat, sound, light, electricity and magnetism, and modern physics. Emphasis on analytical methods with application of calculus and problem solving.

PHY 160L, 161L One Credit Each UNIVERSITY PHYSICS LABORATORY (FO)

COREQUISITES: PHY 250, 251

Opportunity to investigate the laws and principles of physics and to make conclusions based on observations and analysis.

PHY 241 One Credit SEMINAR (SO)

PREREQUISITES: PHY 160, 161

Presentation and discussion of current topics in all areas of physics. Required of sophomore physics majors.

PHY 260 Four Credits UNIVERSITY PHYSICS III (FO) PREREQUISITES: PHY 160, 161

Study of basic concepts and principles oscillatory motion, mechanical waves, electro-magnetic waves, geometrical optics, physical optics, and special relativity. Calculus and vector methods used throughout the course.

PHY 297 Three Credits INTRODUCTION TO RESEARCH (SI)

PREREQUISITE: Sophomore Status and Permission of Instructor

Acquisition of fundamental skills in experiment design, data analysis, and other research skills. Undergraduate research supervised by a faculty member.

PHY 345 Three Credits MATHEMATICAL METHODS FOR PHYSICAL SCIENCES I (SO)

PREREQUISITES: PHY 160, 161; MTH 252

Introduction to advanced mathematical topics, including complex numbers, vectors, matrices, series, and differential equations with special emphasis on applications to physics.

PHY 350 Three Credits MODERN PHYSICS (SO) PREREQUISITES: PHY 160, 161; MTH 251

COREQUISITE: MTH 252

Introduction to modern physics including relativity, atomic structure, nuclear structure, radioactivity, nuclear reactions, and elementary particles.

PHY 351 One Credit EXPERIMENTAL CONCEPTS IN MODERN PHYSICS (SO) PREREQUISITES: PHY 350; MTH 252

Emphasis on experimental techniques, including G.M. counters, flow counters, absorption of radiation, half-life, range of alpha particles spectroscopy, selected experiments in neutron physics, and selected experiments in radiochemistry. (Two hours laboratory per week).

Presentation and discussion of current topics in all areas of physics. Required of sophomore physics majors.

PHY 353 Three Credits INTRODUCTION TO SOLID STATE PHYSICS

PREREQUISITES: MTH 252; PHY 350

Introduction to the theory of solids, including introductory wave mechanics; electronic energy levels in atoms and molecules; wave mechanics of the hydrogen atom; motion of electron in a periodic lattice; structure, elastic properties, and dynamic properties of crystals; motion of electrons in solids; energy bands and the band theory of solids; theory and application of semiconductors, Hall effect, p-n junctions; semiconducting rectifiers and semiconducting devices, and electrical and magnetic properties of solid superconductors.

PHY 356**Three Credits****HEAT AND THERMODYNAMICS (SO)**

PREREQUISITES: PHY 250, 251; MTH 252

COREQUISITE: MTH 372

Examination of thermal equilibrium and the concepts of temperature, thermodynamic systems, work, heat, and the Laws of Thermodynamics, thermal properties of materials, heat engines, reversibility, Carnot's theorem, enthalpy, and the Helmholtz and Gibbs functions. Applications are made to surfaces, pure substances, magnetic materials in a magnetic field, flow processes, chemical reactions, mixture of gases and fuel cells, steam engines and turbines.

PHY 365, 366**Three Credits Each****PHYSICAL MECHANICS I, II (FO)**

PREREQUISITES: PHY 320, 350; MTH 372

Study of elements of vector analysis, laws of dynamics and statics of particles, cables and rigid bodies, central forces and celestial mechanics, theory of vibrations, and special relativity. Survey of mechanics comparable to the classical Newtonian approach, utilizing topics such as generalized coordinates.

PHY 375**Three Credits****ELECTRICITY AND MAGNETISM I (FO)**

PREREQUISITES: PHY 350; MTH 252, 372

Introduction to classical electromagnetic theory. Topics include elements of vector analysis, static and time-dependent electric and magnetic fields, electric and magnetic properties of matter, electromagnetic induction, and Maxwell's equations.

PHY 380**Three Credits****QUANTUM MECHANICS I (FO)**

PREREQUISITES: PHY 320, 350; MTH 372

Introduction to Schrodinger's equation and topics, including free particle wave functions, square well and simple harmonic oscillator potentials, the hydrogen atom, and identical particles.

PHY 397**Three Credits****INTRODUCTION TO RESEARCH**

PREREQUISITE: Junior Status and Permission of Instructor

Development in the skills of research, including preparations, fabrication, design and execution of experiments, data analysis. Undergraduate research supervised by a faculty member.

PHY 399**Two Credits****ADVANCED LABORATORY (SO)**

PREREQUISITES: PHY 350, 351, 365

Introduction to techniques of advanced experimentation and to development of research and in technical writing skills. Experiments in mechanics, heat, electronics, optical spectroscopy, and atomic and nuclear physics.

PHY 445**Three Credits****MATHEMATICAL METHODS FOR PHYSICAL SCIENCES II (FO)**

PREREQUISITES: PHY 345; MTH 372

Study of advanced mathematical topics, including Fourier series, calculus of variations, series solutions of differential equations, and partial differential equation, with special emphasis on applications to physics topics.

PHY 468**Three Credits****OPTICS (FO)**

PREREQUISITES: PHY 350; MTH 252

Focus on topics from geometrical and physical optics, including circular and elliptical polarization, thick-lens equations, Fresnel and Fraunhofer diffraction, interference and dispersion of electromagnetic waves, fiber optics, and optical pumping.

PHY 475**Three Credits****ELECTRICITY AND MAGNETISM II (FO)**

PREREQUISITE: PHY 375

Advanced treatment of classical electromagnetic theory, including electrostatic and magnetostatic fields, electric and magnetic properties of matter, Maxwell's equations and time-dependent electric and magnetic fields, electromagnetic waves, and radiation.

PHY 480**Three Credits****QUANTUM MECHANICS II (SO)**

PREREQUISITE: PHY 380

Advanced treatment of Schrodinger equation and topics, including free particle wave functions, square well and simple harmonic oscillator potentials, the hydrogen atom, identical particles, perturbation theory, and collision theory. Emphasis on applications to nuclei, atoms, molecules, and solids.

PHY 490**Three Credits****PHYSICS DEMONSTRATIONS (SI)**

PREREQUISITE: Permission of Instructor

Presentation and discussion of classical and modern demonstration experiments used in the teaching of general and intermediate physics. Exercises in mechanics, heat, optics, electricity, magnetism, and modern physics.

PHY 491**Three Credits****EXPERIMENTAL CONCEPTS IN PHYSICS (SI)**

PREREQUISITE: Permission of Instructor

Introduction to the techniques of intermediate and advanced experimentation and skills in technical writing. Experiments in mechanics, heat, optics, electricity, magnetism, and modern physics.

PHY 495**One Credit****PHYSICS EDUCATION RESEARCH (SI)**

PREREQUISITE: Senior Status and Permission of Instructor

Supervised investigation of a physics education research problem, including planning, execution, and analysis. Report preparation, oral presentation, and completion of senior assessment examination required.

PHY 498**Two Credits****SENIOR PROJECT I (FO)**

PREREQUISITE: Senior Status and Permission of Instructor

Preparation and presentation of Senior Project proposal planned with a faculty mentor. Oral report describing the plan is required. A faculty review panel offers suggestions for revisions where needed.

PHY 499**Two Credits****SENIOR PROJECT II (SO)**

PREREQUISITE: PHY 399

Supervised investigation of a research problem, including planning, execution, and analysis. Preparation of report, oral presentation, and completion of senior assessment examination required.

PHY 590**Three Credits****PHYSICS DEMONSTRATIONS (SI)**

PREREQUISITE: Permission of Instructor

Presentation and discussion of classical and modern demonstration experiments used in the teaching of general and intermediate physics. Exercises in mechanics, heat, optics, electricity, magnetism, and modern physics.

PHY 591**Three Credits****EXPERIMENTAL CONCEPTS IN PHYSICS (SI)**

PREREQUISITE: Permission of Instructor

Introduction to the techniques of intermediate and advanced experimentation and skills in technical writing. Experiments in mechanics, heat, optics, electricity, magnetism, and modern physics.

POLITICAL SCIENCE (POS)**POS 100****Three Credits****AMERICAN NATIONAL GOVERNMENT (E)**

Coordinated study of the development of American government including the historical development of the United States and the organization and functions of government.

POS 180**Three Credits****INTRODUCTION TO POLITICAL SCIENCE (EE)**

Introduction to the basic concepts and fundamental substantive divisions of the field of political science.

POS 230**Three Credits****AMERICAN PUBLIC POLICY (EE)**

Introduction to the basic theories and concepts of policy analysis, with particular emphasis on the policy-making process at the federal level; examines such selected policy issues as welfare, health insurance, and housing. The course also seeks to assess the impact of policy decisions on various groups in American society.

POS 231**Three Credits****AMERICAN STATE AND LOCAL GOVERNMENT (E)**

Intensive study of the legal and political processes of the sub-systems of state and local government. There is a detailed emphasis on federal state, interstate, and state local relations.

POS 250**Three Credits****INTRODUCTION TO PUBLIC ADMINISTRATION (EE)**

PREREQUISITE: POS 230

Focus on the organization, responsibility, personnel management, fiscal processes, functions and problems of public administration.

POS 310

Three Credits

METROPOLITAN AND REGIONAL DEVELOPMENT (SI)

Analysis of the impact of metropolitan growth on municipalities, with a focus on revenues, public services and political empowerment.

POS 315

Three Credits

AFRICAN - AMERICAN POLITICS (EE)

Systematic examination of the African- American in the

American political system, covering various periods of the African-American political experience.

POS 320

Three Credits

THE AMERICAN PARTY SYSTEM (SI)

Study of the nature, function, evolution, and organization of political parties in the United States, with particular emphasis on the relationship of special interest groups with the party system.

POS 323

Three Credits Each

COMPARATIVE GOVERNMENT (SI)

Study of the organization, structure, and politics of the major European governments, with special emphasis on the political systems of Great Britain, France, West Germany, and the Former Soviet Union.

POS 325

Three Credits

AMERICAN FOREIGN POLICY (SI)

Study of the background, responsibilities, and consequences of United States foreign policy from 1787 to the present. Special emphasis is based on the diplomatic origins of the major wars, the peacemaking efforts which followed each war, and assessment of American foreign policy toward major regions of the world and international organizations.

POS 332

Three Credits

INTRODUCTION TO JURISPRUDENCE (E)

Intensive examination of the schools and theories of jurisprudence, historical development of legal systems, legal reasoning, and juristic processes.

POS 333

Three Credits

METHODS OF RESEARCH (EE)

Focus on the problems of methodology in empirical research, emphasizing hypothesis testing and the quantification of data. This course provides experience in the use of public documents, aggregate data, and survey data in research designs and policy evaluation.

POS 337

Three Credits

AMERICAN CONSTITUTIONAL LAW I (EE)

POS 332 RECOMMENDED BEFORE TAKING COURSE

Study of the basic principles of the American constitutional system. Emphasis is placed on the judicial interpretation and application of these principles in construing the powers of the government and the rights of individuals . These courses examine the historical background of major federal court decisions.

POS 338

Three Credits

AMERICAN CONSTITUTIONAL LAW II (EE)

POS 332 RECOMMENDED BEFORE TAKING COURSE

Study of the basic principles of the American constitutional system. Emphasis is placed on the judicial interpretation and application of these principles in construing the powers of the government and the rights of individuals . These courses examine the historical background of major federal court decisions.

POS 345

Three Credits

STATISTICS AND DATA PROCESSING FOR POLITICAL

ANALYSIS (EE)

Examination of parametric and non- parametric statistics in terms of data description and hypothesis testing in political research and policy analysis;, including the capabilities of the computer in data storage, management, and statistical analysis (as applied to research problems).

POS 350

Three Credits

ORGANIZATION THEORY AND BEHAVIOR (SO)

Examination of the structure and function of public organizations, with emphasis on theories of administrative hierarchies and evaluation of bureaucracies.

POS 360

Three Credits

INTERNATIONAL RELATIONS (FO)

Focus on humans as a part of nature, acting in their political environment over time. This course examines relationships among nations relative to conflicts, treaties, economic integration, etc.

POS 422

Three Credits

PUBLIC OPINION AND PROPAGANDA (SI)

Intensive study of the nature, measurement, and function of public opinion. Special emphasis is placed on the problem of symbol manipulation and its relation to the formation of public policy in a democratic society.

POS 428

Three Credits

VIRGINIA GOVERNMENT AND POLITICS (SI)

Basic study of Virginia's constitution, political parties, election laws, legislative/executive/ judicial functions, economic services, social services and social welfare.

POS 430	Three Credits
POLITICAL THEORY (FO)	
Study of the political theories of Plato, Aristotle, selected Greek, Roman and medieval writers, to Machiavelli. Critical analyses of enduring political problems.	
POS 431	Three Credits
MODERN THEORY (SO)	
Critical analyses of enduring political problems in the writings of European theorists from Machiavelli to the present.	
POS 435	Three Credits
MUNICIPAL GOVERNMENT (SI)	
Study of the organizations, functions, problems, and approaches to the solution of problems in urban areas.	
POS 442	Three Credits
INTERNATIONAL LAW (SO)	
Intensive study of the substantive content of the law of international relations. Special emphasis is placed on problems of enforcement of laws, etc.	
POS 443	Three Credits
ADMINISTRATIVE LAW (SO)	
Introduction to the American legal system using a case study approach.	
POS 451	Three Credits
PUBLIC PERSONNEL ADMINISTRATION (FO)	
PREREQUISITE: POS 350	
Focus is placed on the recruitment, examination, placement, remuneration, morale, retirement, training, and other related issues which impact public service.	
POS 461	Three Credits
INTERNATIONAL ORGANIZATION (SI)	
PREREQUISITE: POS 360	
Study of the organization, functions, structure, and problems of the United Nations and other international organizations.	
POS 462	Three Credits
THE NEAR (MIDDLE) EAST IN INTERNATIONAL AFFAIRS (SI)	
PREREQUISITE: POS 360	
Survey of the Near East, focusing on its relation to the struggle for international ascendancy of the Western powers. Emphasis is placed on the nineteenth and early twentieth centuries, as well as the contemporary period.	
POS 463	Three Credits
POLITICS OF AFRICAN NATIONS (SI)	

POLITICS OF AFRICAN NATIONS (SI)	
Examination of the resolution of conflict, and the promotion of survival, of the independent nations south of the Sahara Africa, through comparison of political ideologies and through case studies of individual nations. There is an analysis of traditional African systems and the various colonial systems of the new governments.	
POS 466	One/Three Credits
READINGS IN GOVERNMENT AND PROBLEMS IN GOVERNMENT (E)	
PREREQUISITE: Permission of department for non-Political Science Majors	
Independent reading and analytical reporting on works outside the immediate scope of formal courses. Special emphasis is placed on the depth of various perspectives.	
POS 467	Three Credits
INTRODUCTION TO NON- WESTERN POLITICS (SI)	
Introduction to the general patterns of politics in the areas of Latin America, the Middle East, the Far East, and areas of Africa, north of the Sahara. Class discussions will include an analysis of political instability, political groups and ideologies, organizations of political authority, and the problems of political integration.	
POS 468	Three Credits
A SURVEY OF CONTEMPORARY GOVERNMENTS OF ASIA (SI)	
Survey of the governments and the politics of the countries of Asia; with attention to geographic, economic, and cultural conditions, out of which present governments evolve.	
POS 493	Nine Credits
POS 493A	Three Credits
PUBLIC ADMINISTRATION INTERNSHIP (E)	
PREREQUISITES: Organization Theory and Behavior (POS 350) and Public Personnel Administration (POS 451)	
Internship in a private or governmental agency. See faculty Public Administration Internship Coordinator for specific requirements.	
POS 494	Six Credits
POS 494A	Three Credits
PRE-LAW INTERNSHIP (E)	
Internship offers an invaluable opportunity to gain knowledge, skills and exposure to the private and/or public legal profession. See faculty Pre-law Internship Coordinator for specific requirements.	
POS 499	Four Credits
SENIOR PROJECT (SI)	
Selected research topic includes collection, analysis, and presentation of an organized research effort. The research topic chosen must be approved by instructor.	

PSYCHOLOGY (PSY)

PSY 210 **Three Credits** **INTRODUCTION TO PSYCHOLOGY (E)**

Introduction to the scientific study of human behavior and mental processes. Emphasis on theoretical approaches, concepts, principles, and research findings. Overview of selected areas in psychology that provides the foundation for further study in psychology. Topics include critical thinking, neuroscience, nature/nurture, consciousness, motivation, work, stress and health, and psychological disorders.

PSY 211 **Three Credits** **BASIC PRINCIPLES OF PSYCHOLOGY (EE)**

PREREQUISITE: PSY 210

Overview of selected topics in psychology as a continued introduction to psychology begun in PSY 210. Emphasizes theoretical approaches, concepts, principles, and research findings. Topics include sensation, perception, learning, memory, thinking, language, intelligence, personality, therapy, and social psychology.

PSY 220 **Three Credits** **CHILD PSYCHOLOGY (SI)**

Study of the physical growth and the psychological development of the child, emphasis on the significance of physical, social, cognitive, personality, and language development in the early years.

PSY 225 **Three Credits** **ADOLESCENT PSYCHOLOGY (SI)**

Study of adolescents' physical growth, psychological development, and behavior. Emphasis on the major determinants of adolescent development and behavior, the theoretical approaches, concepts, principles, and research findings about adolescence and their applications in real-life situations.

PSY 228 **Three Credits** **DEVELOPMENTAL PSYCHOLOGY (EE)**

Comprehensive study of the psychological development of the individual, including linguistic, social, personality, and cognitive aspects of development from conception through late adulthood.

PSY 230 **Three Credits** **EDUCATIONAL PSYCHOLOGY (SI)**

Introduction to the psychological principles relevant to the processes of education and the theory of educational institutions.

PSY 250 **Three Credits** **SOCIAL PSYCHOLOGY (SO)**

PREREQUISITE: PSY 210

Study of the influence of social factors on behavior of individuals and small groups. Emphasis on interpersonal behavior. Exploration of theories concerning social interaction, social influence, aggression, prejudice and attitude change, and socialization.

PSY 270 **Three Credits** **PSYCHOLOGICAL STATISTICS (EE)**

PREREQUISITES: MTH 103, PSY 210, 211

Study of the basic principles and techniques employed in the fields of descriptive and inferential statistics, as well as the fundamental laws of probability. Emphasis on techniques of summarizing and standardizing data; correlation and regression; sampling distribution; analysis of variance; hypotheses testing using parametric as well as nonparametric tests, and probability.

PSY 280 **Three Credits** **ABNORMAL PSYCHOLOGY (EE)**

PREREQUISITE: PSY 210

Introduction to the various descriptions and classifications of psychopathology and theories of the origin of mental disorders, including different approaches to the treatment of abnormal behavior.

PSY 311 **Three Credits** **EDUCATIONAL TESTS AND MEASUREMENTS (SI)**

PREREQUISITE: Consent of Instructor

Study of the general field of tests and measurements, including the application of statistics. Introduction to factors involved in the selection and administration of group tests of achievement, aptitude, mental ability, and personality.

PSY 312 **Three Credits** **BEHAVIOR ANALYSIS (SI)**

PREREQUISITE: PSY 210

Introduction to the concepts involved in behavioral change and in the planning of effective intervention strategies. Focuses on various methods of observing and measuring behavior with emphasis on behavioral task analysis.

PSY 313 **Three Credits** **BEHAVIOR MANAGEMENT (SI)**

PREREQUISITES: PSY 210, PSY 312

Study of learning and behavioral programs. Emphasis on learning theory applications including contingency contracting, token economies, modeling, and similar techniques.

PSY 322 **Three Credits** **PSYCHOLOGY OF EXCEPTIONAL CHILDREN (SI)**

PREREQUISITE: Consent of Instructor

Study of the unique and typically abnormal psychosocial characteristics and stresses encountered by the handicapped child. Analysis of a child's behavior responses and personality development, ranging from normal adjustment mechanisms to the most serious pathological conditions.

PSY 331 **Three Credits** **PERSONALITY (FO)**

PREREQUISITE: PSY 210

Introduction to the nature of personality, its development, and its functioning. Examination of classical and contemporary theories and data.

PSY 340 **Three Credits** **PSYCHOLOGY OF THE AFRICAN AMERICAN (EE)**

Examination of the African-American person with a focus on the unique historical and current social influences on African-American personality development and functioning.

PSY 360**Three Credits****EXPERIMENTAL PSYCHOLOGY (EE)**

PREREQUISITES: PSY 210, 211, 270

Introduction to the application of experimental methods and techniques to psychological problems. Emphasis on experimental design, data collection and analysis, and fundamentals of report writing. (3 hours lecture/ 1 hour lab.)

PSY 380**Three Credits****PHYSIOLOGICAL PSYCHOLOGY (SI)**

PREREQUISITES: PSY 210, PSY 211, BIO 100

Study of the physiological processes underlying behavior, with emphasis on the role that the major systems of the body, in particular the nervous system, play in behavior.

PSY 381**One/Three Credits****TOPICS IN PSYCHOLOGY (SI)**

PREREQUISITE: Consent of Instructor

Supervised projects selected to suit the needs of the individual student.

PSY 381A**Three Credits****WRITING IN PSYCHOLOGY (EE)**

PREREQUISITES: PSY 210, PSY 211

This course provides the basic tenets of effective writing in Psychology to include effective implementation of APA style, as well as the development of sound writing skills.

PSY 381E**Three Credits****CYBERPSYCHOLOGY (SI)**

This course provides an overview of the applied field of CyberPsychology, emphasizing the relationship between humans and technology. We will explore behavior, psychological processes and social issues as they apply in the ever-changing world of computers and the Internet. We will examine a wide range of topics normally covered in an introductory course in psychology, but from an applied cyber-psychological perspective.

PSY 381F**Three Credits****CAREERS IN PSYCHOLOGY (SI)**

This course will provide Psychology majors with information and skills that will help students select and pursue a career in Psychology or a related field. This course will focus on the critical skills and experience required for entry into the workforce or graduate study.

PSY 381G**Three Credits****PSYCHOLOGY OF GROUPS (SI)**

The World English Dictionary defines Group Dynamics as [...] a field of social psychology concerned with the nature of human groups, their development, and their interactions." As a consequence, Group Dynamics is a sub-discipline of Social Psychology, Human behavior in groups and dynamic interactions within and between groups are obviously extremely important and continue to generate a vast social impact. Therefore, some of the questions that will be elaborated on during the course are: "What is a group?" "How are groups formed?" "What makes a well-structured cohesive group?" and "What makes a good leader?"

PSY 381P**Three Credits****POSITIVE PSYCHOLOGY (SI)**

This course focuses on the science of happiness and human strengths. It provides an overview of the major theories and research in this area.

PSY 381Q**Three Credits****CONFLICT ANALYSIS AND INTERVENTION (SI)**

Introduction to the general field of conflict analysis, management, and resolution, with additional application to crisis intervention. Interdisciplinary emphasis on conflict theory and psychological conceptualization to determine the root causes of intra- and interpersonal conflict between people and groups, given the environmental and cultural systems in which they exist.

PSY 390**Three Credits****FUNDAMENTALS OF LEARNING (SI)**

PREREQUISITE: Consent of Instructor

Survey of basic processes and principles of learning, as well as theoretical accounts of these processes. Examination of research findings from both human and animal subjects.

PSY 391**One/ Three Credits****READINGS IN PSYCHOLOGY (SI)**

PREREQUISITE: Consent of Instructor

Directed readings and supervised independent study of contemporary issues. Comprehensive coverage of a subject from assigned materials required.

PSY 391A**Three Credits****PSYCHOLOGY OF WOMEN (SI)**

The purpose of this course is to examine the lives of girls and women. We will include topics such as gender stereotypes, the development of gender roles, gender comparisons, women and work, love relationships, sexuality, women's physical and mental health, violence against women, and women in later adulthood. Students who take this course should acquire a better understanding about girls, women and gender in North America.

PSY 391B**Three Credits****HEALTH PSYCHOLOGY (SI)**

Examination of selected topics in the area of health psychology. Health, illness and medicine are studied from psychological and cultural perspectives, emphasizing theoretical approaches, concepts, and research findings within the field of health psychology. Topics of study will include stress across cultures, health across cultures, factors surrounding illness, and pain.

PSY 391D**Three Credits****PSYCHOLOGY OF RACISM (SI)**

This course is designed to provide students with an understanding of the psychological impact of racism in the United States. Through the use of writing and discussion, students will explore the impact of racism for Whites and people of color.

PSY 391E**Three Credits****PSYCHOLOGY OF THE LEADER (SI)**

This course explores various leadership theories, styles,

PSY 391E **Three Credits**

PSYCHOLOGY OF THE LEADER (SI)

This course explores various leadership theories, styles, models, topics, and best practices. This course provides an opportunity for students to learn and discuss leadership theories and to develop a personal understanding of leadership. The essential knowledge, skills and abilities of effective leaders are examined, such as managing conflict, facilitating communication and leading groups and teams. Students will be encouraged to examine their own leadership potential as they complete self-assessments and participate in leadership exercises.

PSY 391G **Three Credits**

PSYCHOLOGY OF MARRIAGE (SI)

This course is a review of theory and research pertaining to the psychological processes of intimate relationships and marriage. The course addresses interpersonal attraction, sexual behavior, love, ways of dating, cohabitation and divorce.

PSY 392 **One Credit**

SEMINAR IN COMMUNITY RESOURCES (EE)

PREREQUISITE: Consent of Practicum Director

Orientation to the activity of the mental health facility and other workplaces in Psychology. Agency representatives will serve as guest lecturers, and students will also gather information about potential practicum placements. Lectures, presentations, readings and discussions are formats for this seminar.

PSY 397 (497) **One/Three Credits**

RESEARCH IN PSYCHOLOGY (SI)

PREREQUISITE: Consent of Instructor

Supervised independent research projects aimed at answering empirical questions. Also, intimately involves the student in the conceptualization, design, implementation, and analysis and interpretation of empirical questions and research findings.

PSY 410 **Three Credits**

PSYCHOLOGY OF ADJUSTMENT (SI)

PREREQUISITES: PSY 210, 280

Study of the multiple aspects of adjustment and mental health, emphasizing the promotion of good adjustment and the prevention and treatment of maladjustment. Analysis of reactions to stress and effective means of coping with stress, emotional control, and positive striving.

PSY 420 **Three Credits**

INTRODUCTION TO PSYCHOLOGICAL TESTING (EE)

PREREQUISITES: PSY 210, 211, 270

Introduction to the theory and practice of psychological testing. Examination of intelligence, perceptual motor, and personality tests, along with their use in clinical, educational, and occupational testing settings.

PSY 430 **Three Credits**

CLINICAL METHODS IN PSYCHOLOGY (SI)

PREREQUISITES: PSY 210, 280, 331

Examination of clinical procedures in psychological evaluation and treatment. Introduction to the uses of psychological tests in making clinical judgments, and an overview of the various theoretical treatment methods such as individual, group, family, and community approaches.

PSY 440 **Three Credits**

DRUGS AND BEHAVIOR (SI)

PREREQUISITES: PSY 280

Survey of major principles and mechanisms of drug action including basic pharmacological principles, basic nervous system function and neurochemistry, non-pharmacological Variables (e.g., psychosocial, cultural), and a survey of specific classes of psychoactive drugs.

PSY 450 **Three Credits**

SYSTEMS IN PSYCHOLOGY (SI)

Critical survey of systems and theories in psychology, along with a broad overview of the historical and contemporary issues relevant to the study of psychology.

PSY 460 **Three Credits**

PERCEPTION (SI)

PREREQUISITE: Consent of Instructor

Intensive examination of empirical findings, experimental techniques, and theories related to the study of sensory and perceptual processes.

PSY 480 **Three Credits**

MOTIVATION AND EMOTION (SI)

PREREQUISITE: Consent of Instructor

Study of processes which activate behavior and provide major emphasis on the physiological origin of needs, drives, motives, and emotions. Exploration of critical behavioral data from human and animal studies, along with historical and contemporary theories.

PSY 492 **Three Credits**

PSYCHOLOGY SEMINAR (EE)

PREREQUISITE: PSY 210, PSY 211, PSY 270, PSY 360

Presentation of recent experimental and theoretical advances in selected areas of psychology. Class projects prepared and presented in a seminar format.

PSY 495 **Three to Six Credits**

PRACTICUM IN PSYCHOLOGY (EE)

PREREQUISITE: PSY 210, PSY 211, PSY 270, PSY 360

Supervised field experience in an applied setting, i.e., a mental health agency or other appropriate institution.

PSY 573 **Three Credits**

THE PSYCHOLOGY OF ETHNIC MINORITIES (SI)

Survey of the social science definitions of race and ethnicity, including the mental health consequences of racism on the lives of American minorities, with particular emphasis on the African American.

RELIGION (REL)

REL 110 **Three Credits**

INTRODUCTION TO THE BIBLE: OLD TESTAMENT (FS)

Examination of the writings, culture and personalities in the ancient literature known as the Old Testament. Survey of both literary and historical perspectives and the possible structures, functions, and meanings of this literature for its original community.

REL 111 **Three Credits**

INTRODUCTION TO THE BIBLE: NEW TESTAMENT (SO)

SED 385 **Three Credits**
CURRICULUM AND INSTRUCTIONAL PROCEDURES IN SCIENCE
PREREQUISITE: Passing Score on Praxis Core/SAT/ACT, VCLA

Study of methods and practices designed to assist prospective secondary teachers in defining and implementing the knowledge and skills necessary to effectively teach Science in the classroom.

SED 386 **Three Credits**
CURRICULUM AND INSTRUCTIONAL PROCEDURES IN FINE ARTS
PREREQUISITE: Passing Score on Praxis Core/SAT/ACT, VCLA

Study of methods and practices designed to assist prospective secondary teachers in defining and implementing the knowledge and skills necessary to effectively teach Fine Arts in the classroom.

SED 387 **Three Credits**
CURRICULUM AND INSTRUCTIONAL PROCEDURES IN ENGLISH
PREREQUISITE: Passing Score on Praxis Core/SAT/ACT, VCLA

Study of materials and methods for teaching, integrating, and assessing English language, literature, grammar, and composition with attention to current research and theories that inform best practices in language instruction.

SED 388 **Three Credits**
CURRICULUM AND INSTRUCTIONAL PROCEDURES IN FOREIGN LANGUAGES
PREREQUISITE: Passing Score on Praxis Core/SAT/ACT, VCLA

Study of materials and methods for teaching, integrating, and assessing foreign languages, literature, grammar, and composition with attention to current research and theories that inform best practices in language instruction.

SED 390 **Three Credits**
CURRICULUM AND INSTRUCTIONAL PROCEDURES IN HISTORY AND SOCIAL STUDIES
PREREQUISITE: Passing Score on Praxis Core/SAT/ACT, VCLA

Development of tools and strategies necessary to achieve high standards of learning for teaching social studies courses in secondary classrooms.

SED 405 **Three Credits**
READING IN THE CONTENT AREA
PREREQUISITE: None

Skills in this area are designed to impart an understanding of comprehension skills in all content areas, including a repertoire of questioning strategies, summarizing and retelling skills, and strategies in literal, interpretive, critical, and evaluative comprehension, as well as, the ability to foster appreciation of a variety of literature and independent reading.

SED 420 **Three Credits**
EDUCATIONAL TECHNOLOGY
PREREQUISITE: None

This course focuses on multimedia skills needed for competence in K-12 schools. Candidates are introduced to PowerPoint and Microsoft Excel as tools for grading in addition to innovations for online teacher management applications.

SED 499 **Twelve Credits**
DIRECTED TEACHING (INTERNSHIP)
PREREQUISITE: Completion of all Courses Required for Secondary Majors

Observation and participation at the secondary level, including off campus, field oriented activities (five days per week) under the supervision of cooperating public school/college personnel. Following observation and orientation under the direction of cooperating teachers, students will teach assigned classes. They also attend weekly sessions of discipline specific instructional method conducted by professors associated with the various disciplines.

SOCIAL WORK (SWK)

SWK 199 **Three Credits**
PROFESSIONAL DEVELOPMENT: LEADERSHIP & SOCIAL WORK (XE)

This course will introduce students to the BSW curriculum and begin to prepare them for the professional track of the BSW program. The course will orient students to the generalist social work practice and deliver a definitive message of characteristics, skills, and acceptable workplace professional behaviors essential to be a social work and global leader. Students will be expected to understand and abide by the National Association of Social Workers code of ethics, fine-tune their critical thinking skills and epitomize ethical and professional standards in all courses and activities at Norfolk State University and in the field practicum. Lastly, it will focus on self-awareness and the importance of being a life-long learner,

SWK 200 **Three Credits**
INTRODUCTION TO SOCIAL WORK (EE)

Introduction to the profession of social work which exposes students to social work history, values and ethics, intervention methods, fields of practice and organizational settings. Special emphasis on the nature and functions of social work and the diversity of roles for the generalist practitioner.

SWK 207 **Three Credits**
SOCIAL WELFARE POLICIES AND SERVICES I (EE)
PREREQUISITE OR COREQUISITE: SWK 200

Study of social problems and social work commitment to diversity, social and economic justice and populations-at-risk. Specific emphasis on the historical background of social welfare and the emergence of the social work profession.

SWK 220 **Three Credits**
HUMAN BEHAVIOR AND SOCIAL ENVIRONMENT (EE)
PREREQUISITES: SWK 207; PSY 210; SOC 110 or 101; HED 100; BIO 105

Examination of the dynamics of multi-level social systems, as they have an impact on the development and well-being of individuals from preconception through childhood. Study of the interaction between and among human biological, social, psychological and cultural systems as they affect and are affected by human behavior. Emphasis on the functions of human behavior, social environment theory, and research as they inform social work practice.

SWK 300 **Three Credits**
SOCIAL WELFARE POLICIES AND SERVICES II (EE)
PREREQUISITE: SWK 207

COREQUISITE: SWK 309 and SWK 312

Study of social problems and social work commitment to diversity, social and economic justice and populations-at-risk. Emphasis on the institutional nature of social welfare, the relationship to other institutions, and social welfare policies implemented into social welfare programs.

SWK 309 **Three Credits**
HUMAN BEHAVIOR AND SOCIAL ENVIRONMENT II (EE)
PREREQUISITES: SWK 220; PSY 210; BIO 105; HED 100; SOC 101

Examination of the dynamics of multi-level/social systems, as they have an impact on the development of individuals from adolescence through dying and death. Study of interaction between and among human biological, social, psychological and cultural systems as they affect and are affected by human behavior.

SWK 312 **Three Credits**
INTRODUCTION TO GENERALIST PRACTICE (EE)
PREREQUISITE: SWK 220

COREQUISITES: SWK 300 and SWK 309

This course is the first of three required courses in the General Practice Sequence. This first course provides students the foundation knowledge, values and skills that form the holistic conceptual framework of generalist social work practice.

SWK 313 **Three Credits**
GENERALIST PRACTICE: INDIVIDUALS/FAMILIES (EE)
PREREQUISITES: SWK 309 and SWK 312

COREQUISITE: SWK 319

This course is the second in the Generalist Practice Sequence. The course is designed to teach B.S.W. students how to differentially apply the general method of social work practice with individuals and families from diverse populations.

SWK 314 **Three Credits**
NATURE AND MEANING OF CHILD WELFARE (EE)
PREREQUISITE: SWK 300

This course is designed to present a broad knowledge of the principle child welfare services, programs, and policies that are aimed at strengthening and preserving the institution of the family and fostering the development and well being of children.

SWK 315 **Three Credits**
SOCIAL WORK PRACTICE WITH FAMILIES: TRAUMA INFORMED PRACTICE WITH CHILDREN AND FAMILIES
PREREQUISITE: SWK 312

Introduction to the knowledge of family dynamics and the intervention skills and techniques necessary to serve families efficiently and effectively, especially low income families. Emphasis on family intervention based upon systems concepts and eco-structural thinking.

SWK 318 **Three Credits**
GENERALIST PRACTICE: GROUPS, ORGANIZATIONS AND COMMUNITIES (EE)
PREREQUISITE: SWK 313

Examination of theories and methods of social work in macro and mezzo practice. Emphasis on the development of skills related to engagement, data collection, problem identification/assessment, intervention, termination and evaluation in working with groups, organizations and communities.

SWK 318H **Three Credits**
GENERALIST PRACTICE: GROUPS, ORGANIZATIONS AND COMMUNITIES (EE)
PREREQUISITE: SWK 200, 220, 300, 312, 313

This course is part 3 of a sequential course (SWK 312, 313, 318, 416) in the generalist practice sequence and is designed for seniors matriculating in the BSW Program. The course provides opportunities for students to examine theories and methods of social work in macro and mezzo practice. Building on the prerequisite education experience, this course emphasis is on the development of skills related to engagement, data collection, problem identification and assessment, intervention, termination and evaluation in working with groups, organizations and communities.

SWK 319 **Three Credits**
HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT III (EE)
PREREQUISITE: SWK 313

Examination of the dynamics of multilevel/social systems as they have an impact on the formation and development of the diverse contemporary American family. Emphasis on the interactions between and among family diversity, biological, social, psychological and cultural systems as they relate to the family unit.

SWK 320 **Three Credits**
HUMAN DIVERSITY & SOCIAL JUSTICE IN SOCIAL WORK (XE)
PREREQUISITE: SWK 200, SWK 207 & SWK 220

This undergraduate social work course examines the impact of discrimination and oppression on members of particular groups, i.e., ethnic minorities, women, elderly, disabled, gay, lesbian and transgender, while considering the effects of diversity on human behavior and attitudes. It will review how historical and contemporary policies and events affect how these populations exist and how social workers attend to systemic issues. The course examines the psychosocial and cultural dynamics within the context of the social work profession's mission and values, to understand the experiences and needs of oppressed groups to implement strategies to empower and engage in effective change. Lastly, students will look at the role, function, and intersections of oppression and power in society as it relates to social, racial and economic justice.

SWK 321 **Three Credits**
SOCIAL WORK AND THE AGED (SO)
PREREQUISITE: SWK 312

This course describes the process of aging from four areas of knowledge, biological, psychological, sociological, and economic, with emphasis on aging in America as it relates to social justice, and social problems.

SWK 324 **Three Credits**

HEALTH CARE AND SOCIAL SERVICES (FO)

PREREQUISITE: SWK 313

Overview of health care and its social services delivery system in America. Examination of the value orientation, sociocultural, racial/ethnic, political, economic, research, and policy aspects of health care. Emphasis on the roles of several health-care deliverers, and the impact of illness, environment, ecology, and nutrition.

SWK 326 **Three Credits**

TECHNIQUES OF COUNSELING (SS)

PREREQUISITE: SWK 312

This course presents an overview of the major theories of counseling and psychotherapy. It provides in-depth study of the basic theoretical assumptions and concepts of counseling individuals and families.

SWK 327 **Three Credits**

INTERVIEWING TECHNIQUES (EE)

PREREQUISITE: Students should be at the junior and senior levels

Study of the general principles and techniques of interviewing and recording, which may be applied not only in social work but also in other occupations.

SWK 329 **Three Credits**

**COMMUNITY AND NEIGHBORHOOD DEVELOPMENT:
SOCIAL ENTREPRENEURSHIP**

PREREQUISITES: Open to Social Work Juniors and Seniors

This is a three (3) credit hour elective course designed for second year and above Bachelor of Social Work students, but available to students from various disciplines to take as a credit-awarding elective. An individual completing this course will have a beginning level ability to conceptualize community and neighborhood empowerment from a social work, community practice, community development, and a business and economic development perspective.

SWK 333 **Three Credits**

METHODS OF SOCIAL WORK RESEARCH

PREREQUISITE: SWK 200, 207 & 220, Liberal Arts Core

This course introduces social work students to the fundamental concepts of research principles and methodologies used in the Social Work profession.

SWK 411 **Three Credits**

CONTEMPORARY SOCIAL POLICY ISSUES (SO)

PREREQUISITE: Open to senior Social Work majors

Contemporary Social Policy issues is an advanced elective policy course for the baccalaureate social work student who is trained as a generalist. This course, generally taken in the junior/senior year, builds on students' liberal arts perspective, foundation policy classes, as well as the knowledge, values, and skills gained in the Generalist Practice, Human Behavior, and Research sequences.

SWK 416 **Three Credits**

GENERALIST PRACTICE: EVALUATION (EE)

PREREQUISITES: SOC 344, 355; SWK 318

Focus on understanding and refining skills in the application of the techniques for evaluation of generalist practice. Emphasis on understanding and refining practice skills that center on evaluation of social work practice. Research procedures and designs studied as a means of objectively assessing the efficiency and efficacy of social work practice intervention. Ethical issues of practice and evaluation practices are addressed relative to oppressed populations.

SWK 490, 491 **One Credit Each**

PRACTICUM SEMINAR I and II (EE)

PREREQUISITES: All previously required courses and concurrent enrollment in practicum

Opportunity to integrate theory with field practice. Also assists in evaluating practice performance while exploring personal and professional values and ethics.

SWK 492 **Three Credits**

INDEPENDENT STUDY IN SOCIAL WORK (EE)

PREREQUISITE: Open to senior Social Work majors

Opportunities to engage in student and/or faculty-initiated special projects which explore some dimension of social work practice and/or theory.

SWK 495, 496 **Ten Credits**

PRACTICUM IN SOCIAL WORK I and II (EE)

PREREQUISITES: All previously required courses and concurrent enrollment in seminar

Internship in a social welfare agency. 225 hours per semester while engaged in a supervised practice experience where generalist skills are utilized/required.

SWK 497 **Three Credits**

MACRO AND MICRO PERSPECTIVES ON

INTERNATIONAL SOCIAL WELFARE (FO)

PREREQUISITE: Open to senior Social Work majors

This course is an advanced level social policy course designed primarily for the baccalaureate student interested in exploring the interplay among macro social systems in selected western and non-western societies as they relate to general social welfare.

SWK 498A/499B**Zero Credits****B.S.W. FIELD PRACTICUM ORIENTATION I AND II**

PREREQUISITE: All previously required courses and concurrent enrollment in B.S.W. Field Practicum

This is an orientation course designed to provide the undergraduate social work field practicum student with the knowledge, values and skills necessary to prepare and navigate a successful and advanced field education experience. The purpose of this course is to help students understand their role, function and responsibilities as practicum students. In addition, this course will outline the relationship of the practicum agency to the field experience and explore the importance of ethical and professional behavior.

SOCIOLOGY (SOC)

SOC 101**Three Credits****INTRODUCTION TO THE SOCIAL SCIENCES (E)**

Introduction to common and divergent perspectives of the social sciences, including the general methods and special techniques used by social scientists to acquire an understanding of how human beings behave. Emphasis on the United States and on a global context.

SOC 110**Three Credits****INTRODUCTION TO SOCIOLOGY (E)**

Introduction to the basic perspectives, concepts, and principles of sociology, with emphasis on basic social processes such as social organization, culture, socialization, deviance, and inequality. Study of the functioning and influences of major social groups, such as the family and government. Application of the principles to understanding everyday life.

SOC 137**Three Credits****SOCIAL PROBLEMS (FS)**

Study of current social issues such as poverty, race and ethnic relations, unemployment, crime, drug use, the elderly, population and environmental problems. Examination of various explanations, consequences, and suggested solutions for each problem.

SOC 205**Three Credits****HUMAN SEXUALITY (SS)**

Examination of the sociocultural, psychological and physiological factors related to human sexual behavior. A forum for a scientific examination of the various processes by which humans develop and manifest their sexual identity and sexual behavior.

SOC 225**Three Credits****SOCIAL SCIENCE RESEARCH SKILLS (E)**

PREREQUISITE: Sophomore Standing

Development of knowledge of using a large number of library resources to enhance skills in choosing a research topic, making a bibliography, taking notes, writing and outlining, collecting primary data, interpreting tables and graphs, and writing research papers and abstracts.

SOC 228**Three Credits****DEMOGRAPHIC PRINCIPLES (FS)**

PREREQUISITE: SOC 110 or Consent of Instructor

Study of the relationship between population and society; the historic growth of population and its causes; the composition and historic growth of population in terms of age, sex, race, occupation, education, and health; factors influencing birth and death rates; and trends and problems in world population.

SOC 234**Three Credits****URBAN SOCIOLOGY (SO) (SS)**

PREREQUISITE: SOC 110 or Consent of Instructor

Study of origin and development of urban life with emphasis on the family, housing, health, education, poverty and dependency, crime and the treatment of the criminal.

SOC 237**Three Credits****RACIAL AND ETHNIC MINORITIES (E)**

Examination of problems and issues characterizing interaction patterns among different racial, ethnic, and religious groups. Study of the concepts of race, nationality, prejudice, and discrimination, including racism, intergroup conflict, segregation, unemployment, crime and juvenile delinquency, education, housing and instability, and poverty in contemporary industrial urban societies. Focus on psychological, social, and cultural factors that influence interaction between dominant and minority groups, as well as the issues and problems related to blacks in the United States.

SOC 242**Three Credits****INTRODUCTION TO ANTHROPOLOGY (SI)**

Study of human evolution, racial origins, prehistoric cultures, modern races and their classifications, problems of race, nationality, language, mixture, and mental differences; growth and spread of religion and culture. Special emphasis on the nature and diversity of culture.

SOC 250**Three Credits****SOCIETAL USES OF NATURAL RESOURCES (SI)**

PREREQUISITE: SOC 110 or Equivalent

Study of social implications of environmental issues, including the current energy situation. Examination of how societies depend on and interact with the natural environment, how they distribute and use natural resources, and how they create and react to pollution problems. Emphasis on social behavior, attitudes, and public policy issues. Evaluation of alternative strategies for solving environmental and energy problems.

SOC 301**Three Credits****DEMOGRAPHIC METHODS I (SI)**

Study of the measurement of population size, distribution and age/sex structure, including fertility, mortality, migration, nuptial patterns, and population growth. Emphasis partly on derivation of demographic measures and the interpretation and real-world applications of these measures.

SOC 302**Three Credits****MIGRATION (SI)**

Study of migration with emphasis on its measurement, causes and consequences. Discussion of internal and international migration, including the consequences of migration on the "donor" and "host" areas. Examination of migration patterns within the United States, with emphasis on the migration patterns of African-Americans since the turn of the twentieth century. Study of the United States immigration policy with particular reference to refugee and immigration legislation.

SOC 303**Three Credits****FERTILITY AND FAMILYPLANNING (SI)**

Survey of fertility concepts, measurements, trends, levels, and explanations. Evaluation of the biological and social components of fertility. Fertility control is discussed with emphasis on intercourse, conception, and gestation variables. Social issues related to fertility are highlighted.

SOC 304**Three Credits****MORTALITY (SI)**

Discussion of the components of mortality (life span and longevity). Examination of the causes of death and mortality differentials by gender, occupation, income/education, race/ethnicity, marital status, and urban/rural areas. Emphasis on infant mortality in developing societies and among the urban poor of industrialized societies.

SOC 325**Three Credits****SOCIOLOGY OF BUSINESS AND****INTERNATIONALISM (FS)**

Study of the relationship between businesses and society, which involves multicultural and international approaches and takes into account the impact of changes in society, business practices and technology on societal structure. Special emphasis on the roles of industrial revolution, modern technology and information science. Analysis of the current international environment, the interconnectedness of businesses, societies and economic processes. Examination of the effect of business practices on environmental problems and possible solutions. Discussion of the ethical issues and business practices that contribute to the development of societies and people's lives.

SOC 326**Three Credits****NATIVE AMERICAN SOCIETIES (SI)**

A sociological survey of Native American societies across what is now the United States of America, in this land mass, from pre-Columbian times through the present. Cultures of nations and important events will be examined in order to illustrate broad social and historical dynamics and how those dynamics inform contemporary position and treatment of Native Americans. This course will also explore the impact of Native American on U.S. politics, law and culture, as well as the impact of the U.S. on indigenous nations.

SOC 331**Three Credits****SOCIAL PSYCHOLOGY (FS)**

Examination of human social behavior at the individual and interpersonal level. Discussion of socialization, power, attitude formation and change, conformity, and language to provide an understanding of how persons are influenced by interaction with other persons as members of social groups. The focus is primarily basic social science, emphasizing major theoretical ideas and research findings. Applications to everyday life are also considered.

SOC 338**Three Credits****SOCIOLOGY OF FAMILIES (SO) (SS)**

PREREQUISITE: SOC 110 or Consent of Instructor

Study of the family and its function among primitive peoples; the different types of family organizations; history of marriage and divorce in Europe and the United States; changing idea of family life; the functions of the family in the modern world; and contemporary problems.

SOC 344**Three Credits****METHODS OF SOCIAL RESEARCH (E)**

PREREQUISITE: SOC 225

This course introduces students to the basic principles and procedures involved in social science research. The major purpose is to assist students in becoming competent consumers of research. Thus, emphasis is placed on understanding the research process, noting the reasons for particular procedures and the errors and limitations inherent in any research project. Topics covered include the scientific method, conceptualization, formulation of hypotheses, research design, analysis and interpretation of research findings, theoretical basis of research, application and evaluation of research, and the nature of science. Students participate in research projects and prepare reports.

SOC 355**Three Credits****SOCIAL STATISTICS (E)**

This course introduces students to the basic tools of statistics and shows how these statistical tools are used in the social science research. It covers both descriptive statistics and inferential statistics. In addition, this course will introduce students to data analyses and data visualization methods in Excel, SPSS, SAS, R and other statistical packages.

SOC 326**Three Credits****NATIVE AMERICAN SOCIETIES (SI)**

A sociological survey of Native American societies across what is now the United States of America, in this land mass, from pre-Columbian times through the present. Cultures of nations and important events will be examined in order to illustrate broad social and historical dynamics and how those dynamics inform contemporary position and treatment of Native Americans. This course will also explore the impact of Native American on U.S. politics, law and culture, as well as the impact of the U.S. on indigenous nations.

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SOC 355**Three Credits****ELEMENTARY SOCIAL STATISTICS (E)**

Introduction to the parametric and nonparametric techniques of summarizing data, including measures of central tendency and dispersion, measures of association, correlation and regression, and statistical inference. Emphasis on mastering skills needed to apply statistics rather than on theoretic concerns.

SOC 356**Three Credits****INTERMEDIATE SOCIAL STATISTICS (SI)**

PREREQUISITE: SOC 355

Study of the solid statistical foundations necessary to develop competence in the analysis and interpretation of sociological data. It assumes knowledge of basic statistical principles, including measures of central tendency, measures of dispersion and normal curve probability distribution. Emphasis on hypothesis testing, logic, application, and interpretation of test statistics. Graphic and tabular presentation of data are highlighted. Parametric and nonparametric tests of significance and tests of association are discussed. Special attention is given to regression analysis, with emphasis placed on the derivation and interpretation of coefficients. Extensive use is made of statistical packages, thereby enabling the student to explore complex survey and demographic (Census) data.

SOC 393**Six Credits****INTERNSHIP (E)**

COREQUISITE: SOC 394

Various duties in agencies and organizations active in the fields of gerontology, urban affairs, and criminal justice. An agency supervisor and the internship supervisor direct each student in mastering relevant skills to complete the tasks associated with a significant position in the internship agency.

SOC 401**Three Credits****DEMOGRAPHIC METHODS II (SI)**

PREREQUISITE: SOC 301

More in-depth treatment of demographic measures, using demographic computer software. Population estimates and projections for small and large areas are undertaken.

SOC 402**Three Credits****FAMILY DEMOGRAPHY (SI)**

Examination of demographic views on nuptial patterns, fertility, marital formation, marital dissolution, family planning, and household formation. Emphasis on demographic factors facilitating male domination of women in the family. Related social issues of pertinence include female labor force participation, teenage motherhood, illegitimacy, female-headed households, and cohabitation. Focus on life-cycle changes.

SOC 403**Three Credits****POPULATION GROWTH, FOOD AND****THE ENVIRONMENT (SI)**

Survey of the interrelationships within the environment, which examines the pattern of food production in the world, starting from the Agricultural Revolution to the Green Revolution, and looks closely at the relationship growth. Answers are sought to the often-asked question: Will there be enough food to feed the world's growing population? Emphasis on the harmful effects on the environment of attempting to increase agricultural yield.

SOC 404 **Three Credits**

POPULATION & SOCIOECONOMIC DEVELOPMENT (SI)

Study of the relationship between population growth and socioeconomic change, especially in regard to the developing societies of Africa, Latin America, and South- East Asia. Examination of the debate as to whether population growth is stimulative or retardative to economic development. Assessment of cross-cultural data on population growth and development indicators. Utilization of country case studies.

SOC 405 **Three Credits**

READINGS IN URBAN/ DEMOGRAPHY

PREREQUISITE: Approval of the Faculty in Sociology

Intensive directed reading course for exceptionally able.

SOC 406 **Three Credits**

TOPICS IN URBAN/DEMOGRAPHY (SI)

PREREQUISITE: Senior Standing and Consent of Instructor

Examination of trends and emerging issues in the field of urban/ demography.

SOC 446 **Three Credits**

SOCIOLOGICAL THEORY (FS)

PREREQUISITE: Junior or Senior Standing

Survey and analysis of the main types of sociological theories and of the major theoretical concepts in Sociology. Special emphasis on outstanding theorists, past and present, and their works.

SOC 458 **Three Credits**

SOCIAL STRATIFICATION (FO) (O)

Evaluation of the pervasive phenomenon of social inequality in society. Discussion of the various theoretical explanations offered by Karl Marx and other social scientists. Exploration of some of the current and classic research findings. Description of the different kinds of inequality and social structural forms that occur. Examination of the international and American stratification systems is included.

SOC 462 **Three Credits**

COMPLEX ORGANIZATIONS (SO) (SS)

Survey of the evolution and dynamics of bureaucratic organization and administration. Analysis of classical writings and findings from empirical research to provide students with broad perspectives of the structure and functions of organizations in a complex industrial urban society. Special emphasis on unique characteristics of different kinds of organizations. Study of alternative techniques for the assessment of the effectiveness of complex organizations.

SOC 485 **Three Credits**

SEMINAR IN SOCIOLOGY (SI)

PREREQUISITE: Junior or Senior Standing and Consent of Instructor

Review and evaluation of major concepts, literature, and methodology of social research.

SOC 491 **Three Credits**

READINGS IN SOCIOLOGY (SI)

PREREQUISITE: Approval of the Faculty in Sociology

Intensive directed reading course for exceptionally able students.

SOC 495 **Three Credits**

TOPICS IN SOCIOLOGY (SI)

PREREQUISITE: Senior Standing and Consent of Instructor

Examination of trends and emerging issues in a dynamic social world.

SOC 499 **Three Credits**

APPLIED SOCIOLOGY (FS)

PREREQUISITE: Senior Standing; SOC 344 and 355

Empirical investigation of a research problem under direction of the chairman of the Department.

SPANISH (SPN)

SPN 111 **Three Credits**

ELEMENTARY SPANISH I (E)

Introduction to the fundamentals of pronunciation, grammar, structure, vocabulary, conversation, and reading.

SPN 112 **Three Credits**

ELEMENTARY SPANISH II (E)

PREREQUISITE: SPN 111 or Equivalent

Continuation of the fundamentals of pronunciation, grammar, structure, vocabulary, conversation, and reading.

SPN 113 **Three Credits**

BASIC CONVERSATION I (SI)

Emphasis on acquiring conversational skill with minimal involvement with formal study of grammar for those students who have had no previous training in Spanish.

SPN 114 **Three Credits**

BASIC CONVERSATION II (SI)

PREREQUISITE: SPN 113 or Permission

Emphasis on acquiring conversational skill with minimal involvement with formal study of grammar for those students who have had no previous training in Spanish.

SPN 211 **Three Credits**

INTERMEDIATE SPANISH I (EE)

PREREQUISITE: SPN 112 or Equivalent

Review of grammar, reading of moderately difficult prose, oral practice, and written composition.

SPN 212 **Three Credits**
INTERMEDIATE SPANISH II (EE)
 PREREQUISITE: SPN 211 or Equivalent

Intensive and extensive study and reading of modern prose, oral practice, and composition.

SPN 214 **Three Credits**
ENTREPRENEURIAL SPANISH (SI)
 PREREQUISITE: SPN 112

Study of the concepts of Spanish business language and culture to prepare students to be competitive in an increasingly global marketplace.

SPN 215 **Three Credits**
INTERMEDIATE CONVERSATION (SI)
 PREREQUISITE: SPN 212 or Equivalent

Study of oral practice in everyday situations. Special stress on idiomatic expressions and on fluency. Conducted largely in Spanish.

SPN 216 **Three Credits**
EXPLICATION DE TEXTOS (SI)
 PREREQUISITE: SPN 215 or Equivalent

Transitional course designed to prepare students for the study of advanced texts from the literary and linguistic points of view.

SPN 220 **Three Credits**
SPANISH CIVILIZATION (SI)
 PREREQUISITE: SPN 212 or Equivalent

Survey of the most important elements of Spanish-civilization, geography, economy, political history, arts, sciences, and institutions. Conducted in Spanish.

SPN 221 **Three Credits**
LATIN AMERICAN CIVILIZATION I (SI)
 PREREQUISITE: SPN 215 or Equivalent

Similar in scope and content to SPN 220. Aims to acquaint the student with the essential aspects of the geography, history and culture of Latin America. Conducted in Spanish.

SPN 315 **Three Credits**
ADVANCED CONVERSATION (SI)
 PREREQUISITE: SPN 215 or Permission of the Instructor

Intensive and extensive practices in the oral use of Spanish. Conducted in Spanish.

SPN 320 **Three Credits**
LATIN AMERICAN CIVILIZATION II (SI)
 PREREQUISITE: SPN 215 or Permission of the Instructor

Survey of the most important elements of contemporary Latin American culture. Conducted in Spanish.

SPN 321 **Three Credits**
SURVEY OF SPANISH LITERATURE I (SI)

SPN 321 **Three Credits**
SURVEY OF SPANISH LITERATURE I (SI)
 PREREQUISITE: SPN 216 or Equivalent

Study of representative works of Spanish literature from the beginning to the end of the 17th century. Conducted in Spanish.

SPN 322 **Three Credits**
SURVEY OF SPANISH LITERATURE II (SI)
 PREREQUISITE: SPN 216 or Equivalent

Study of representative works of Spanish literature from the beginning of the 18th century to the middle of the 20th century. All literature courses beyond this level are conducted in Spanish.

SPN 324 **Three Credits**
SPANISH AMERICAN LITERATURE (SI)
 PREREQUISITE: SPN 216 or Equivalent

Comprehensive study of the main currents of Spanish-American literature from its origins to the contemporary period. Lectures, discussions, and assigned reports are required.

SPN 326 **Three Credits**
NON-DRAMATIC LITERATURE OF THE GOLDEN AGE (SI)
 PREREQUISITE: SPN 321

Critical study of the poetic, novelistic, and didactic styles of the period 1550-1650, exclusive of the works of Cervantes.

SPN 332 **Three Credits**
LITERATURE OF THE 19TH CENTURY (SI)
 PREREQUISITE: SPN 322

Includes Romanticism in poetry and drama, Costumbrismo, the regional novel, and the beginning of the modern theatre. Analysis of texts and literary theories in class discussion.

SPN 333 **Three Credits**
LITERATURE OF THE 20TH CENTURY (SI)
 PREREQUISITE: SPN 322

Studies the works of significant writers in Spain and Spanish America of the contemporary period. Discussions, reports, and lectures in Spanish and English.

SPN 340 **Three Credits**
DRAMA OF THE GOLDEN AGE (SI)
 PREREQUISITE: SPN 321

Investigation of the rise of drama and intensive study of representative drama of Lope de Vega, Tirso de Molina, Alarcon, Moreto, and Calderon.

SPN 350 **Three Credits**
CERVANTES (SI) PREREQUISITE: SPN 321

Study of Cervantes as dramatist and novelist. Includes study of Don Quixote and of Cervantes' purpose and plans in the presentation.

SPN 412 **Three Credits**
LANGUAGE FOR PROFESSIONALS
PREREQUISITE: SPN 315 or Permission of the Instructor

Intensive and extensive practice in the language of technical, vocational, and professional areas. All-four language skills (comprehension, speaking, reading, and writing) are stressed. Special emphasis upon the student's secondary area of concentration.

SPN 413 **Three Credits**
INDIVIDUALIZED LANGUAGE FOR PROFESSIONALS (SI)
PREREQUISITE: SPN 315 or Permission of the Instructor.

Intensive practice in the language of technical, vocational or professional area.

SPN 450 **Two Credits**
PHONETICS (SI)
PREREQUISITE: SPN 215 or Equivalent

Analysis of the phonetic features of Spanish. Systematic exercises in pronunciation, intonation, and reading of prose and poetry.

SPN 454 **Three Credits**
ADVANCED GRAMMAR AND COMPOSITION (SI)
PREREQUISITE: SPN 215 or Equivalent

Intensive review and application of Spanish grammar. Intensive practice in writing and study of vocabulary and idioms.

SPN 485 **Two Credits**
CONTRASTIVE LINGUISTICS: SPANISH-ENGLISH (SI)
PREREQUISITE: SPN 215 or Equivalent

Introduction to the study of the principal phonological, morphological, syntactical, and lexical contrasts between Spanish and English. No previous work in linguistics is required.

SPN 490 **Three Credits**
SENIOR SEMINAR (SI)
PREREQUISITE: Departmental Permission

Intensive readings and oral and written reports required. Student will complete a senior thesis, that is, do independent research on a topic selected by the student, approved by the student's department and advisor, and completed under the guidance of that advisor.

SPECIAL EDUCATION (SPE)

SPE 210 **Three Credits**
AMERICAN SCHOOLS AND THE TEACHING PROFESSION (E)

Orientation to contemporary elementary and secondary schools in America with on-site experiences in diverse classrooms. Emphasis on educating exceptional learners about the changing nature of the teaching profession.

SPE 213 **Three Credits**
CRITICAL THINKING AND ASSESSMENT SKILLS (E)

Development of test taking skills on standardized examinations of education majors. Emphasis on reading, writing, mathematics, and critical thinking skills.

SPE 311 **One Credit**
PRINCIPLES AND PRACTICES IN MULTICULTURAL EDUCATION (SO)

Introduction to cultural differences among children, youth and adults in a pluralistic society. Opportunity to study and to critically examine differences related to institutional racism, classism, sexism, ageism, and homophobia. Examination of historical and contemporary perspectives of the multicultural competencies required for a teacher to function successfully in today's pluralistic society.

SPE 312 **Three Credits**
EDUCATIONAL PSYCHOLOGY AND BEHAVIOR MANAGEMENT (FO)

Study of basic concepts of behavioral conditioning principles and management of behavior in the classroom. Emphasis on practical applications of learning theories to the teaching, learning situation for individuals in home, school, and community environments. (a twenty- hour clinical experience required).

SPE 321 **Three Credits**
CHARACTERISTIC, MEDICAL AND LEGAL ASPECTS IN SPECIAL EDUCATION (FO)

Study of the medical/biological and environmental etiologies of disabling conditions that can occur prenatally, perinatally, and post-natally. Emphasis on preventive, diagnostic, and prescriptive/ treatment procedures and the impact of etiologies on learning potential. (a twenty- hour clinical experience required).

SPE 332 **Three Credits**
CURRICULUM AND INSTRUCTIONAL PROCEDURES IN TEACHING STUDENTS WITH MILD DISABILITIES (EE)

Skills in this area shall contribute to an understanding of the principles of learning; selection and use of materials, evaluating pupil performance, and teaching methods appropriate for exceptional students, including gifted and talented and those with disabling conditions.

SPE 334 **Three Credits**
UNDERSTANDING AND TEACHING LEARNERS WITH EMOTIONAL DISTURBANCE (SO)

Experience in the field of emotional disturbance, including historical and theoretical perspectives, definitions and characteristics, legal and ethical considerations, assessment procedures, program planning, and implementation of instruction for expanding the academic performance of individuals with emotional disturbance. Learning experiences focus on multicultural influences, emotional adjustment, and social development. (a twenty- hour clinical experience required).

SPE 336 **Three Credits**
UNDERSTANDING AND TEACHING STUDENTS WITH LEARNING DISABILITIES (FO)

Experience in the field of learning disabilities, including historical and theoretical perspectives, definitions and characteristics, related effects, legal and ethical considerations, assessment procedures, program planning, and implementation of instruction for expanding literacy and subject area performance. Learning experiences focus on teaching linguistically and culturally diverse individuals with learning disabilities.

SPE 344 **Three Credits**
TEACHING READING TO EXCEPTIONAL LEARNERS (SO)

SPECIAL EDUCATION (SPE)

SPE 210 Three Credits

AMERICAN SCHOOLS AND THE TEACHING PROFESSION (E)

Orientation to contemporary elementary and secondary schools in America with on-site experiences in diverse classrooms. Emphasis on educating exceptional learners about the changing nature of the teaching profession.

SPE 213 Three Credits

CRITICAL THINKING AND ASSESSMENT SKILLS (E)

Development of test taking skills on standardized examinations of education majors. Emphasis on reading, writing, mathematics, and critical thinking skills.

SPE 311 One Credit

PRINCIPLES AND PRACTICES IN MULTICULTURAL EDUCATION (SO)

Introduction to cultural differences among children, youth and adults in a pluralistic society. Opportunity to study and to critically examine differences related to institutional racism, classism, sexism, ageism, and homophobia. Examination of historical and contemporary perspectives of the multicultural competencies required for a teacher to function successfully in today's pluralistic society.

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SPE 344 Three Credits

TEACHING READING TO EXCEPTIONAL LEARNERS (SO)

Study of comprehensive active learning designed to provide a foundation in literacy instruction and content area reading. Emphases on language acquisition and the interrelated nature of reading, writing, speaking, listening, and thinking to promote the exceptional learner's use and understanding of language. Field experiences facilitate student mastery of developing a balanced reading program.

SPE 410 Three Credits

INTRODUCTION TO EXCEPTIONAL INDIVIDUALS (EE)

This course provides an overview of the foundation for educating individuals with disabilities and special gifts. It includes philosophical perspectives, Developmental differences, and cultural influences as they relate to individuals in their home, school, and community. A twenty-hour clinical experience is required.

SPE 440 Three Credits

CASE MANAGEMENT & COLLABORATION PROCEDURES (EE)

This course is designed to increase the competence of teachers in meeting the educational needs of exceptional learners. The course focuses on current procedures for accommodating variance in academic needs and abilities through cooperation with professionals from a variety of disciplines and agencies.

SPE 445**Three Credits****TRANSITIONS (EE)**

This course is designed to provide pre-service special educators with skills and competencies in the planning and implementation of transition services for students with disabilities. The course will focus on strength-based approaches for planning and implementing transition services in accordance with the individuals with Disabilities Education Act, the Virginia Licensure REgulations for School Personnel and the Council for the Accreditation of Education Preparation (CAEP) Standards and Assessments.

SPE 451**Three Credits****PSYCHOEDUCATIONAL DIAGNOSTIC PROCEDURES (SO)**

Study of a foundation for understanding the psycho educational diagnostic process and the skills necessary for conducting meaningful assessments. Emphasis on the testing domains of intelligence, language, perception, academics, overt behavior, affective competence, and vocational assessment. Educational experiences focus on teaching linguistically and culturally diverse learners. (Twenty-hour clinical experience required).

SPE 461**Three Credits****TEACHING SIGN LANGUAGE (SO)**

Introduction to American Sign Language (ASL) and its application within the deaf community. Emphasis on developing receptive and expressive skills for everyday interaction, or effective communication, with deaf/hard of hearing individuals and other nonverbal persons with severe disabilities.

SPE 490**Three Credits****ASSESSMENT OF EXCEPTIONAL STUDENTS (SO)**

Introduction to components and procedures for educational assessment of exceptional learners. Emphasis on purpose, history, terminology, and basic educational/evaluation concepts. Orientation to formal and informal instruments for measurement and evaluation. (twenty- hour clinical experience required).

SPE 499**Six Credits****DIRECTED TEACHING (EE)**

This course is designed to provide a period of supervised teaching during which the candidate takes increasing responsibility for a given group of individuals with mild disabilities for a definite period of time. It is organized on a semester basis with emphasis on elementary, middle, or secondary school experiences to be supplemented with a professional seminar, and other ancillary educational opportunities. The candidate will assess students, plan and write instructional interventions, deliver instruction, monitor and document progress, and assume all other classroom duties of the cooperating teacher. Placements will provide candidates with opportunities to interact with individuals from diverse populations.

SPEECH COMMUNICATION (SCM)**SCM 310****Three Credits****SPEECH FOR THE CLASSROOM TEACHER (SI)**

Study of methods to effectively promote an environment for effective oral communication in the classroom, including applied speech, speech improvement, and speech rehabilitation. Special unit on phonetics and phonics provides opportunities for recording and evaluating speech and voice patterns.

SCM 340**Three Credits****GROUP COMMUNICATION (FO)**

Study of the processes of communication in small groups. Examination of theories concerning influence of leadership; group structure; and norms and roles in collaborative decision-making, participation in group discussions, and individual research.

SCM 346**Three Credits****ORAL INTERPRETATION OF LITERATURE (SI)**

Analysis and presentation of prose, drama, and poetry. Emphasis on discovering and interpreting the elements of oral communication. The fine art of reading literature to an audience.

SCM 350**Three Credits****VOICE AND DICTION (EE)**

Study of the fundamental speech processes of voice and articulation, with emphasis on refinement of students' speech patterns through small group drill sessions.

SCM 351**Three Credits****COMMUNICATION THEORY (FO)**

Overview of the models of communication based on perception theory, learning theory, sociopsychological models, cybernetics, and attitude change theories.

SCM 380**Three Credits****WOMEN IN ORATORY**

Study of the roles of women who have made impacts on modern times through their public addresses or oratory in such areas as education, politics and social action, and the arts.

SCM 390**Three Credits****ORAL BUSINESS COMMUNICATION (SI)**

Specialized training in speech communication in a business orientation. Study of basic speech fundamentals with focus on interview techniques. Examination of differentiation between the conference, impromptu session and formal meeting, and parliamentary procedure.

SCM 400 **Three Credits**
CONTEMPORARY ISSUES IN INTERPERSONAL RELATIONS

Examination of the principles of interpersonal communication. Study of theory, skills, and transactional approach to communication.

SCM 410/ COM 510 **Three Credits**
COOPERATIVE ARGUMENTATION AND DECISION MAKING (SI)

PREREQUISITE: ENG 285 or Graduate standing

Exploration of systematic strategies which increase abilities to react critically and to form arguments. Emphasis on the roles arguments play in the fields of business, education, ethics, the arts, politics and life in general.

SCM 411/COM 511 **Three Credits**
INTERPERSONAL COMMUNICATION (SO)

PREREQUISITE: ENG 203 or Graduate Standing

Introduction to substantive material in contemporary communication theory, group dynamics, language and thought, and culture patterns of verbal and nonverbal communication. Development of skills in interpersonal communication.

SCM 420 **Three Credits**
HISTORY AND PHILOSOPHY OF SPEECH (SI)

PREREQUISITE: ENG 285

Identification and analysis of substantive and methodological issues in the field of speech with special emphasis on rhetoric and communications. Reading and guest lecturers in history and philosophy of rhetorical theory, rhetorical criticism, group discussion, oral interpretation, and speech and hearing.

SCM 440 **Two/Three Credits**
SEMINAR IN CONTEMPORARY ORATORS (SI)

Study of contemporary great orators, including an anthology of contemporary writings and messages with emphasis on techniques and styles in relation to social and psychological influences.

SCM 485 /COM 585 **Three Credits**
FAMILY COMMUNICATION

PREREQUISITE: ENG 285 or Graduate standing

Examination of family and relational communication through a system approach to family/relational roles, rules, and membership. Emphasis on the family in today's world as its communication relates to self-disclosure, power conflicts, and stress.

SWAHILI (SWA)

SWA 111 **Three Credits**
ELEMENTARY SWAHILI I (SI)

Study of pronunciation, grammar, structure, vocabulary, and conversation in Swahili. Introduction to Swahili culture and reading material.

SWA 112 **Three Credits**
ELEMENTARY SWAHILI II (SI)

PREREQUISITE: SWA 111 or Equivalent.

Emphasis on reading, writing, and speaking Swahili. Continued study of grammar and vocabulary, incorporating culture and lifestyle of Swahili people.

SWA 211 **Three Credits**
INTERMEDIATE SWAHILI II (SI)

PREREQUISITE: SWA 112 or Equivalent.

Course taught mainly in Swahili. Emphasis on grammar, reading and discussion of moderately difficult prose, oral practice, and composition.

SWA 212 **Three Credits**
INTERMEDIATE SWAHILI II (SI)

PREREQUISITE: SWA 211 or Equivalent.

Intensive and extensive study and reading of modern Swahili prose, oral practice, and composition.

TOURISM and HOSPITALITY MANAGEMENT (THM)

THM 100 **Three Credits**
PROFESSIONAL CAREERS IN THE HOSPITALITY INDUSTRY (FO)

This first course in professional development will provide in-depth discussion and experience in professional development within the hospitality industry. It will prepare students with the knowledge of professionalism, business etiquette, self-awareness skills and career planning of goals and objectives. It will provide information for their career, for their resumes, interviewing skills, and networking communications. Basic restaurant math and financial operations information will be demonstrated.

THM 115 **Three Credits**
INTRODUCTION TO TOURISM & HOSPITALITY (FO)

Overview of various facets of the industry's restaurants, hotels, resorts, travel, tourism, and clubs. Emphasis on general operating procedures and professional management principles with the inclusion of career planning and exposure to role models. Field trips and hospitality executive guest lecturers required.

THM 150 **Three Credits**
TOURISM PRINCIPLES (O)

Study of cultural tourism, sociology of tourism, components and supply, tourism development, economic role of tourism demand, the marketing of tourism, and the international scope of tourism.

THM 200 **Three Credits**
COMPUTERS IN HOSPITALITY (SI)

Study of computer applications used in the hospitality industry. Emphasis on the different software packages available and the programs they run.

THM 205 **Three Credits**
SANITATION PRINCIPLES (SO)

Study of sanitation standards for food and beverage establishments, food-handling practices, and microorganisms and their control.

THM 210 **Three Credits**
FRONT OFFICE MANAGEMENT (FO)

Study of principles and procedures used in effective hotel/motel front office management. Emphasis on operation of specific equipment, planning and forecasting hospitality needs.

THM 212 **Three Credits**
FUNDAMENTALS OF NUTRITION FOR FOOD SERVICE

This course introduces the student to the concepts of food composition, nutrition science, and application of nutrition principles by the food service professional. It provides the student with a basic understanding of human nutrition and application of nutrition in the service of commercially prepared meals.

THM 220, 220L **One /Two Credits**
**INTRODUCTION TO FOOD PREPARATION/
LABORATORY (SI)**

Introduction to commercial food preparation, nutrition, standard product identification, and storage which includes classroom instruction, demonstrations, and actual cooking experience. Emphasis on explanations of techniques and procedures of quality/quantity food production.

THM 230 **Three Credits**
HOSPITALITY ACCOUNTING I (SI)

Study of the management aspects of accounting and financial statement analysis as they relate to hospitality operations which begins with an introduction to the Generally Accepted Accounting Principles and explains the system of double-entry accounting. Emphasis on understanding analysis and interpretation of financial statements, ratio analysis, internal control, pricing and cost management.

THM 240 **Three Credits**
INTRODUCTION TO GAMING

Overview of gaming; topics include the economics of the gaming industry, its interface with the hotel, organizations and terminology.

THM 242 **Three Credits**
THE TRAVEL AGENCY

Examination of the services and functions of retail and wholesale travel agencies, including agency administration, procedures, ticketing, accounting, promotion, and travel counseling.

THM 250 **Three Credits**
HOTEL OPERATIONS MANAGEMENT

Provides and up-to-date and comprehensive examinations of all aspects of hotel administration from the viewpoint of the hotel general manager. Detailed information addresses the operating departments of a full-service hotel: Human Resources; Controller; The Front Office; Housekeeping; Food and Beverage; Safety and Property Security; Sales and Marketing; Accounting; and Facility Engineering and Maintenance.

THM 280 **Three Credits**
**DINING ROOM AND BEVERAGE
MANAGEMENT OPERATIONS (SO)**

Introduction to the dining room and beverage service operation found in the Hospitality Industry. Elements of showmanship and techniques for promoting sound guest relations are stressed. Experience in working on campus and off, in addition to attending regular classes.

THM 300 **Three Credits**
PURCHASING FOR THE HOSPITALITY INDUSTRY

Exploration of the procedures and practices utilized in purchasing items and services for the hospitality industry. Emphasis on the procurement cycle, legal aspects of purchasing, standards and specifications of items, sources of supplies, and distribution systems.

THM 310 **Two Credits**
PROFESSIONAL DEVELOPMENT (SO)

Introduction to aspects of the hospitality industry and related areas that are not available in regularly scheduled courses.

THM 320 **Three Credits**
CASES ON HOSPITALITY MANAGEMENT

Introduction to strategic management concepts and applications in the hospitality industry. This course is designed to introduce the student to setting up, starting, and running a hospitality or hospitality-related type of business. In addition, the student receives intensive training in the use of the Case Method for decision-making and strategic management in the hospitality industry. This will be accomplished via a combination of cases, simulations, gaming, internships, and/or other pragmatic exercises.

THM 330 **Three Credits**
HOSPITALITY ACCOUNTING II (SI)

PREREQUISITE: HRM 230

Examination of various approaches to managerial accounting from the perspective of hospitality operations. Emphasis on the cost-volume-profit approach to decision-making, use and source of working capital, cash-flow analysis, investment decision-making, and market, as well as financial feasibility studies.

THM 331 **Three Credits**
FOOD, BEVERAGE, AND LABOR COST CONTROL (SO)

Fundamentals of food, beverage, and labor cost control for hotel and restaurant operations.

THM 340 **Three Credits**
TRAVEL AND TOURISM MARKETING

Study of marketing principles and practices used to meet the needs of the hospitality industry. Emphasis on the role of marketing, the role of advertising and promotion in the hospitality, and effective use of marketing strategies in the hospitality industry.

THM 342 **Three Credits**
THE RECREATION INDUSTRY (SI)

Study of leisure and the recreation industry, their interrelationships to American lifestyles, and their implications for the hospitality industry.

THM 351 **Three Credits**
EVENT PLANNING AND MANAGEMENT

Emphasis on organizing, arranging, and operating conventions, trade shows, and concessions. Examination of methods of sales used in booking conventions and trade shows, and division of administrative responsibility in their operation.

THM 359, 359L **One /Two Credits**
COMMERCIAL FOOD PRODUCTION/LABORATORY (FO)

PREREQUISITES: HRM 220, 220L

THM 359, 359L**One /Two Credits****COMMERCIAL FOOD PRODUCTION/LABORATORY (FO)**

PREREQUISITES: HRM 220, 220L

Principles and practices of large quantity food preparation and service. Topics include Principles and Practices of Large Quantity Food Preparation and Services, Production, Efficient Work Methods, Quality Control, Safety, and Sanitary Food Handling. Laboratory food experiences included.

THM 361**Three Credits****TRAINING FOR THE HOSPITALITY ORGANIZATION**

Overview of the key principles of employee training, management training and development, and pre-opening training. Development of a training plan for a hospitality facility.

THM 381**Three Credits****FACILITIES LAYOUT AND DESIGN (O)**

Study of hospitality facilities, layouts, and designs, exterior and interior; building systems; space allocations; equipment; and budgets.

THM 382**Three Credits****INCENTIVE TRAVEL**

Study of the use of travel as an incentive to help meet marketing objectives, including the organization and marketing of transportation, hotels, restaurants, tour and ground operators, destination, and other creative services.

THM 387**Three Credits****FAIR AND AMUSEMENT PARK ADMINISTRATION**

Focus on the management and marketing of fairs and amusement parks, including crowd control, concessions, security and contract negotiations.

THM 391**Three Credits****INTERNSHIP IN HOSPITALITY**

On-the-job experience at a hospitality industry employer. Minimum of 250 clock hours required.

THM 400**Three Credits****RESTAURANT MANAGEMENT (O)**

Theories and principles of organization and administration, the tools of managerial decision-making, and the management process, with particular reference to the hospitality industry.

THM 401**Three Credits****CLUB AND RESORT MANAGEMENT**

Survey of the organization and management of member-owned and proprietary private clubs and resorts. Study of relationship between board of directors, management, employees, club committees, and club members. Emphasis on budget preparation, including applicable tax laws. Field trips required.

THM 402**Three Credits****MANAGEMENT BY MENU**

Principles of menu planning applied to the food services industry, including the menu and financial success, the menu and marketing, measuring menu effectiveness, menu writing procedures, and menu analysis and feasibility. Principles of table service for all types of food services.

THM 403**Three Credits****CATERING MANAGEMENT**

This course will offer an overview of food service catering in an on and off premise environment.

THM 440**Three Credits****HOSPITALITY SALES AND ADVERTISING (O)**

Study of hospitality sales and advertising with emphasis on practical sales techniques, proven approaches to selling to targeted markets, and advertising's role in sales.

THM 441**Three Credits****RESTAURANT OWNERSHIP AND OPERATION**

Exploration of the factors necessary for the successful start-up or take-over of a restaurant. Procedures are set forth for determining the entrepreneur's suitability (personal characteristics) as well as the market and financial feasibility of the project. Emphasis on concept development, seating, construction, menu, design, equipment, staffing and management necessary to maximize the chances for success.

THM 448**Three Credits****CRUISE SHIP ADMINISTRATION**

In-depth discussion of the growth, direction, organization, structure and marketing concepts relating to the cruise industry. Reference of all aspects of the cruise industry, including philosophy, management, staffing, operations and marketing strategies.

THM 449**Three Credits****INTERNATIONAL TOURISM**

Study of international travel and tourism. Focus on the economic, social, political, and environmental considerations of international tourism management and development.

THM 462**Three Credits****HOSPITALITY HUMAN RESOURCE MANAGEMENT (SI)**

Study of the relationship between individual employees and the hospitality industry. Analysis of human behavior, attitudes, motivation strategies, stress management, employee wages, and productivity.

THM 466**Three Credits****MULTI-CULTURAL MANAGEMENT IN THE HOSPITALITY INDUSTRY**

Analysis of the interaction of persons and groups of various ethnic backgrounds within the work environment. Review of management to develop awareness and acceptance of the differences within the work force and to provide motivation and understanding of various needs.

THM 471**Three Credits****HOSPITALITY INDUSTRY LAW (SI)**

Introduction to fundamental laws and regulations applied to the hospitality industry. The case-study approach is used to develop awareness and understanding of the legal problems confronting the executive in his/her policy and decision-making role.

THM 481**Three Credits****HOSPITALITY PROPERTY MANAGEMENT**

Study of the problems of cost and operation of pest control, security, parking, general cleaning and upkeep, laundry, fire prevention, pools, tennis courts, and care of guest rooms and public space, with emphasis on equipment, personnel, and modern innovations.

THM 490**Three Credits****SENIOR PROJECT (SO)**

THM 490 **Three Credits**

SENIOR PROJECT (SO)

PREREQUISITES: HRM 391, HRM 391L

Emphasis on providing the student with the opportunity to engage in a research project designed to showcase competence and developed managerial knowledge.

THM 494 **Three Credits**

HOSPITALITY FRANCHISING

Emphasis on the unique difference between franchise and company-owned properties and the application of special techniques required to manage these differences.

URBAN PLANNING (URP)

URP 192 **Three Credits**

INTRODUCTION TO URBAN PLANNING (SO)

Study of the role of planning in the development, management, and organization of metropolitan environments. Comprehensive analysis of the overall planning process and how master plans can guide the growth/development of cities and cities' hinterlands.

URP 201 **Three Credits**

PLANNING THEORY (SI)

Presentation of theories of urban planning and an in-depth analysis of various academic and professional planning viewpoints of planning theory. Discussion of transitional periods in the evolutionary process of urban phenomena.

URP 285 **Three Credits**

URBAN LAND USE PLANNING (SI)

Study of the management and the use of land in primarily urban centers, including an analysis of the evolution, legislative support, scope and nature of land use planning and management. Emphasis is placed on the evaluation and discussion of various development projects and the public's role in influencing land use development decisions.

URP 292 **Three Credits**

PLANNING LAW (FO)

Survey of law cases, legislation, and terminology relevant to urban planning issues. Exploration of the social, economic, and environmental interrelationships of the real estate development industry, local government, and the public. Emphasis is placed on the dynamic role of law in planning processes and procedures.

URP 301 **Three Credits**

REGIONAL PLANNING AND THE ENVIRONMENTS (SI)

Study of an evolutionary perspective of regional planning on a metropolitan, national, and international level. Emphasis is placed on discussions relative to population, resource distribution, and economic issues. Examination of the patterns of growth and under-development in the context of regions and cities, including the environmental impacts of urban projects and the public/private sector roles and responsibilities in guiding regional economic and social growth.

URP 315 **Three Credits**

URBAN TRANSPORTATION (SI)

Analysis of the role of transportation and transportation systems in the movement of people, goods, and services. Emphasis is placed on transportation as an integral and vital component of the overall planning process and as the umbilical cord for the economic growth and stability of the community, metropolis, and nation.

URP 335 **Three Credits**

PLANNING DESIGN, TECHNIQUES AND CONCEPTS (SI)

Overview of the history and process of urban design. Focus is placed on the environmental movement and the concerns about environmental quality, historic preservation, and the design/development of residential, downtown, and shopping areas; and the effect of citizen/community participation in the urban design process.

URP 355 **Three Credits**

URBAN ECONOMIC DEVELOPMENT PLANNING (SI)

Study of the economic vitality of established central cities in conjunction with regions within metropolitan areas. Primary emphasis is placed on the internal structure of urban areas, including the dynamics of central city economics. There is an analysis of the dependence of residents upon unstable private capital decisions within a city or region, and the deleterious effects which capital migration has upon the quality of life in the central city and its environs.

URP 365 **Three Credits**

HUMAN SERVICES PLANNING AND EVALUATION (SI)

Study of the multi-disciplinary nature of planning and the evaluation of human services, including such elements as social services, physical and mental health care, housing, substance abuse programs, ; informational services, etc. There is an evaluation of the effects of various human services programs on the quality of life of the public, in general, and on specific populations needing special services or resources.

URP 365 **Three Credits**

HUMAN SERVICES PLANNING AND EVALUATION (SI)

Study of the multi-disciplinary nature of planning and the evaluation of human services, including such elements as social services, physical and mental health care, housing, substance abuse programs, ; informational services, etc. There is an evaluation of the effects of various human services programs on the quality of life of the public, in general, and on specific populations needing special services or resources.

URP 380 **Three Credits**

HOUSING AND COMMUNITY DEVELOPMENT (SI)

Introduction to both the rationale and techniques for providing assistance in the community development and city development process. There is an examination of the myriad of institutional and market forces, as well as socioeconomic and demographic factors which affect the supply and the demand for housing. Emphasis is placed on the concepts of citizen participation, self-direction, and self-help in real and simulated neighborhood revitalization efforts.

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