

TABLE OF CONTENTS

Undergraduate	5	Early Childhood Education, Child Care (Non-Teaching Certification Option), Concentration	87
Academic Calendar	6	Health, Physical Education and Exercise Science	87
Welcome to Norfolk State University	9	Bachelor of Science in Physical Education and Health Education	89
Administrative Offices	13	Bachelor of Science in Exercise Science/Health and Physical Education - Health Fitness Instructor	91
Office of the Provost	13	Bachelor of Science in Exercise Science/Health and Physical Education - Kinesiotherapy	93
Division of Finance and Administration	17	Bachelor of Science in Exercise Science/Health Wellness and Rehabilitation	94
Division of Research and Economic Development	18	Secondary Education and School Leadership	96
Division of Student Affairs	18	The Office of Clinical Experiences and Student Services	99
Division of University Advancement	26	College of Liberal Arts	101
Admissions	27	English and Foreign Languages	103
Financial Aid	29	Bachelor of Arts in English	104
Residence Hall Financial Information	32	Minor in English	105
Tuition and Fees	32	Minor in Spanish	105
Academic Information	36	Secondary Education Endorsement	106
General Education Core Program	38	History and Interdisciplinary Studies	107
Academic Standards	40	Bachelor of Arts in History	110
Academic Policies	43	Bachelor of Arts in History - Military Science (NAVY) Concentration	111
Registration Procedures	45	Bachelor of Arts in History - Online	112
Academic Resources and Services	47	Bachelor of Arts in History – Teacher Licensure Endorsement in History and Social Science	114
School of Business	50	Bachelor of Science in Interdisciplinary Studies	116
Bachelor of Science in Accountancy	56	Bachelor of Science in Interdisciplinary Studies - 3 Year Degree Concentration	118
Bachelor of Science in Business - Business Intelligence & Data Analytics, Concentration	58	Bachelor of Science in Interdisciplinary Studies - Military Concentration	119
Bachelor of Science in Business - Entrepreneurship, Concentration	62	Bachelor of Science in Interdisciplinary Studies - Online	120
Bachelor of Science in Business - Finance, Concentration	64	Certificate in African and African Diasporan Studies	120
Bachelor of Science in Business - Financial Services, Concentration	67	Minor in Africana Studies	122
Bachelor of Science in Business - Management Information Systems, Concentration	71	Minor in History	122
Bachelor of Science in Business - Management, Concentration	73	Minor in Interdisciplinary Studies	122
Bachelor of Science in Business - Marketing, Concentration	76	Online Programs	123
Business, Minor	79	Mass Communications and Journalism	124
Bachelor of Science in Tourism & Hospitality Management – On Campus & Online	79	Bachelor of Science in Mass Communications - General Broadcast Concentration	125
School of Education	82	Bachelor of Science in Mass Communications - Journalism Concentration	126
Early Childhood, Elementary and Special Education	84	Minor in Mass Communications	127
Bachelor of Science Education in Elementary Education	85	Political Science	128
Bachelor of Science Education in Special Education and Teaching	86	Bachelor of Arts in Political Science	130

Certificate in International Studies	132	Bachelor of Science in Computer Science - Computer Engineering Track	178
Minor in Political Science	133	Bachelor of Science in Computer Science - IA Track	179
Psychology	134	Bachelor of Science in Computer Science - Software Engineering Track	180
Bachelor of Arts in Psychology	135	Minor in Computer Science - Standard Track	181
Minor in Psychology	135	Bachelor of Science in Information Technology	182
Sociology	136	Engineering	183
Bachelor of Arts in Sociology	138	Minor in Biomedical Engineering	186
Minor in Sociology	139	Bachelor of Science Electrical and Electronics Engineering (General)	187
Visual and Performing Arts	140	Bachelor of Science in Electrical and Electronics Engineering (Track)	189
Bachelor of Arts in Drama and Theatre - Design and Technology Concentration	144	Minor in Electrical and Electronics Engineering	191
Bachelor of Arts in Drama and Theatre - Performance Concentration	145	Minor in Game Design and Development (for Non-EEE Majors)	192
Bachelor of Arts in Fine Arts and Graphic Design	146	Bachelor of Science in Optical Engineering	192
Bachelor of Arts in Fine Arts - Specializing in Education Concentration	148	Bachelor of Science and Master of Science in Optical Engineering (Five-Year Dual Degree)	193
Minor in Fine Arts	148	Minor in Optical Engineering	193
Bachelor of Music in Music Education - Instrumental/Keyboard/Vocal Concentration	150	Mathematics	194
Bachelor of Music in Music - Media Concentration	152	Bachelor of Science in Applied Mathematics	196
College of Science, Engineering, and Technology	154	Dual Degree in Mathematics	197
Army Science	158	Minor in Mathematics	198
Bachelor of Arts in History - Military Science (ARMY) Concentration	158	Teacher Certification in Mathematics	198
Biology	160	Naval Science	200
Minor in Biology	161	Naval Reserve Officers Training Corp (NROTC)	200
Bachelor of Science in Biology	161	Nursing and Allied Health	202
Bachelor of Science in Biology - Pre-Professional Concentration	163	Bachelor of Science in Health Services Management - Food Science & Nutrition Concentration	204
Bachelor of Science in Biology - Teacher Licensure Endorsement	165	Bachelor of Science in Health Services Management - Online	205
Certificate in Biotechnology	166	Certificate in Health Services Management	207
National Security Certificate (NSC) Program	166	Bachelor of Science in Nursing - Traditional (Pre-licensure) Baccalaureate Completion Track	208
Chemistry	166	Bachelor of Science in Nursing - Online (RN to BSN) Completion Track	210
Minor in Chemistry	168	Physics	212
Bachelor of Science in Chemistry	168	Minor in Astronomy	213
Bachelor of Science in Chemistry - Pre-Medicine Concentration	170	Bachelor of Science in Physics	213
Bachelor of Science in Chemistry - Secondary Education Concentration	171	Bachelor of Science in Physics and Master of Science in Materials Science (Five-Year Dual Degree)	214
Bachelor of Science in Chemistry and Master of Science in Materials Science - Five-Year Dual Degree	172	Minor in Physics	215
Computer Science	174	Teacher Certification in Physics	215
Bachelor of Science in Computer Science - Standard Track	176	Special Academic Programs	217

Bachelor of Science in Applied Mathematics - (DNIMAS) Track	218	Electronic Engineering Technology (EET)	257
Bachelor of Science in Biology - Pre-Professional (DNIMAS) Track	219	Elementary Education (EED)	258
Bachelor of Science in Biology - (DNIMAS) Track	220	English (ENG)	258
Bachelor of Science in Chemistry - (DNIMAS) Track	221	Entrepreneurial Studies (ENT)	260
Bachelor of Science in Chemistry - Pre-Medicine (DNIMAS) Track	222	Exercise Science (EXS)	260
Bachelor of Science in Computer Science - (DNIMAS) Track	223	Fashion Merchandising (FDM)	262
Bachelor of Science in Computer Science - (DNIMAS) Computer Engineering Track	224	Finance (FNC)	262
Bachelor of Science in Computer Science - CyberSecurity Track (DNIMAS)	225	Fine Arts (FIA)	262
Bachelor of Science in Electrical and Electronics Engineering - (DNIMAS) Track	226	Food Science and Nutrition (FSN)	265
Bachelor of Science in Optical Engineering - (DNIMAS) Track	227	French (FRN)	265
Bachelor of Science in Physics - (DNIMAS) Track	228	Geography (GEO)	266
Technology	229	Health Education (HED)	266
Associate of Science in Architectural Drafting	230	Health Professionals (HRP)	266
Bachelor of Science in Construction Management Engineering Technology	230	Health Services Management (HSM)	267
Bachelor of Science in Computer Engineering Technology	232	History (HIS)	268
Bachelor of Science in Electronic Engineering Technology	234	Hotel/Restaurant Management (HRM)	270
School of Social Work	236	Humanities (HUM)	270
Baccalaureate in Social Work	237	Industrial Management Technology (IMT)	270
Course Descriptions	239	Information Technology (ITE)	271
Accounting (ACC)	240	Journalism (JRN)	271
Astronomy (AST)	241	Management Information Systems (MIS)	271
Biology (BIO)	241	Management/Decision Sciences (MGT)	271
Construction Management Engineering Technology (CMET)	243	Marketing (MKG)	271
Chemistry (CHM)	244	Mass Communication/Journalism (MCM)	271
Communication Sciences and Disorder (CSD)	246	Mathematics (MTH)	273
Computer Literacy - Music (CLM)	247	Medical Technology (MDT)	275
Computer Engineering Technology (CET)	247	Military Science and Leadership (MSL)	275
Computer Science (CSC)	247	Music (MUS)	276
Cooperative Education (CED)	250	Naval Science (NSC)	282
Criminal Justice (CJS)	250	Nursing (NUR)	283
Drama (DRM)	253	Optical Engineering (OEN)	285
Early Childhood Education (ECE)	254	Physical Education (PED)	286
Early Childhood Special Education (ECS)	254	Physics (PHY)	289
Economics (ECN)	254	Political Science (POS)	290
Education (EDU)	255	Psychology (PSY)	292
Electronics Engineering (EEN)	255	Religion (REL)	294
		Sciences (SCI)	294
		Secondary Education/School Leadership (SED)	295
		Social Work (SWK)	295
		Sociology (SOC)	297
		Spanish (SPN)	299
		Special Education (SPE)	299

Speech Communications (SCM)	300
Technology Design (TMD)	300
Tourism & Hospitality Management (THM)	300
Urban Professionals (URP)	301
Index	302

UNDERGRADUATE

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 2023

Event	Date
State of the University Address/ Faculty/Staff/School/Department	Tuesday, August 15
Meetings/Faculty Information Workshops	
Departmental Advising and Registration	Friday, August 18 - Saturday, August 19
Classes Begin/Late Registration	Monday, August 21
Deadline for Late Registration/ Adding Courses or Declaring Audit	Friday, August 25
Mini Term 1A/1C/10 Deadline for Late Registration/Adding Courses or Declaring Audit	Friday, August 25
Deadline to Drop a Course and Receive 100% Refund (22/1 and Mini Term 1A/1C/10)	Friday, August 25
Labor Day Holiday (No Classes)	Monday, September 4
Mini Term 1A/1C/10 Advisory Grades Due (7 week session)	Tuesday, September 11 - Saturday, September 18
Founders Day Convocation	Thursday, September 21
At the 5th Week, First Advisory Grades Due (15 week session)	Monday, September 18- Saturday, September 23
Deadline to Apply for December 2023 Graduation	Friday, September 22
Spartan Wellness Day (No Classes - University Offices Open)	Friday, September 29
Mid Term Grading for Graduate Courses	Monday, October 2 - Saturday, October 7
Mini Term 1A/1C/10 Final Grades Due (7 week session)	Monday, October 2 - Saturday, October 7
Fall Break (No Classes for 15 week session)	Thursday, October 12 - Friday, October 13
Mini-Term 1B/1D/1P (Classes Begin)	Monday, October 16
Mini-Term 1B/1D/1P Deadline for Late Registration/Adding Courses or Declaring Audit	Friday, October 20
Deadline to Drop a Course and Receive 100% Refund (Mini Term 1B/1D/1P)	Friday, October 20
At the 10th week, Second Advisory Grades Due (15 week session)	Monday, October 23 - Saturday, October 28
Registration for Spring 2024 Semester Begins	Monday, October 30 - Saturday, January 13
Mini Term 1B/1D/1P Advisory Grades Due (7 week session)	Monday, October 30 - Saturday, November 4
Spartan Wellness Day (No Classes - University Offices Open)	Tuesday, November 7
Deadline to Drop a Course (23/1, 23/1B, 23/1D, 23/1P)	Friday, November 10
Reading Day (No classes)	Wednesday, November 22
Thanksgiving Break	Thursday, November 23 - Sunday, November 26
Classes Resume	Monday, November 27

Final Grades Due for December 2023 Wednesday, November 29**Graduates****Classes End Friday, December 1****(Last Day to Withdraw from the University without Academic Penalty)**

Final Examination Period Saturday, December 2 - Friday, December 8

COMMENCEMENT Saturday, December 9

Deadline to Report Final Grades Tuesday, December 12

Registration One-Stop Shop and Advising Services will be located on the first floor of the Student Center beginning Friday, August 18, 2023 through Friday, August 25, 2023 for registration. Hours of operation will be 8:00 a.m. until 6:00 p.m. Saturday, August 19, 2023, hours of operation will be from 9:00 a.m. until 1:00 p.m.

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

Spring Semester 2024

Event	Date
University Community/Faculty/Staff/School/Department Meetings/ Faculty Information Workshops	Tuesday, January 2 - Monday, January 8
Departmental Advising and Registration	Friday, January 12 - Saturday, January 13
Classes Begin/Late Registration	Tuesday, January 16
Deadline for Late Registration/Adding Courses or Declaring Audit	Friday, January 19
Mini Term 2A/2C/2O Deadline for Late Registration/Adding Courses or Declaring Audit	Friday, January 19
Deadline to Drop a Course and Receive 100% Refund (22/2 and Mini Term 2A/2C/2O)	Friday, January 19
Deadline to Apply for May 2024 Graduation	Friday, February 2
Mini Term 2A/2C/2O Advisory Grades Due (7 week session)	Monday, February 5 - Saturday, February 10
At the 5th week, First Advisory Grades Due (15 week session)	Monday, February 12 - Saturday, February 17
Spartan Wellness Day (No Classes - University Offices Open)	Monday, February 19
Mid Term Grading for Graduate Courses	Monday, February 26 - Saturday, March 2
Spring Break (No Classes)	Monday, March 11 - Sunday, March 17
Mini Term 2B/2D/2P (Classes Begin)	Monday, March 18
Mini-Term 2B/2D/2P Deadline for Late Registration/Add/Drop Courses or Declaring Audit	Friday, March 22
Deadline to Drop a Course and Received 100% Refund (Mini Term 2B/2D/2P)	Friday, March 22
Registration for Summer and Fall 2024 Semester	Monday, March 18 - Friday, June 21
At the 10th week, Second Advisory Grades Due (15 week session)	Monday, March 25 - Saturday, March 30

Mini Term 2B/2D/2P Advisory **Monday, March 25 - Saturday, March 30**
Grades Due (7 week session)

Deadline to Drop a Course (23/2, 23/2B, 23/2D, 23/2P)	Friday, April 5
---	-----------------

Spartan Wellness Day (No Classes - University Offices Open)	Friday, April 5
---	-----------------

Final Grades Due for May 2024 **Wednesday, April 24**
Graduates

Classes End	Friday, April 26
--------------------	-------------------------

(Last Day to Withdraw from the University)	
---	--

Final Examination Period	Saturday, April 27 - Friday, May 3
--------------------------	------------------------------------

COMMENCEMENT **Saturday, May 4**

Deadline to Report Final Grades	Tuesday, May 7
---------------------------------	----------------

Faculty Development Workshop	Wednesday, May 8 - Thursday, May 9
------------------------------	------------------------------------

Registration One-Stop Shop Advising and Registration Services will be located on the first floor of the Student Center beginning, Friday, January 12, 2024 through Friday, January 19, 2024. Hours of operation will be 8:00 a.m. until 6:00 p.m. Saturday, January,13 2024, hours of operation will be from 9:00 a.m. until 1:00 p.m.

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

WELCOME TO NORFOLK STATE UNIVERSITY

Norfolk State College was founded on September 18, 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

Norfolk State University's strength lies in its core values. They form the foundation for the University's actions and reflect what is important to the members of the Norfolk State University community and the Hampton Roads region.

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

Institutional Accreditation - Southern Association of Colleges and Schools Commission on Colleges (SACSCOC)

The Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) (<http://www.sacscoc.org/>) is the regional body for the accreditation of degree-granting higher education institutions in the Southern states. It serves as the common denominator of shared values and practices among the diverse institutions in Alabama, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee,

Texas, Virginia and Latin America and other international sites approved by the Commission that award associate, baccalaureate, master's, or doctorate degrees. The Commission also accepts applications from other international institutions of higher education.

SACSCOC Mission Statement: The mission of the Southern Association of Colleges and Schools Commission on Colleges is to assure the educational quality and improve the effectiveness of its member institutions.

Core Values: The Southern Association of Colleges and Schools Commission on Colleges has six core values:

1. Integrity
2. Peer Review/Self-regulation
3. Student Learning
4. Continuous Quality Improvement
5. Accountability
6. Transparency

SACSCOC Vision Statement: To serve as the premier model for shaping and ensuring the quality of higher education throughout the world.

Accreditation Status of Norfolk State University

The official statement on Norfolk State University's regional accreditation status as required by Standard 14.1, Principles of Accreditation (2018), of the Southern Association of Colleges and Schools Commission on Colleges is as follows:

Norfolk State University is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) (<http://www.sacscoc.org/>) to award associate, baccalaureate, master's, and doctorate degrees. Questions about the accreditation of Norfolk State University may be directed in writing to the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, by calling (404)679-4500, or by using information available on SACSCOC's website (www.sacscoc.org).

- Norfolk State University Institution Details (https://sacscoc.org/institutions/?institution_name=norfolk+state+university&results_per_page=25&curpage=1&institution=0011N00001h9E7kQAE)

Specialized Accreditation

Accrediting Agency	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	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 Council on Social Work Education (CSWE)	10. Computer Science (BS)
	11. Social Work (BSW)
	12. Social Work (MSW)
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)
	17. Music Education (BMus)
National Association of Schools of Music (NASM)	18. Music (MMus)
	19. Art Education (BS Art)
National Council for the Accreditation of Teacher Education (NCATE)	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
- 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 Association
- Mid Atlantic Association for School, College and University Staffing and Group for the Advancement of Doctorial Education
- National Alliance of Business College/Industry Relations
- National Association for 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 Allied Health
- Virginia Association of College Nursing
- Virginia Council of Graduate School
- Virginia Public Health Association

Campus Library

Donald L. Essex
 Dean of Library Services
 Lyman Beecher Brooks Library
 (757) 823-9153

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 Lyman Beecher Brooks 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 40 groups and cultures. Included in the gallery is a reference library that features over 400 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 (5) divisions:

- Academic Affairs (p. 13)
- Finance and Administration
- Operations and Institutional Effectiveness (<https://catalog.nsu.edu/undergraduate/administrative-offices/operations--institutional-effectiveness/>)
- Student Affairs (p. 18)
- 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, seventeen master's degree programs, and three doctoral degree programs are offered through these colleges and 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 are 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 23504
(757) 823-8462

Robert C. Nusbaum Honors College

Dr. Khadijah Miller, Dean
(757) 823-2864

The Robert C. Nusbaum 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 Robert C. Nusbaum Honors College currently has three component programs:

- The Dozoretz National Institute for Mathematics and Applied Sciences;

- The Parsons General Honors Program for all majors;
- Over 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 Honors 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 Math 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 Honors Seminar (GST 345H Honors Seminar I or GST 445H Honors Seminar III).

All students in Honors courses are part of the Robert C. Nusbaum 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 Robert C. Nusbaum 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 Honors 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 3.2.
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 (3.2 for DNIMAS students).

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

Parsons Presidential and Vice-Presidential Scholar

In order to graduate as a PARSONS PRESIDENTIAL SCHOLAR (a designation that will appear on the student's diploma), students must 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 (<https://catalog.nsu.edu/search/?P=GST%20345H>) Honors Seminar I/GST 346H (<https://catalog.nsu.edu/search/?P=GST%20346H>) Honors Seminar II or GST 445H (<https://catalog.nsu.edu/search/?P=GST%20445H>) Honors Seminar III/GST 446H (<https://catalog.nsu.edu/search/?P=GST%20446H>) Honors Seminar IV), 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, a 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, 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 Honors Seminar I/GST 346H Honors Seminar II or GST 445H Honors Seminar III/GST 446H Honors Seminar IV, 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 Honors Seminar I/GST 346H Honors Seminar II and GST 445H Honors Seminar III/GST 446H Honors Seminar IV) 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 Robert C. Nusbaum 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 college/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)
- 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.

Reserve Officers Training Corps Programs

AROTC

The Army Reserve Officers Training Corps (AROTC) 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

Virginia Beach Higher Education Center (VBHEC)

Dr. Felicia Mebane, Director

(757) 278-4620

Email: femebane@nsu.edu (dlmontgomery@nsu.edu)

The mission of NSU programs and services at the Virginia Beach Higher Education Center (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 Virginia Beach 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. 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 Higher 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.

NSU Off-Campus Site at Naval Station Norfolk (NSN)

Mr. Wayne Ivey, Director
(757) 823-2585
Email: wlivey@nsu.edu (dlmontgomery@nsu.edu)

Naval Station Norfolk MSVA Office

The Norfolk State University's Naval Station Norfolk location supports the Master's of Urban Education program. It is located in Building CEP-87 on the base and houses classrooms, a computer lab and an administrative office. The office provides administrative services, academic and enrollment counseling and registration support for students enrolled in the program. The office also serves as a liaison between the University and Naval Station Norfolk offices and facilitates access to the base for staff, faculty and students.

The office also provides support to military and veteran related student on the base. The office focuses on supporting active duty military members and veterans seeking to earn their degree by providing various services including enrollment counseling and degree planning. The office supports Norfolk State's recruiting efforts by attending military education fairs and conducting outreach to prospective military students.

Office of Extended Learning

Dr. Dorothy Jones, Director
(757) 368-8661
Website: www.nsu.edu/Academics/Academic-program/ (<http://www.nsu.edu/Academics/Academic-program/>)

Email: oel@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.

NATIONAL COUNCIL FOR STATE AUTHORIZATION RECIPROCITY AGREEMENT (NC-SARA)

Norfolk State University (NSU) is a member of the National Council for State Authorization Reciprocity Agreement (NC-SARA), which allows online delivery of distance learning programs to residents of states other than Virginia. All NSU licensure programs lead to a recommendation for a Virginia license. Therefore, prospective students should review the specific academic requirements for the program in which they are enrolling.

Pursuant to the United States Department of Education's Program Integrity Rule, each institution of higher education is required to provide all prospective and current students with the contact information of the state agency or agencies that handle complaints. NSU consistently monitors ongoing developments in the relevant laws in every state.

If authorization becomes necessary, NSU will obtain the necessary approvals.

The following link provides a list of contacts for each state (<https://www2.ed.gov/about/contacts/state/>). If additional information is needed after a student has exhausted all available internal grievance procedures, the student may access the NC-SARA student complaint process (<https://nc-sara.org/student-complaints/>).

For information on resolving non-academic concerns, please click here (<https://www.nsu.edu/campus-life/services-resources/dean-of-students/student-complaints/>).

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 a 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. Robert K. Perkins, CJS & UAF Graduate Programs Coordinator
Phone: (757) 823-8167
Email: criminaljustice@nsu.edu

Division of Finance and Administration

Dr. 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;
- 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 (a) Operations and Maintenance, (b) Capital Planning and Improvements, (c) Administrative Services and (d) 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:

- Office of Communications and Marketing at (757) 823- 8373,
- Office of Finance and Business at (757) 823-8011,
- Office of Risk Management at (757) 823-9142,
- Switchboard at (757) 823-8600 or
- 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.

CONTACT CAMPUS POLICE

Incidents may be reported in person or anonymous by dialing the following phone numbers:

Non-Emergency: 757-823-8102

Emergency: 757-823-9000

Anonymous: 757-823-2148

Division of Student Affairs

Dr. Leonard Brown, Jr.

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, Suite 307

(757) 823-2152

The Office of the Dean of Students assists all students, graduate and undergraduate, from their initial orientation to the University 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 Services Center, Suite 319

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.

Student Conduct

Student Services Center, Suite 307

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 members of the Norfolk State University community and promotes a safe and inclusive atmosphere. Additional information can be found at: Student Conduct (<http://www.nsu.edu/dean-of-students/student-conduct/>)

The Dean of Students Office is located in the Student Services Center, Suite 307. The telephone number is 757-823-2152.

Student Concerns

The Office of Academic Engagement handles academic student concerns rising to the Office of the Provost.

STUDENT COMPLAINT PROCESS

Student concerns will be addressed according to published protocol. For academic concerns, students must begin by interacting directly with the instructor in a respectful, professional manner. Nearly all concerns can be resolved at the level of the instructor in a collegial conversation.

- Please take time to review a flowchart of the University's Student Complaint Process (<https://www.nsu.edu/oel/student-complaint-process/>)

The official process for addressing student concerns is located at the link below. Please see the appropriate school or college Student Resolution Form below.

Student Resolution Forms

- Student Resolution Form - COLA (https://www.nsu.edu/Academics/Academic-Engagement/Student-Pathways-Academic-Formation/Student-Concerns/Student-Resolution-Form_COLA.aspx)
- Student Resolution Form - CSET (https://www.nsu.edu/Academics/Academic-Engagement/Student-Pathways-Academic-Formation/Student-Concerns/Student-Resolution-Form_CSET.aspx)
- Student Resolution Form - Business (https://www.nsu.edu/Academics/Academic-Engagement/Student-Pathways-Academic-Formation/Student-Concerns/Student-Resolution-Form_Business.aspx)
- Student Resolution Form - Social Work (https://www.nsu.edu/Academics/Academic-Engagement/Student-Pathways-Academic-Formation/Student-Concerns/Student-Resolution-Form_Social-Work.aspx)
- Student Resolution Form - Education (https://www.nsu.edu/Academics/Academic-Engagement/Student-Pathways-Academic-Formation/Student-Concerns/Student-Resolution-Form_Education.aspx)

SCHEV

In accordance with VAC 40-31-100 of the Virginia Administrative Code, the State Council of Higher Education of Virginia (SCHEV) is responsible for investigating all written and signed student complaints against post-secondary educational institutions in Virginia, once a student has exhausted all available grievance procedures at the University.

Please review the attached link for additional information: SCHEV Student Complaints Page (<http://www.schev.edu/index/students-and-parents/resources/student-complaints/>).

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:

1. 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;
2. 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;

3. 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
4. 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 318, 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, and apply for jobs and internships;
3. Providing career coaching and advising;
4. Planning and conducting professional seminars which include 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 to 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, when the student is a minor (under 18), per 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 504 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 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 SSDS 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 SSDS 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 an advocate, 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 (Fall semester entry-April 1st for current NSU students and June 1st for incoming first-time students; Spring semester entry-November 1st).

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 their 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.

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 home.

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. Students considering withdrawing from their assigned space after the designated grace period outlined in their Housing Contract may incur additional charges on their student account based on contract terms.

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 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 2022-2023 Residential Handbook (Guide to Community Living) 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 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 8:00 a.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.

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 and Leadership 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 Organizations

- Accounting Association
- 200 Plus Menu
- 2xclusive Hip Hop Dance Team
- Active Minds at Norfolk State University
- African Student Association
- Airway Science Club
- Alpha Delta Mu National Social Work Honor Society
- Alpha Epsilon Rho
- 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 Physics 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
- 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
- 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
- Hotel, Restaurant and Institutional Management Club
- Industrial Education Technology Club
- Institute of Electrical and Electronic Engineers
- Interdisciplinary Studies Student Association
- International Food Service Executive Association
- 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 Delta Law Fraternity International
- 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
- Psi Chi (The International Honor Society in Psychology)
- Psychology Club
- Public Relations Student Society of America
- Resident Hall Association
- SDX
- Senior Class
- 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
- Spartan Generals
- Spartan Legion Marching Band
- Student Activities Board
- Student Affiliate of the American Chemical Society
- Student Ambassadors
- Student Association of Music
- Student Athlete Advisory Committee
- Student Government Association
- Student National Technical Association
- Student Nurse 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
- University Dance 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.

Military Services and Veterans Affairs

Student Services Center, Suite 110
(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.

Other Services

1. Active Duty Personnel

Norfolk State University is approved for tuition assistance for military members seeking to earn their degree. Each branch of the armed forces offers tuition assistance for voluntary, off-duty education programs. Each branch also has a policy regarding the use of tuition assistance and how to apply. The Military Services and Veterans Office offers assistance to all Active Duty, Reserve and Guard members seeking guidance on tuition assistance. Active duty military member can also contact the Education Services Office for assistance.

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. Social Security Benefits

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

Eligible Students may apply for educational benefits through the Department of **Veterans Affairs**. Dependents of qualified disabled or deceased veterans may qualify for educational benefits. For more information, contact the Military Services and Veterans Affairs Office at (757) 823-2586.

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 (<http://www.nsu.edu/>) and by checking the federal website at studentaid.gov. (<https://studentaid.gov/h/apply-for-aid/fafsa/>)

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

The Virginia Military Survivors and Dependents Education Program (VMSDEP) provides education benefits to spouses and children of military service members killed, missing in action, taken prisoner, or who have been rated by the United States Department of Veterans Affairs as totally and permanently disabled or at least 90 percent permanently disabled as a result of military service. Military service includes service in the United States Armed Forces, United States Armed Forces Reserves, or the Virginia National Guard.

The

Virginia Department of Veterans Services is responsible for managing the program and collaborates with the State Council of Higher Education for Virginia (SCHEV) and Virginia's public colleges and universities to assist spouses and children of qualified military service members and Veterans in attaining their educational goals. Benefits are available for up to eight semesters, the equivalent of four academic years.

For information and to apply for VMSDEP, please visit the Virginia Department of Veterans Services (DVS) website at <https://www.dvs.virginia.gov/education-employment> (<https://www.dvs.virginia.gov/education-employment/>).

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 the in-state rate, or otherwise considered a resident, for tuition 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 their formal state of residence).
- Anyone using transferred Post-9/11 GI Bill benefits who lives in the state where the IHL is located, and the transferor is a member of the uniformed service serving on active duty.
- A spouse or child using benefits under the Marine Gunnery 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 their formal state of residence).
- A spouse or child using benefits under Survivors' and Dependents' Education Assistance (Chapter 35) living in the Commonwealth of Virginia while attending a school located in the Commonwealth of Virginia (regardless of their formal state of residence).
- An individual using educational assistance under chapter 31, Veteran Readiness and Employment (VR&E) who lives in the Commonwealth of Virginia while attending a school located in the Commonwealth of Virginia (regardless of their formal state of residence).
- Anyone described above remains continuously enrolled (other than during regularly scheduled breaks between courses, semesters, or terms) at the same institution. Therefore, the described person must be enrolled in the institution and use educational benefits under Chapters 30, 31, 33 or 35 of Title 38, United States Code.

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government Web site at <http://www.benefits.va.gov/gibill>.

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

First-year students contact admissions@nsu.edu.

Phone: (757) 823-8396, or 1-800-274-1821

Fax: (757) 823-2078

Transfer students contact transfer@nsu.edu.

Phone: (757) 451-7745, or 1-800-274-1821

Fax: (757) 823-2504

Phone lines are open 8 a.m. to 5 p.m., Monday through Friday.

<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. A student who earns at least a 2.3 (weighted) high school grade point average and a minimum test score of an 880 SAT or 17 ACT is eligible for consideration of admissions. Students who have demonstrated the greatest probability of success will be given priority in the selection of the first year class.
2. The applicant should have completed a minimum total of 22 units distributed as follows:

Code	Title	Credits
	English	4
	Mathematics ** (Algebra I, Geometry, Algebra II (required))	3
	Science	3
	History and Social Sciences	3
	Health and Physical Education	2
	Electives	1
	Fine Arts or Practical Arts	6
Total Credits		22

3. Students with a high school equivalency diploma will be considered upon 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.

** We strongly encourage students to take at least one Math course beyond Algebra II.

Admissions Priority Deadline

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

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 \$25.
2. Applicants must submit a copy of their high school transcript, SAT and/or ACT scores, and any other requested documentation.
3. Applicants should submit official college transcript(s) if any college coursework has been attempted.
4. An official report of test results issued by the General Education Development (GED) testing center, if applicable.

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 \$25.
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 a score of 3 or higher 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 a score of 4 or higher 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 \$25, 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. Evaluated transcripts

must be received directly from a NACES approved organization (www.naces.org).

- Proof of English language proficiency for non-native English speakers. Evaluated transcripts must be received directly from a NACES (<https://www.naces.org/>) approved organization.
- SAT I or ACT scores for undergraduate applicants under the age of 21. Two letters of recommendation.
- Financial documents, including notarized affidavit of support, student certification form, and bank statements in US language and currency.

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

Complete the undergraduate application and submit with the \$25 non-refundable application fee. 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.

Applicants who were denied admissions as a degree-seeking student may not enroll as a non-degree student during the same academic year. Courses taken as a Non-degree students will not count towards admissions to the university. Non-degree seeking students may take no more than 29 semester hours.

Teacher Certification applicants must receive approval from the department, must hold a four year degree from an accredited institution, and must provide that transcript to the Office of Transfer Admissions and Services.

Second Degree

Students who have completed a bachelor's degree at NSU and wish to pursue another bachelor's degree in another field of study should apply as a Second Degree student.

Second degree applicants are those who have earned a bachelor's degree from an accredited 4-year institution and are seeking an additional bachelor's degree at NSU. They should apply as a transfer student and must provide a copy of the transcript from their degree granting institution to the Office of Transfer Admissions and Services.

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 at <http://www.nsu.edu>. (<http://www.nsu.edu/nursing/>)

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 Transfer Admissions and Services at (757) 451-7745 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 (<http://www.nsu.edu/About/Administrative-Offices-Services/Registrar/Readmission-Reclamation/>). 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.

Financial Aid

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

The University offers several awards each year to eligible new and returning students. 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 teacher certification, meet satisfactory academic standards, and meet the eligibility requirements of the award. 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 to the University prior to receiving a financial aid award offer. Award notifications are sent via mail for new students and MyNSU (https://fs.nsu.edu/adfs/ls/?wa=wsignin1.0&wtrealm=urn%3amy.nsu.edu%3a443&wctx=https%3a%2f%2fmy.nsu.edu%2f_layouts%2f15%2fAuthenticate.aspx%3fSource%3d%252F&wreply=https%3a%2f%2fmy.nsu.edu%2f_trust%2fdefault.aspx) for returning students beginning in late February to early March of each award year.

The information about financial aid contained in this catalog is subject to change or deletion as circumstances warrant. For more information about financial aid, visit the Financial Aid webpage (<https://www.nsu.edu/Admissions-Aid/Apply-to-NSU/Tuition-and-Financial-Aid/Types-of-Aid/Financial-Aid/>)

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 and submitted online via studentaid.gov ([https://](https://studentaid.gov/h/apply-for-aid/fafsa/)

studentaid.gov/h/apply-for-aid/fafsa/) and can be completed as early as October 1.

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 to be considered for federal, state, and/or various institutional aid types. Students must also continue to meet eligibility criteria.

The U. S. 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 indicated NSU's Federal School Code (003765) on the FAFSA. These reports will include the student's Expected Family Contribution (EFC). The EFC is calculated using a standard formula established by the U.S. Department of Education 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 U.S. Department of Education and/or NSU may select students for a process called verification. Students selected for verification must provide supporting documentation prior to being awarded financial. Documentation may include, but is not limited to, number in household/ college verification, dependency status, untaxable income such as pension/annuities and IRA deductions, and other documents to resolve any discrepancies reported by the U.S. Department of Education. Students who are selected for verification will be notified by the Financial Aid Office via letter, email and/or the "Missing Documents" section of the Financial Aid MyNSU (https://fs.nsu.edu/adfs/ls/?wa=wsignin1.0&wtrealm=urn%3amy.nsu.edu%3a443&wctx=https%3a%2f%2fmy.nsu.edu%2f_layouts%2f15%2fAuthenticate.aspx%3fSource%3d%252F&wreply=https%3a%2f%2fmy.nsu.edu%2f_trust%2fdefault.aspx) portal. 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, cost of attendance and aid may be pro-rated.

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-Quarters	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 determining financial aid. The financial aid cost of attendance budget is based upon tuition and fees, as approved by the Board of Visitors, an average cost of room and board (meals), and an estimated cost for books and supplies, transportation, and miscellaneous 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 for award information online via MyNSU (https://fs.nsu.edu/adfs/ls/?wa=wsignin1.0&wtrealm=urn%3amy.nsu.edu%3a443&wctx=https%3a%2f%2fmy.nsu.edu%2f_layouts

%2f15%2fAuthenticate.aspx%3fSource%3d%252F&wreply=https%3a%2f%2fmy.nsu.edu%2f_trust%2fdefault.aspx). In addition, Financial Aid sends various correspondences throughout the academic year to the student's NSU email address.

GRANTS

Federal Pell Grant

Federal Pell Grants are available to undergraduate students only and are administered by the Financial Aid Office. Eligibility is determined based on a Pell Grant chart that is published by the U.S. Department of Education.

Federal Supplemental Educational Opportunity Grant (FSEOG)

The Federal Supplemental Educational Opportunity Grants (FSEOG) is awarded to students who have exceptional financial need (students with a 0 EFC) and is awarded to undergraduate students only. FSEOG is awarded to the neediest Pell eligible students.

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

The Teacher Education Assistance for College and Higher Education Grant (TEACH) is available to undergraduate and graduate students who are taking course work that is necessary to begin a career in teaching. For more information on the TEACH Grant program, students may visit the website: <https://studentaid.gov/teach-grant-program>. (<https://studentaid.gov/teach-grant-program/>)

Virginia Guaranteed Assistance Program (VGAP)

The Virginia Guaranteed Assistance Program (VGAP) is available to undergraduate Virginia students. Below are the VGAP criteria:

Entering Freshman

- Must be an undergraduate student admitted in a degree-seeking program
- Must be a Virginia resident
- Must have a 2.5 or higher for entering freshman
- Must enroll as a full-time student (12 credit hours or more)

VGAP Renewal

- Maintain a cumulative grade point average (GPA) of a 2.0 or higher
- Maintain full-time enrollment
- Advance to the next grade level or complete at least 30 credit hours each year

Virginia Commonwealth Award

The Virginia Commonwealth Award may be offered to Virginia and non-Virginia residents; undergraduate or graduate. Below are the requirements for the undergraduate Commonwealth Award:

- Must be a U.S. citizen/Virginia resident
- Must be enrolled in a degree-seeking program
- Must maintain satisfactory academic progress
- Must be enrolled at least 6 hours

Scholarships

While every attempt is made to meet a student's financial need, funds are limited. Students may require additional funds to cover their expenses.

Students who request additional funds may wish to first consider applying for institutional and external scholarships.

Institutional Scholarships – Institutional scholarships are offered through various departments as well as via the AwardSpring (<https://nsuscholarships.awardspring.com/>) portal on the Financial Aid webpage at <https://www.nsu.edu/Admissions-Aid/Apply-to-NSU/Tuition-and-Financial-Aid/Types-of-Aid/Financial-Aid> (<https://www.nsu.edu/Admissions-Aid/Apply-to-NSU/Tuition-and-Financial-Aid/Types-of-Aid/Financial-Aid/>).

LOANS

William D. Ford Federal Direct Loan

Undergraduate may qualify for the Federal William D. Ford Direct Student Loan programs (<http://www.nsu.edu/financialaid/scholarships/>). 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 while the student is enrolled in at least six (6) credit hours. Repayment of Direct Student Loans begin six (6) months after the student ceases to be enrolled in at least six (6) credit hours, withdraws from the University (officially or unofficially), or graduates from the University. Students must maintain satisfactory academic progress (SAP). Freshmen may borrow up to \$3500, Sophomores - \$4500, Juniors and Seniors - \$5500 in the Ford Subsidized Direct Loan and an additional \$2000 in the Ford Unsubsidized Loan (as a dependent student). Independent students may borrow up to \$4000 as a junior and \$5000 as a senior in the Ford Unsubsidized Loan. The maximum aggregate Ford Subsidized Loan amount as an undergraduate is \$23,000. In combination of the Ford Subsidized and Unsubsidized Loans, an undergraduate student may borrow up to \$31,000 as a dependent student and \$57,500 as an independent student.

Unsubsidized Federal Direct Loans are loans in which 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 (6) months after the student is no longer enrolled in school at least half-time.

It is important to note that students are awarded Federal Ford Direct Subsidized and Unsubsidized loans as a part of the financial aid award packet. Students are required to sign the Master Promissory Note (MPN) and complete Loan Entrance Counseling at the point that the initial award is offered. This process does not require renewal on an annual basis.

In addition, at the point in which the student graduates, withdraws from the University (officially or unofficially) or fails to return, the student must complete loan exit counseling.

The MPN and the loan entrance/exit counseling information can be found via www.studentaid.gov.

Federal Direct Parent PLUS & Graduate PLUS

Parents of dependent students may opt to apply for the Parent Loan for Undergraduate Student (PLUS). Graduate students may also opt to apply for the Graduate PLUS loan. Both types of loans require a credit check, a Master Promissory Note, Loan Entrance Counseling and in some cases, Credit Counseling. Parents and graduate students may apply for these loans via www.studentaid.gov (<http://www.studentaid.gov/>).

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 work experience and networking opportunities. Eligible students are awarded either federal, state or institutional work-study. Institutional Work-Study excludes employment in certain departments, such as Athletics, Housing and Residence Life, Student Activities, Parking, Fitness Center, and Band. Eligible Work-Study students may also work in community service jobs. Students awarded work-study can view job announcements via the web at Work Study (<http://www.nsu.edu/work-study/>) page. A work-study award does not reduce a student's direct charges (i.e., tuition/fees, room/board, or other charges).

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 to receive and to maintain eligibility for financial aid. 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 (GPA) as well as a quantitative (pace) measurement of courses attempted versus courses completed.

Academic Level Requirements – A student's must completed hours must equal 67% of hours attempted to meet SAP standards. (For example: a student 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 level. Failure to maintain the minimum cumulative grade point average, not completing at least 67% of hours attempted, and/or exceeding 150% of attempted coursework in the student's program of study will constitute not meeting SAP standards.

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

These minimum standards are required in order to be considered for all federal, state, or institutional financial assistance.

The Appeal Process

To appeal a denial of financial aid, the student may submit the SAP Appeal Application along with all supporting documentation and the SAP Academic Plan. The SAP Appeal Application can be obtained via Forms | Financial Aid | Norfolk State University - Norfolk State University (nsu.edu) (<https://www.nsu.edu/financial-aid/forms/>).

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 (1) 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 and regular mail.

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. Title IV funds include Pell, FSEOG, Direct Subsidized, Direct Unsubsidized, and PLUS loans. In addition, certain State aid programs may require recalculation of eligibility (i.e., the Virginia Commonwealth and VGAP awards).

If a student leaves the University prior to completing 60% of a semester, the Financial Aid Office recalculates eligibility for Title IV Funds 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 (5) consecutive 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 federal and/or state aid is returned, the student may owe a balance to the University. If this is the case, the student should contact the Student Accounts Office to make financial arrangements to pay the outstanding balance.

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 (<http://www.nsu.edu/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) 823-8377.

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:

Withdrawal/Drop Period	Refund to Student
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.

Tuition and Fees

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. Comprehensive Virginia State Code 23.1-502 information can be found at Virginia Law (<https://law.lis.virginia.gov/vacode/title23.1/chapter5/section23.1-502/>).

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, 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:

- 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: <https://www.nsu.edu/tuitionandfees.aspx>.

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:

- To register for and enroll in courses as a full-time or part-time student for academic credit if such senior citizen had a taxable individual income not exceeding \$15,000 \$23,850 for Virginia income tax purposes for the year preceding the year in which enrollment is sought;
- To register for and audit courses offered for academic credit; and
- To register for and enroll in courses not offered for academic credit in any state institution of higher education in this Commonwealth.

Such senior citizen shall pay no tuition or fees except fees established for the purpose of paying for course materials, such as laboratory fees, but shall be subject to the admission requirements of the institution and a determination by the institution of its ability to offer the course or courses for which the senior citizen registers. The State Council of Higher Education shall establish procedures to

ensure that tuition-paying students are accommodated in courses before senior citizens participating in this program are enrolled. However, the state institutions of higher education may make individual exceptions to these procedures when the senior citizen has completed seventy-five percent of the requirements for a degree.

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.

New Student Orientation Fee

All first-time freshman and transfer students must pay a one-time orientation fee of \$100. 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> (<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 studentaid.gov. (<https://studentaid.gov/h/apply-for-aid/fafsa/>) 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.

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:

Course Number	Course Level
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-minute to 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.

Degrees and Certificates Offered

Degree	Program Name
CERT	Health Services Management
CERT	Accounting
CERT	African and African Diasporan Studies
CERT	Going Places/Tourism and Hospitality
CERT	International Studies
CERT	Logistics Management
CERT	Paraprofessional Education Program
AS	Architectural Drafting
BA	Drama and Theatre
BA	English
BA	Fine Arts and Graphic Design
BA	History
BA	Political Science

BA	Psychology	MMUS	Music
BA	Sociology	MPH	Public Health
BA/BS	Interdisciplinary Studies	MS	Computer Science
BMUS	Music	MS	CyberPsychology
BS	Accountancy	MS	Cybersecurity
BS	Biology	MS	Electronics Engineering
BS	Business	MS	Materials Science
BS	Chemistry	MSW	Social Work
BS	Computer Engineering Technology	PHD	Clinical Psychology (w/ODU)
BS	Computer Science	PHD	Materials Science and Engineering
BS	Construction Management Engineering Technology	PHD	Social Work
BS	Early Childhood Education		
BS	Electrical and Electronics Engineering		
BS	Electronics Engineering Technology		
BS	Exercise Science/Physical Education		
BS	Health Services Management		
BS	Information Technology		
BS	Mass Communications		
BS	Mathematics		
BS	Nursing		
BS	Optical Engineering		
BS	Physics		
BS	Tourism and Hospitality Management		
BSED	Elementary Education		
BSED	Special Education and Teaching		
BSW	Social Work		
GRAD CERT	CyberPsychology		
MA	Criminal Justice		
MA	Media and Communications		
MA	Special Education		
MA	Urban Affairs		
MA	Urban Education		
MAT	Teaching		
MFA	Visual Studies		
MHA	Healthcare Administration		
MHI	Master of Health Informatics		

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 lifelong 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.

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.

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 Spartan Seminar 101, SEM 102 Spartan Seminar 102 and SEM 201 Spartan Seminar 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 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:

Code	Title	Credits
Communications (9 Semester Hours)		
ENG 101	College English I	3
ENG 102	College English II	3
ENG 285	Public Speaking	3
Digital, Computer & Telecommunications (3 Semester Hours)		
CSC 150	Computer Literacy	3
Health and Physical Education (3 Semester Hours)		
PED 100	Fundamentals of Fitness for Life	1
HED 100	Personal and Community Health	2
Humanities (3 Semester Hours)		
Select one of the following:		3
ENG 207	Introduction to World Literature	
FIA 201	Basic Art Appreciation	
MUS 301	Music Appreciation	
Mathematics (3 Semester Hours)		
MTH 103	Mathematics in General Education	3
Spartan Seminar Series (3 Semester Hours)		
SEM 101	Spartan Seminar 101	1
SEM 102	Spartan Seminar 102	1
SEM 201	Spartan Seminar 201	1
Natural Sciences (7 Semester Hours)		
BIO 100	Biological Science	3
SCI 101	Physical Science for Non-Science Majors	3
Select one of the following:		1
BIO 100L	Biological Science Lab	
SCI 101L	Physical Science Laboratory	
Social Sciences (3 Semester Hours)		

Select one of the following:	3
SOC 101 Introduction to the Social Sciences	
HIS 101 History of World Societies II	
HIS 103 United States History Since 1865	
BUS 175 Intro to Business & Entrepreneurship	
ECN 200 Basic Principles of Economics	
Cultural Perspectives (6 Semester Hours)	
Select two of the following:	6
ENG 383 African American Literature ¹	
MUS 234 African American Music ¹	
HIS 335 African American History ¹	
HIS 336 African American History Since 1865 ¹	
HRP 320 African American Health ¹	
HIS 371 African History/Cultures 1600-PRESENT ¹	
Total Credits	40

¹ Courses satisfy the University's cultural elective requirement. Departments may require specific courses for their majors.

Requirements for the Associate 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 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 College English I, ENG 102 College English II, and SEM 101 Spartan Seminar 101, SEM 102 Spartan Seminar 102 and SEM 201 Spartan Seminar 201.

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.

Code	Title	Credits
Communications (6 Semester Hours)		
ENG 101	College English I	3
ENG 102	College English II	3
Digital, Computer & Telecommunications (3 Semester Hours)		
CSC 150	Computer Literacy	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		
PHY 152	General Physics	3

PHY 152L	General Physics Laboratory I	1
Spartan Seminar Series (3 Semester Hours)		
SEM 101	Spartan Seminar 101	1
SEM 102	Spartan Seminar 102	1
SEM 201	Spartan Seminar 201	1
Mathematics (3 Semester Hours)		
MTH 153	College Algebra & Trigonometry	3
Social Sciences (3 Semester Hours)		
Select one of the following:		3
SOC 101	Introduction to the Social Sciences	
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)		
Select one of the following:		3
HUM 210	Humanities	
HUM 211	Humanities	
FIA 201	Basic Art Appreciation	
MUS 301	Music Appreciation	
ENG 207	Introduction to World Literature	
Total Credits		28

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 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 semester hours.
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

A 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.

Grade Reports

Effective Spring 2006, grades are available online at MyNSU (<http://www.nsu.edu/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. Information regarding the grade appeal process is described in the Academic Policies section.

The Grading System

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

Grade	Quality Points	Description
A	4.0000	
A-	3.7000	
B+	3.3000	
B	3.0000	

B-	2.7000	
C+	2.3000	
C	2.0000	
C-	1.7000	
D+	1.3000	
D	1.0000	
D-	0.7000	
F	0.0000	
P ¹	None	n/a
AU ²	None	Audit
I	None	Incomplete Official
W	None	Withdrawal
NG	None	No Grade Reported
S	None	Satisfactory
#	None	Forgiven

¹ Pass/fail grades are not available to graduate students, except in those courses designated for pass/fail credit.

² Entered by the Registrar.

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 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 complete the following:

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 conducted by the Dr. Patricia Lynch Stith Student Success Center.

2nd Warning

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

1. Complete an Academic Performance Contract
2. See advisor to revise course schedule or assist with course selection and registration
3. Enroll in required Study Skills Seminar course conducted by the Dr. Patricia Lynch Stith Student Success Center, if not taken in the first probation warning.

NOTE: GST 200 is the Study Skills Seminar course

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 the following:

General Education Core - 6 Hours

MLS and NCS 111, 112, 211, 212 for PED 100 Fundamentals of Fitness for Life, HED 100 Personal and Community Health HIS 380 American Military History for HIS 100 History of World Societies I, HIS 101 History of World Societies II, HIS 102 United States History to 1865, HIS 103 United States History Since 1865.

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
First Week	10% + \$50
Second Week	20% + \$50
Third Week	30% + \$50
Fourth Week	40% + \$50
Fifth Week	50% + \$50
Sixth Week	60% + \$50
Seventh Week	70% + \$50
Eighth Week	80% + \$50
Ninth Week	90% + \$50
Tenth Week	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 as follows:

- 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

Registration

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) 823-8377.

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 (<http://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/>) (<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 (<http://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 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 (PLSSSC)

Nursing & General Education Bldg., Suite 100

Phone: (757) 823-8507

Email: ssc@nsu.edu

Website: www.nsu.edu/provost/ssc (<https://www.nsu.edu/Academics/Academic-Resources/PLSSSC/>)

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.

The Dr. Patricia Lynch Stith Student Success Center's (PLSSSC) leadership, staff, and student leaders strive to be the Ideal Spartan Unit and achieve excellence in operations, programs, and services aimed at student success. Our mission statement guides us toward these ideals.

We promote student learning and degree completion by providing academic support services and programs that inform, empower and facilitate student success.

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.

The Writing Center

Lyman Beecher Brooks Library

P. (757) 823-2271

E: writingcenter@nsu.edu

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.

NSU Testing Services

Wilson Hall, Room 133

P. (757) 823-2504

E: testingcenter@nsu.edu

Mission Statement

The mission of Testing Services is to provide opportunities for students, faculty, staff, and local residents to transform lives and communities, by providing exemplary services and innovative technologies in the delivery of local, national and professional certification examinations; to support lifelong learning and professional advancement.

- Directions to the Testing Center (<http://www.nsu.edu/getattachment/Campus-Life/Services-Resources/Testing-Site/Norfolk-State-University-Testing-Center-Directions.pdf.aspx?lang=en-US>)
- Testing Services Calendar (<http://www.nsu.edu/testingservices/calendar/>)

Services Provided

Testing Services is a member of the National College Testing Association and is dedicated to the promotion of professionalism and quality in the administration of testing services and programs, including issues relating

to test administration, test accessibility, test development, test scoring, and assessment.

The Testing Center is equipped with over 40 computers in a quality test environment with state of the art workstations and test security systems. The Testing Center provides admissions testing for prospective students, academic testing to support ongoing assessment of continued student learning and national test administration (<http://www.nsu.edu/testing-services/national-tests/>).

Student Benefits

If you are enrolled at Norfolk State University, test administration fees for Non-NSU university exams are waived. Student Request Forms (<http://www.nsu.edu/testing-services/student-request-forms/>)

Military Benefits

Norfolk State University Testing Services is a fully funded CLEP test center. The United States government offers funding for all 34 CLEP exams through the Defense Activity for Non-Traditional Education Support (DANTES).

What to Expect When You Visit the Testing Center

- Outstanding and supportive customer service by certified test administrators and proctors
- A clean, comfortable and quiet test environment that is conducive to optimal test-taker performance
- Collaboration between testing services staff, faculty and administrators to ensure that students receive University and national tests in compliance with educational and professional testing standards

Coordination with the NSU Office of Accessibility Services/International Student Services (O.A.S.I.S.) (<http://www.nsu.edu/oasis/>) to ensure compliance with Section 504 of the Rehabilitation Act of 1973 and the American's with Disabilities Act. These mandates prohibit discrimination of individuals with disabilities and ensure that students with documented disabilities are afforded reasonable accommodations to have equal access to campus classes, activities, and resources.

For more information or to schedule a test appointment please contact Testing Services at (757) 823-2504 or testingcenter@nsu.edu.

No-Cost Career Interest Inventories

If you are uncertain about your major and would like help in identifying your strongest interests, feel free to take one of the **no-cost** interest inventories below.

- Career One-stop Interest Assessment (30 items) (<https://www.careeronestop.org/toolkit/careers/interest-assessment.aspx>)
- O*NET Interest Profiler (60 items) (<https://www.mynextmove.org/explore/ip/>)

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.

SPARTANS ALL INCLUSIVE LEARNING

- Spartans All Inclusive Learning (<https://www.nsu.edu/About/Administrative-Offices-Services/Auxiliary-Services/Departments/Spartans-All-Inclusive-Learning/>)

Spartans All Inclusive Learning (SAIL) is a course material model that reduces the cost of materials for students and ensures they have all their materials across all courses prior to the first day of class. Instead of purchasing materials a la carte, the cost will be included in their tuition or as a charge. The bookstore will provide each student with a convenient package for physical books and digital materials will be delivered directly to Blackboard. The cost is \$25.00 per credit hour.

The program provides all required textbooks, lab manuals and digital textbook versions to eligible students. The program does not include consumables that cannot be returned and reused such as lab goggles, dissection kits, molecular model kits, engineering kits or nursing kits. The deadline to return all rental textbooks is the last day of finals. The program provides you with the option to purchase textbooks at a reduced rate during the return period.

All NSU students will be automatically enrolled in the SAIL program. Students have the option to opt out of the program by completing the SAIL Opt-Out Form. Opting out means you will not receive access to your required course materials in a convenient package at a discounted rate. Title IV financial aid recipients have the option of purchasing their books at their own expense or by using their excess FA funds at the Barnes & Noble College bookstore.

STARS Tutoring Center

Department of Nursing & Allied Health, NGE Room 311
(757) 823-2453

The Science and Technology Academicians on the Road to Success (STARS) is a school-wide program that builds on the successes of Norfolk State University's undergraduate Science, Technology, Engineering and Mathematics (STEM) programs.

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.

SCHOOL OF BUSINESS

Mr. Glenn Carrington, Dean
 Dr. Moncef Belhadjali and Dr. Macki Sissoko, Associate Deans
 (757) 823-8920

The School of Business Mission Statement

"The mission of the School of Business at Norfolk State University is to provide quality education to produce successful, ethical, competitive and innovative leaders for the global environment by focusing on 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 (<https://www.aacsb.edu/>) (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 there are seven concentrations: Business Intelligence & Data Analytics, Entrepreneurship, Finance, Financial Services, Management, Management Information Systems, and Marketing. The School also administers 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.

Code	Title	Credits
ACC 201	Principles of Financial Accounting	3
ACC 202	Principles of Managerial Accounting	3
BUS 175	Intro to Business & Entrepreneurship	3
BUS 281	Legal Environment for Business	3
BUS 330	Business Communication	3
BUS 270	Business Statistics	3
BUS 376	Statistics & Quantitative Methods	3
ECN 211	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-Ecommerce	3
BUS 366	Principles of Marketing	3
Total Credits		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 Associate Deans 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.

Code	Title	Credits
ENG 101	College English I	3
ENG 102	College English II	3
MTH 131	Pre-Calculus for Business Majors	3
MTH 132	Calculus for Business Majors	3
ENG 285	Public Speaking	3
SEM 101 & SEM 102 & SEM 201	Spartan Seminar 101 and Spartan Seminar 102 and Spartan Seminar 201	3
Total Credits		18

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, Thelma M. Hayes Endowment, Wal-Mart Leadership, Houghton Scholarship fund, and the Holley/Osborne Endowment. Students interested in applying for scholarships may contact Ms. Lauren Smith, Dean's Office at the School of Business: lmsmith@nsu.edu.

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

Vacant, Director
(757) 823-8920

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.

School of Business Programs

- Bachelor of Science in Accountancy (p. 56)
 - Minor in Accountancy (<https://catalog.nsu.edu/undergraduate/business/accountancy-bs/accountancy-minor/>)
- Bachelor of Science in Business (<https://catalog.nsu.edu/undergraduate/business/business-bs/>)
 - Bachelor of Science in Business - Business Intelligence & Data Analytics Concentration (p. 58)
 - Bachelor of Science in Business - Entrepreneurship Concentration (p. 62)
 - Bachelor of Science in Business - Finance Concentration (p. 64)
 - Bachelor of Science in Business - Financial Services Concentration (p. 67)
 - Bachelor of Science in Business - Management Information Systems Concentration (p. 71)
 - Bachelor of Science in Business - Management Concentration (p. 73)
 - Bachelor of Science in Business - Marketing Concentration (p. 76)
 - Minor in Business (<https://catalog.nsu.edu/undergraduate/business/business-bs/business-minor/>)
- Bachelor of Science in Tourism & Hospitality Management - On Campus & Online (p. 79)

School of Business Faculty & Staff

Mr. Glenn Carrington

Dean

grcarrington@nsu.edu

Dr. Sami Abbasi

Faculty

smabbasi@nsu.edu

Ms. Akosua Acheamponmaa

Interim Director, Innovation Center

aacheamponmaa@nsu.edu

Dr. Rhonda Alexander

Adjunct Faculty

rtalexander@nsu.edu

Dr. Jean-Marie Banatte

Faculty

jbanatte@nsu.edu (jmbanatte@nsu.edu)

Dr. Moncef Belhadjali

Faculty/Associate Dean

mbelhadjali@nsu.edu

Ms. Sylvia Brooks

Director for Advising and Tutoring

sdbrooks@nsu.edu

Dr. Jim Chen

Faculty

jchen@nsu.edu

Dr. Sidika Colakoglu

Faculty

sncolakoglu@nsu.edu

Dr. Wanda Cooper, JD

Adjunct Faculty

wjcooper@nsu.edu

Dr. James Corprew

Faculty

jccorprew@nsu.edu

Dr. Dondeti Reddy

Faculty

vrondeti@nsu.edu

Mr. Lawrence Epplein

Faculty

lepplein@nsu.edu

Dr. Omer Gokus

Faculty

ogokus@nsu.edu

Mr. Clarence Harris

Adjunct Faculty

charris@nsu.edu

Dr. Dorothy Jones

Faculty

dljones@nsu.edu

Dr. John Kamiru

Faculty

jkamiru@nsu.edu

Dr. Thomas Lewis

Faculty

tflewis@nsu.edu

Dr. Carl McGowan

Faculty

cbmcgowan@nsu.edu

Dr. Bidhu Mohanty

Faculty

bbmohanty@nsu.edu

Dr. Anh Ngo

Faculty

adngo@nsu.edu

Dr. Bhagaban Panigrahi

Faculty

bpanigrahi@nsu.edu

Ms. Tanya C. Perry

Outreach Director

tcperry@nsu.edu

Dr. Macki Sissoko

Faculty/Associate Dean

msissoko@nsu.edu

Ms. Lauren Smith

Office Manager

lmsmith@nsu.edu

Mrs. Josephine Stanley-Brown

Faculty

jsbrown@nsu.edu

Mr. Keith Vanier

Information Technology Specialist

kwvanier@nsu.edu

Dr. Gary Whaley

Faculty

glwhaley@nsu.edu

Mr. Edwin Wu, JD

Adjunct Faculty

ejwu@nsu.edu

Dr. Enrique Zapatero

Faculty

egzapatero@nsu.edu

Bachelor of Science in Accountancy

PROGRAMS OF STUDY

The Bachelor of Science (B.S.) degree in Accountancy requires 121 hours of undergraduate coursework. The Commonwealth of Virginia requires at least 150 semester hours of education prior to taking the Certified Public Accountant (CPA) exam. The courses required of all accounting majors are found in the Curriculum (p. 56) tab.

Any non-business student can take a Minor in Accountancy or Certifications in Accounting. Below is the information for these programs.

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.

Summary of Graduation Requirements for Major

Subject Area	Credits
General Education Core (p. 38)	40
Business Core	48
Business Electives	6
Major Requirements	21
Other Requirements	6
Total Credit Hours	121

Suggested Plan of Study

Course	Title	Credits
First Year		
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
BUS 175	Intro to Business & Entrepreneurship	3
BIO 100	Biological Science	3
SCI 101	Physical Science for Non-Science Majors	3
BIO 100L or SCI 101L	Biological Science Lab or Physical Science Laboratory	1
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
BUS 284	Advanced Microcomputing	3
MTH 131	Pre-Calculus for Business Majors	3
MTH 132	Calculus for Business Majors	3
Select one of the following:		1
PED 100	Fundamentals of Fitness for Life	
PED 101	Modified Physical Education	

Modified PED

Credits		30
Second Year		
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
Select one Humanities Elective (Note B) (p. 57)		3
Credits		31
Third Year		
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 Communication	3
BUS 376	Statistics & Quantitative Methods	3
BUS 387	Introduction to Entrepreneurship	3
BUS 360	Corporate Finance	3
BUS 365	Organizational Behavior & Theory	3
BUS 366	Principles of Marketing	3
Credits		30
Fourth Year		
ACC 330	Accounting Systems	3
ACC 412	Advanced Accounting II	3
ACC 414	Auditing	3
ACC 418	Governmental/Not-For-Profit Accounting	3
BUS 476	Operations Management	3
BUS 478	Strategic Management	3
BUS 375	Management Information Systems- Ecommerce	3
BUS 391	Intro to Data Analytics & Big Data	3
Select one Global/Cultural and Language Elective (Note B) (p. 57)		3
Select one Business Elective (Note C) (p. 57)		3
Credits		30
Total Credits		121

List of Notes for Business Degree Programs

Note A

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

Code	Title	Credits
BIO 100L	Biological Science Lab	1
SCI 101L	Physical Science Laboratory	1

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.

Code	Title	Credits
ENG 207	Introduction to World Literature	3
ENG 383	African American Literature	3
FIA 201	Basic Art Appreciation	3
GEO 141	World Regional Geography	3
GEO 336	Political Geography	3
GEO 337	Geography of Africa	3
HIS 335	African American History	3
HIS 336	African American History Since 1865	3
HIS 361	Readings in Latin American History	3
HIS 365	Caribbean History	3
HIS 370	Early African History/Cultures to 1600	3
HIS 371	African History/Cultures 1600-PRESENT	3
HIS 446	Colonial Latin American	3
HIS 448	Slavery in the Atlantic Basin	3
HUM 210	Humanities	3
HUM 211	Humanities	3
MUS 301	Music Appreciation	3
MUS 234	African American Music	3
POS 315	African American Politics	3
POS 323	Comparative Government	3
POS 360	International Relations,International Relations	3
POS 463	Politics of African Nations	3
POS 468	Survey Contemporary Governments of Asia	3
PSY 340	Psychology of the African American	3
SOC 101	Introduction to the Social Sciences	3
SOC 237	Racial & Ethnic Minorities	3
SOC 325	Sociology of Business/Internationalism	3
FRN 111/112	Elementary French I	3
SPN 111/112	Elementary Spanish I	3

Note C

A student in the **Accountancy major** needs to take one (3 credit hours) of the following as Business Elective course.

Code	Title	Credits
ACC 316	Federal Income Tax II	3
BUS 396	Intro to Blockchain: Foundations	3
BUS 423	Decision Support & Data Mining	3
BUS 363	Financial Institutions	3
BUS 390	Business Database Management	3
BUS 431	Information Systems Analysis and Design	3

While a student in the **Business concentration** needs to take four (12 credit hours) of the following courses towards Business Electives.

Code	Title	Credits
ACC 301	Intermediate Accounting I	3
ACC 315	Federal Income Tax I	3
BUS 350	The Ethics of Management	3
BUS 363	Financial Institutions	3
BUS 367	Consumer Behavior	3
BUS 390	Business Database Management	3
BUS 396	Intro to Blockchain: Foundations	3
BUS 413	Principles of Retailing	3
BUS 415	International Management	3
BUS 431	Information Systems Analysis and Design	3
BUS 465	Small Business Management	3
BUS 477	Franchising	3
THM 351	Event Planning and Management	3
THM 381	Facilities Layout & Design	3

Note D

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

Code	Title	Credits
ACC 330	Accounting Systems	3
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 362	Investments	3
BUS 363	Financial Institutions	3
BUS 368	Human Resources Management	3
BUS 420	Organizational Change & Development	3
BUS 367	Consumer Behavior	3
BUS 413	Principles of Retailing	3
BUS 390	Business Database Management	3

Note E

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

Code	Title	Credits
ACC 301	Intermediate Accounting I	3
ACC 315	Federal Income Tax I	3
ACC 330	Accounting Systems	3
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 417	International Business	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 476	Operations Management	3
BUS 395	Intro to Personal Financial Planning	3
BUS 368	Human Resources Management	3
BUS 390	Business Database Management	3
BUS 497	Marketing Research	3

Note F

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

Code	Title	Credits
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 465	Small Business Management	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 477	Franchising	3
BUS 370	Total Quality Management	3
BUS 435	Compensation	3
BUS 390	Business Database Management	3
BUS 421	Web Application Development E-Business	3
BUS 423	Decision Support & Data Mining	3
BUS 412	Marketing Management	3
BUS 413	Principles of Retailing	3
BUS 497	Marketing Research	3

Note G

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

Code	Title	Credits
ACC 301	Intermediate Accounting I	3
ACC 302	Intermediate Accounting II	3
ACC 330	Accounting Systems	3
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 465	Small Business Management	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 362	Investments	3
BUS 368	Human Resources Management	3
BUS 415	International Management	3
BUS 374	Programming in Visual Basic	3
BUS 387	Introduction to Entrepreneurship	3
BUS 497	Marketing Research	3

Note H

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

Code	Title	Credits
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 465	Small Business Management	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 477	Franchising	3
BUS 362	Investments	3
BUS 363	Financial Institutions	3
BUS 368	Human Resources Management	3

BUS 410	Leadership & Diversity in Management	3
BUS 390	Business Database Management	3
BUS 411	Salesmanship	3
BUS 414	Advertising	3

Note P

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

Code	Title	Credits
THM 381	Facilities Layout & Design	3
THM 401	Club and Resort Management	3
THM 481	Hospitality Property Management	3
THM 351	Event Planning and Management	3
THM 402	Management by Menu	3

Note Q

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

Code	Title	Credits
BUS 387	Introduction to Entrepreneurship	3
BUS 465	Small Business Management	3
BUS 477	Franchising	3
THM 494	Restaurant Franchising	3

Note R

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

Code	Title	Credits
THM 391	Internship in Hospitality	3
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 413	Principles of Retailing	3
BUS 412	Marketing Management	3
BUS 367	Consumer Behavior	3

Note S

Code	Title	Credits
BUS 417	International Business	3
BUS 415	International Management	3
BUS 416	International Marketing	3
SOC 325	Sociology of Business/Internationalism	3
BUS 390	Business Database Management	3
BUS 375	Management Information Systems-Ecommerce	3

Bachelor of Science in Business - Business Intelligence & Data Analytics, Concentration

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Business Core	48

Business Electives	12
Major Requirements	15
Other Requirements	6
Total Credit Hours	121

Curriculum

First Year		Credits
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
BUS 175	Introduction to Business & Entrepreneurship	3
BIO 100	Biological Science	3
SCI 101	Physical Science for Non-Science Majors	3
XXX XXX	Select one Science Lab Elective (Note A) (p. 59)	1
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
BUS 284	Advanced Microcomputing	3
MTH 131	Pre-Calculus for Business Majors	3
MTH 132	Calculus for Business Majors	3
Select one of the following:		1
PED 100	Fundamentals of Fitness for Life	
PED 101	Modified Physical Education	
Modified PED		
Credits		30

Second Year

SEM 201	Spartan Seminar 201	1
ACC 201	Elementary Accounting I	3
ACC 202	Elem Accounting II	3
BUS 281	Legal Environment for Business	3
BUS 270	Business Statistics	3
ECN 211	Principles of Econ	3
ECN 212	Principles of Econ	3
ENG 210	Practical English Grammar	3
PSY 210	Introduction to Psychology	3
ENG 285	Public Speaking	3
XXX XXX	Select one Humanities Elective (Note B) (p. 59)	3
Credits		31

Third Year

BUS 330	Business Communication	3
BUS 376	Statistics & Quantitative Methods	3
BUS 387	Introduction to Entrepreneurship	3
BUS 360	Corporate Finance	3
BUS 375	Management Information Syst & E-Commerce	3
BUS 390	Business Database Management	3
BUS 365	Organizational Behavior & Theory	3
BUS 366	Principles of Marketing	3
BUS 391	Introduction to Data Analytics & Big Data	3
BUS 396	Introduction to Blockchain: Foundations	3-0
Credits		30-27

Fourth Year

BUS 431	Information Systems Analysis and Design	3
BUS 491	Data Analytics & Visualization	3
BUS 492	Business Intelligence	3
BUS 476	Operations Management	3
BUS 478	Strategic Management	3
BUS XXX	Select three Business Electives (See Note C) (p. 60)	12
XXX XXX	Select one Global/Cultural and Language Elective (Note B) (p. 59)	3
Credits		30
Total Credits		121-118

List of Notes for Business Degree Programs

Note A

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

Code	Title	Credits
BIO 100L	Biological Science Lab	1
SCI 101L	Physical Science Laboratory	1

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.

Code	Title	Credits
ENG 207	Introduction to World Literature	3
ENG 383	African American Literature	3
FIA 201	Basic Art Appreciation	3
GEO 141	World Regional Geography	3
GEO 336	Political Geography	3
GEO 337	Geography of Africa	3
HIS 335	African American History	3
HIS 336	African American History Since 1865	3
HIS 361	Readings in Latin American History	3
HIS 365	Caribbean History	3
HIS 370	Early African History/Cultures to 1600	3
HIS 371	African History/Cultures 1600-PRESENT	3
HIS 446	Colonial Latin American	3
HIS 448	Slavery in the Atlantic Basin	3
HUM 210	Humanities	3
HUM 211	Humanities	3
MUS 301	Music Appreciation	3
MUS 234	African American Music	3
POS 315	African American Politics	3
POS 323	Comparative Government	3
POS 360	International Relations, International Relations	3
POS 463	Politics of African Nations	3
POS 468	Survey Contemporary Governments of Asia	3
PSY 340	Psychology of the African American	3

SOC 101	Introduction to the Social Sciences	3
SOC 237	Racial & Ethnic Minorities	3
SOC 325	Sociology of Business/Internationalism	3
FRN 111/112	Elementary French I	3
SPN 111/112	Elementary Spanish I	3

Note C

A student in the **Accountancy major** needs to take one (3 credit hours) of the following as Business Elective course.

Code	Title	Credits
ACC 316	Federal Income Tax II	3
BUS 396	Intro to Blockchain: Foundations	3
BUS 423	Decision Support & Data Mining	3
BUS 363	Financial Institutions	3
BUS 390	Business Database Management	3
BUS 431	Information Systems Analysis and Design	3

While a student in the **Business concentration** needs to take four (12 credit hours) of the following courses towards Business Electives.

Code	Title	Credits
ACC 301	Intermediate Accounting I	3
ACC 315	Federal Income Tax I	3
BUS 350	The Ethics of Management	3
BUS 363	Financial Institutions	3
BUS 367	Consumer Behavior	3
BUS 390	Business Database Management	3
BUS 396	Intro to Blockchain: Foundations	3
BUS 413	Principles of Retailing	3
BUS 415	International Management	3
BUS 431	Information Systems Analysis and Design	3
BUS 465	Small Business Management	3
BUS 477	Franchising	3
THM 351	Event Planning and Management	3
THM 381	Facilities Layout & Design	3

Note D

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

Code	Title	Credits
ACC 330	Accounting Systems	3
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 362	Investments	3
BUS 363	Financial Institutions	3
BUS 368	Human Resources Management	3
BUS 420	Organizational Change & Development	3
BUS 367	Consumer Behavior	3
BUS 413	Principles of Retailing	3
BUS 390	Business Database Management	3

Note E

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

Code	Title	Credits
ACC 301	Intermediate Accounting I	3
ACC 315	Federal Income Tax I	3
ACC 330	Accounting Systems	3
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 417	International Business	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 476	Operations Management	3
BUS 395	Intro to Personal Financial Planning	3
BUS 368	Human Resources Management	3
BUS 390	Business Database Management	3
BUS 497	Marketing Research	3

Note F

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

Code	Title	Credits
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 465	Small Business Management	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 477	Franchising	3
BUS 370	Total Quality Management	3
BUS 435	Compensation	3
BUS 390	Business Database Management	3
BUS 421	Web Application Development E-Business	3
BUS 423	Decision Support & Data Mining	3
BUS 412	Marketing Management	3
BUS 413	Principles of Retailing	3
BUS 497	Marketing Research	3

Note G

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

Code	Title	Credits
ACC 301	Intermediate Accounting I	3
ACC 302	Intermediate Accounting II	3
ACC 330	Accounting Systems	3
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 465	Small Business Management	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 362	Investments	3
BUS 368	Human Resources Management	3

BUS 415	International Management	3
BUS 374	Programming in Visual Basic	3
BUS 387	Introduction to Entrepreneurship	3
BUS 497	Marketing Research	3

Note H

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

Code	Title	Credits
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 465	Small Business Management	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 477	Franchising	3
BUS 362	Investments	3
BUS 363	Financial Institutions	3
BUS 368	Human Resources Management	3
BUS 410	Leadership & Diversity in Management	3
BUS 390	Business Database Management	3
BUS 411	Salesmanship	3
BUS 414	Advertising	3

Note P

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

Code	Title	Credits
THM 381	Facilities Layout & Design	3
THM 401	Club and Resort Management	3
THM 481	Hospitality Property Management	3
THM 351	Event Planning and Management	3
THM 402	Management by Menu	3

Note Q

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

Code	Title	Credits
BUS 387	Introduction to Entrepreneurship	3
BUS 465	Small Business Management	3
BUS 477	Franchising	3
THM 494	Restaurant Franchising	3

Note R

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

Code	Title	Credits
THM 391	Internship in Hospitality	3
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 413	Principles of Retailing	3

BUS 412	Marketing Management	3
BUS 367	Consumer Behavior	3

Note S

Code	Title	Credits
BUS 417	International Business	3
BUS 415	International Management	3
BUS 416	International Marketing	3
SOC 325	Sociology of Business/Internationalism	3
BUS 390	Business Database Management	3
BUS 375	Management Information Systems-Ecommerce	3

Bachelor of Science in Business - Entrepreneurship, Concentration

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Business Core	48
Business Electives	12
Major Requirements	15
Other Requirements	6
Total Credit Hours	121

Curriculum

First Year		Credits
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
BUS 175	Introduction to Business & Entrepreneurship	3
BIO 100	Biological Science	3
SCI 101	Physical Science for Non-Science Majors	3
XXX XXX	Select one Science Lab Elective (Note A) (p. 62)	1
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
BUS 284	Advanced Microcomputing	3
MTH 131	Pre-Calculus for Business Majors	3
MTH 132	Calculus for Business Majors	3
Select one of the following:		1
PED 100	Fundamentals of Fitness for Life	
PED 101	Modified Physical Education	
PED 102	Modified Physical Education	
Modified PED		

Credits 30

Second Year

SEM 201	Spartan Seminar 201	1
ACC 201	Elementary Accounting I	3
ACC 202	Elem Accounting II	3
BUS 281	Legal Environment for Business	3
BUS 270	Business Statistics	3
ECN 211	Principles of Econ	3
ECN 212	Principles of Econ	3
ENG 210	Practical English Grammar	3
PSY 210	Introduction to Psychology	3
ENG 285	Public Speaking	3
XXX XXX	Humanities Elective (See Note B) (p. 62)	3

Credits 31

Third Year

BUS 330	Business Communication	3
BUS 376	Statistics & Quantitative Methods	3
BUS 386	New Venture Finance	3
BUS 387	Introduction to Entrepreneurship	3
BUS 360	Corporate Finance	3

BUS 375	Management Information Syst & E-Commerce	3
BUS 365	Organizational Behavior & Theory	3
BUS 366	Principles of Marketing	3
BUS 391	Introduction to Data Analytics & Big Data	3
XXX XXX	Global/Cultural & Language Elective (Note B) (p. 63)	3
Credits		30

Fourth Year

BUS 417	International Business (BUS XXX:)	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
BUS XXX	Business Elective (Note C) (p. 63)	12
Credits		30
Total Credits		121

List of Notes for Business Degree Programs

Note A

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

Code	Title	Credits
BIO 100L	Biological Science Lab	1
SCI 101L	Physical Science Laboratory	1

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.

Code	Title	Credits
ENG 207	Introduction to World Literature	3
ENG 383	African American Literature	3
FIA 201	Basic Art Appreciation	3
GEO 141	World Regional Geography	3
GEO 336	Political Geography	3
GEO 337	Geography of Africa	3
HIS 335	African American History	3
HIS 336	African American History Since 1865	3
HIS 361	Readings in Latin American History	3
HIS 365	Caribbean History	3
HIS 370	Early African History/Cultures to 1600	3
HIS 371	African History/Cultures 1600-PRESENT	3
HIS 446	Colonial Latin American	3
HIS 448	Slavery in the Atlantic Basin	3
HUM 210	Humanities	3
HUM 211	Humanities	3
MUS 301	Music Appreciation	3
MUS 234	African American Music	3
POS 315	African American Politics	3

POS 323	Comparative Government	3
POS 360	International Relations, International Relations	3
POS 463	Politics of African Nations	3
POS 468	Survey Contemporary Governments of Asia	3
PSY 340	Psychology of the African American	3
SOC 101	Introduction to the Social Sciences	3
SOC 237	Racial & Ethnic Minorities	3
SOC 325	Sociology of Business/Internationalism	3
FRN 111/112	Elementary French I	3
SPN 111/112	Elementary Spanish I	3

Note C

A student in the **Accountancy major** needs to take one (3 credit hours) of the following as Business Elective course.

Code	Title	Credits
ACC 316	Federal Income Tax II	3
BUS 396	Intro to Blockchain: Foundations	3
BUS 423	Decision Support & Data Mining	3
BUS 363	Financial Institutions	3
BUS 390	Business Database Management	3
BUS 431	Information Systems Analysis and Design	3

While a student in the **Business concentration** needs to take four (12 credit hours) of the following courses towards Business Electives.

Code	Title	Credits
ACC 301	Intermediate Accounting I	3
ACC 315	Federal Income Tax I	3
BUS 350	The Ethics of Management	3
BUS 363	Financial Institutions	3
BUS 367	Consumer Behavior	3
BUS 390	Business Database Management	3
BUS 396	Intro to Blockchain: Foundations	3
BUS 413	Principles of Retailing	3
BUS 415	International Management	3
BUS 431	Information Systems Analysis and Design	3
BUS 465	Small Business Management	3
BUS 477	Franchising	3
THM 351	Event Planning and Management	3
THM 381	Facilities Layout & Design	3

Note D

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

Code	Title	Credits
ACC 330	Accounting Systems	3
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 362	Investments	3
BUS 363	Financial Institutions	3
BUS 368	Human Resources Management	3

BUS 420	Organizational Change & Development	3
BUS 367	Consumer Behavior	3
BUS 413	Principles of Retailing	3
BUS 390	Business Database Management	3

Note E

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

Code	Title	Credits
ACC 301	Intermediate Accounting I	3
ACC 315	Federal Income Tax I	3
ACC 330	Accounting Systems	3
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 417	International Business	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 476	Operations Management	3
BUS 395	Intro to Personal Financial Planning	3
BUS 368	Human Resources Management	3
BUS 390	Business Database Management	3
BUS 497	Marketing Research	3

Note F

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

Code	Title	Credits
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 465	Small Business Management	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 477	Franchising	3
BUS 370	Total Quality Management	3
BUS 435	Compensation	3
BUS 390	Business Database Management	3
BUS 421	Web Application Development E-Business	3
BUS 423	Decision Support & Data Mining	3
BUS 412	Marketing Management	3
BUS 413	Principles of Retailing	3
BUS 497	Marketing Research	3

Note G

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

Code	Title	Credits
ACC 301	Intermediate Accounting I	3
ACC 302	Intermediate Accounting II	3
ACC 330	Accounting Systems	3
BUS 300	Internship	3
BUS 400	Independent Study	3

BUS 493	Special Topics in Business	3
BUS 465	Small Business Management	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 362	Investments	3
BUS 368	Human Resources Management	3
BUS 415	International Management	3
BUS 374	Programming in Visual Basic	3
BUS 387	Introduction to Entrepreneurship	3
BUS 497	Marketing Research	3

Note H

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

Code	Title	Credits
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 465	Small Business Management	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 477	Franchising	3
BUS 362	Investments	3
BUS 363	Financial Institutions	3
BUS 368	Human Resources Management	3
BUS 410	Leadership & Diversity in Management	3
BUS 390	Business Database Management	3
BUS 411	Salesmanship	3
BUS 414	Advertising	3

Note P

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

Code	Title	Credits
THM 381	Facilities Layout & Design	3
THM 401	Club and Resort Management	3
THM 481	Hospitality Property Management	3
THM 351	Event Planning and Management	3
THM 402	Management by Menu	3

Note Q

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

Code	Title	Credits
BUS 387	Introduction to Entrepreneurship	3
BUS 465	Small Business Management	3
BUS 477	Franchising	3
THM 494	Restaurant Franchising	3

Note R

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

Code	Title	Credits
THM 391	Internship in Hospitality	3
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 413	Principles of Retailing	3
BUS 412	Marketing Management	3
BUS 367	Consumer Behavior	3

Note S

Code	Title	Credits
BUS 417	International Business	3
BUS 415	International Management	3
BUS 416	International Marketing	3
SOC 325	Sociology of Business/Internationalism	3
BUS 390	Business Database Management	3
BUS 375	Management Information Systems-Ecommerce	3

Bachelor of Science in Business - Finance, Concentration

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Business Core	48
Business Electives	12
Major Requirements	15
Other Requirements	6
Total Credit Hours	121

Curriculum

First Year	Credits
SEM 101 Spartan Seminar 101 & SEM 102 and Spartan Seminar 102	2
BUS 175 Introduction to Business & Entrepreneurship	3
BIO 100 Biological Science	3
SCI 101 Physical Science for Non-Science Majors	3
XXX XXX Select one Science Lab Elective (Note A) (p. 65)	1
ENG 101 College English I	3
ENG 102 College English II	3
HED 100 Personal and Community Health	2
BUS 284 Advanced Microcomputing	3
MTH 131 Pre-Calculus for Business Majors	3
MTH 132 Calculus for Business Majors	3
Select one of the following:	1
PED 100 Fundamentals of Fitness for Life	
PED 101 Modified Physical Education	
Modified PED	
Credits	30

Second Year	Credits
SEM 201 Spartan Seminar 201	1
ACC 201 Elementary Accounting I	3
ACC 202 Elem Accounting II	3

BUS 281	Legal Environment for Business	3
BUS 270	Business Statistics	3
ECN 211	Principles of Econ	3
ECN 212	Principles of Econ	3
ENG 210	Practical English Grammar	3
PSY 210	Introduction to Psychology	3
ENG 285	Public Speaking	3
XXX XXX	Select one Humanities Elective (Note B) (p. 65)	3

Credits **31**

Third Year

BUS 330	Business Communication	3
BUS 376	Statistics & Quantitative Methods	3
BUS 362	Investments	3
BUS 387	Introduction to Entrepreneurship	3
BUS 360	Corporate Finance	3
BUS 375	Management Information Syst & E-Commerce	3
BUS 365	Organizational Behavior & Theory	3
BUS 366	Principles of Marketing	3
BUS 391	Introduction to Data Analytics & Big Data	3
XXX XXX	Global/Cultural & Language Elective (See Note B) (p. 65)	3

Credits **30**

Fourth Year

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	3
BUS XXX	Business Elective (See Note C) (p. 65)	12

Credits **30**

Total Credits **121**

List of Notes for Business Degree Programs

Note A

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

Code	Title	Credits
BIO 100L	Biological Science Lab	1
SCI 101L	Physical Science Laboratory	1

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.

Code	Title	Credits
ENG 207	Introduction to World Literature	3
ENG 383	African American Literature	3
FIA 201	Basic Art Appreciation	3

GEO 141	World Regional Geography	3
GEO 336	Political Geography	3
GEO 337	Geography of Africa	3
HIS 335	African American History	3
HIS 336	African American History Since 1865	3
HIS 361	Readings in Latin American History	3
HIS 365	Caribbean History	3
HIS 370	Early African History/Cultures to 1600	3
HIS 371	African History/Cultures 1600-PRESENT	3
HIS 446	Colonial Latin American	3
HIS 448	Slavery in the Atlantic Basin	3
HUM 210	Humanities	3
HUM 211	Humanities	3
MUS 301	Music Appreciation	3
MUS 234	African American Music	3
POS 315	African American Politics	3
POS 323	Comparative Government	3
POS 360	International Relations, International Relations	3
POS 463	Politics of African Nations	3
POS 468	Survey Contemporary Governments of Asia	3
PSY 340	Psychology of the African American	3
SOC 101	Introduction to the Social Sciences	3
SOC 237	Racial & Ethnic Minorities	3
SOC 325	Sociology of Business/Internationalism	3
FRN 111/112	Elementary French I	3
SPN 111/112	Elementary Spanish I	3

Note C

A student in the **Accountancy major** needs to take one (3 credit hours) of the following as Business Elective course.

Code	Title	Credits
ACC 316	Federal Income Tax II	3
BUS 396	Intro to Blockchain: Foundations	3
BUS 423	Decision Support & Data Mining	3
BUS 363	Financial Institutions	3
BUS 390	Business Database Management	3
BUS 431	Information Systems Analysis and Design	3

While a student in the **Business concentration** needs to take four (12 credit hours) of the following courses towards Business Electives.

Code	Title	Credits
ACC 301	Intermediate Accounting I	3
ACC 315	Federal Income Tax I	3
BUS 350	The Ethics of Management	3
BUS 363	Financial Institutions	3
BUS 367	Consumer Behavior	3
BUS 390	Business Database Management	3
BUS 396	Intro to Blockchain: Foundations	3
BUS 413	Principles of Retailing	3
BUS 415	International Management	3
BUS 431	Information Systems Analysis and Design	3

BUS 465	Small Business Management	3
BUS 477	Franchising	3
THM 351	Event Planning and Management	3
THM 381	Facilities Layout & Design	3

Note D

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

Code	Title	Credits
ACC 330	Accounting Systems	3
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 362	Investments	3
BUS 363	Financial Institutions	3
BUS 368	Human Resources Management	3
BUS 420	Organizational Change & Development	3
BUS 367	Consumer Behavior	3
BUS 413	Principles of Retailing	3
BUS 390	Business Database Management	3

Note E

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

Code	Title	Credits
ACC 301	Intermediate Accounting I	3
ACC 315	Federal Income Tax I	3
ACC 330	Accounting Systems	3
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 417	International Business	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 476	Operations Management	3
BUS 395	Intro to Personal Financial Planning	3
BUS 368	Human Resources Management	3
BUS 390	Business Database Management	3
BUS 497	Marketing Research	3

Note F

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

Code	Title	Credits
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 465	Small Business Management	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 477	Franchising	3
BUS 370	Total Quality Management	3
BUS 435	Compensation	3
BUS 390	Business Database Management	3

BUS 421	Web Application Development E-Business	3
BUS 423	Decision Support & Data Mining	3
BUS 412	Marketing Management	3
BUS 413	Principles of Retailing	3
BUS 497	Marketing Research	3

Note G

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

Code	Title	Credits
ACC 301	Intermediate Accounting I	3
ACC 302	Intermediate Accounting II	3
ACC 330	Accounting Systems	3
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 465	Small Business Management	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 362	Investments	3
BUS 368	Human Resources Management	3
BUS 415	International Management	3
BUS 374	Programming in Visual Basic	3
BUS 387	Introduction to Entrepreneurship	3
BUS 497	Marketing Research	3

Note H

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

Code	Title	Credits
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 465	Small Business Management	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 477	Franchising	3
BUS 362	Investments	3
BUS 363	Financial Institutions	3
BUS 368	Human Resources Management	3
BUS 410	Leadership & Diversity in Management	3
BUS 390	Business Database Management	3
BUS 411	Salesmanship	3
BUS 414	Advertising	3

Note P

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

Code	Title	Credits
THM 381	Facilities Layout & Design	3
THM 401	Club and Resort Management	3
THM 481	Hospitality Property Management	3

THM 351	Event Planning and Management	3
THM 402	Management by Menu	3

Note Q

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

Code	Title	Credits
BUS 387	Introduction to Entrepreneurship	3
BUS 465	Small Business Management	3
BUS 477	Franchising	3
THM 494	Restaurant Franchising	3

Note R

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

Code	Title	Credits
THM 391	Internship in Hospitality	3
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 413	Principles of Retailing	3
BUS 412	Marketing Management	3
BUS 367	Consumer Behavior	3

Note S

Code	Title	Credits
BUS 417	International Business	3
BUS 415	International Management	3
BUS 416	International Marketing	3
SOC 325	Sociology of Business/Internationalism	3
BUS 390	Business Database Management	3
BUS 375	Management Information Systems-Ecommerce	3

Bachelor of Science in Business - Financial Services, Concentration

The NSU School of Business has formed a partnership with Supernova Consulting, several Wall Street investment firms, and selected HBCUs to create a pathway of success to enable African Americans to pass the CFP Certification Examination and enter the Financial Services Wealth Management Industry.

The Bachelor of Science in Business - Financial Services concentration will prepare the students for the CFP Certification Examination and provide qualified students with paid internships offered by the Wall Street partners. This program requires a minimum of 121 hours of undergraduate work.

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Business Core	48
Business Electives	12
Major Requirements	15

Other Requirements	6
Total Credit Hours	121

Curriculum

First Year	Credits
SEM 101 Spartan Seminar 101 & SEM 102 and Spartan Seminar 102	2
BUS 175 Introduction to Business & Entrepreneurship	3
BIO 100 Biological Science	3
SCI 101 Physical Science for Non-Science Majors	3
Select one Science Lab Elective (Note A) (p. 68)	1
ENG 101 College English I	3
ENG 102 College English II	3
HED 100 Personal and Community Health	2
BUS 284 Advanced Microcomputing	3
MTH 131 Pre-Calculus for Business Majors	3
MTH 132 Calculus for Business Majors	3
PED 100 Fundamentals of Fitness for Life	1
Credits	30

Second Year	Credits
SEM 201 Spartan Seminar 201	1
ACC 201 Elementary Accounting I	3
ACC 202 Elem Accounting II	3
BUS 281 Legal Environment for Business	3
BUS 270 Business Statistics	3
ECN 211 Principles of Econ	3
ECN 212 Principles of Econ	3
ENG 210 Practical English Grammar	3
PSY 210 Introduction to Psychology	3
ENG 285 Public Speaking	3
Select one Global/Cultural Elective (Note B) (p. 68)	3
Credits	31

Third Year	Credits
BUS 376 Statistics & Quantitative Methods	3
BUS 362 Investments	3
BUS 387 Introduction to Entrepreneurship	3
BUS 360 Corporate Finance	3
BUS 375 Management Information Syst & E-Commerce	3
BUS 365 Organizational Behavior & Theory	3
BUS 366 Principles of Marketing	3
ACC 315 Federal Income Tax I	3
BUS 3XX Business Electives (See Note C) (p. 68)	3
Select one Global/Cultural & Language Elective (Note B) (p. 68)	3
Credits	30

Fourth Year	Credits
BUS 330 Business Communication	3
BUS 363 Financial Institutions	3
BUS 391 Introduction to Data Analytics & Big Data	3
BUS 430 Retirement Planning	3

BUS 474	Intermediate Financial Management	3
BUS 476	Operations Management	3
BUS 478	Strategic Management	3
BUS 440	Taxes and Estate Planning	3
BUS 499	Cases in Financial Management	3
BUS XXX	Business Electives (See Note C) (p. 68)	3
Credits		30
Total Credits		121

List of Notes for Business Degree Programs

Note A

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

Code	Title	Credits
BIO 100L	Biological Science Lab	1
SCI 101L	Physical Science Laboratory	1

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.

Code	Title	Credits
ENG 207	Introduction to World Literature	3
ENG 383	African American Literature	3
FIA 201	Basic Art Appreciation	3
GEO 141	World Regional Geography	3
GEO 336	Political Geography	3
GEO 337	Geography of Africa	3
HIS 335	African American History	3
HIS 336	African American History Since 1865	3
HIS 361	Readings in Latin American History	3
HIS 365	Caribbean History	3
HIS 370	Early African History/Cultures to 1600	3
HIS 371	African History/Cultures 1600-PRESENT	3
HIS 446	Colonial Latin American	3
HIS 448	Slavery in the Atlantic Basin	3
HUM 210	Humanities	3
HUM 211	Humanities	3
MUS 301	Music Appreciation	3
MUS 234	African American Music	3
POS 315	African American Politics	3
POS 323	Comparative Government	3
POS 360	International Relations, International Relations	3
POS 463	Politics of African Nations	3
POS 468	Survey Contemporary Governments of Asia	3
PSY 340	Psychology of the African American	3
SOC 101	Introduction to the Social Sciences	3
SOC 237	Racial & Ethnic Minorities	3
SOC 325	Sociology of Business/Internationalism	3

FRN 111/112	Elementary French I	3
SPN 111/112	Elementary Spanish I	3

Note C

A student in the **Accountancy major** needs to take one (3 credit hours) of the following as Business Elective course.

Code	Title	Credits
ACC 316	Federal Income Tax II	3
BUS 396	Intro to Blockchain: Foundations	3
BUS 423	Decision Support & Data Mining	3
BUS 363	Financial Institutions	3
BUS 390	Business Database Management	3
BUS 431	Information Systems Analysis and Design	3

While a student in the **Business concentration** needs to take four (12 credit hours) of the following courses towards Business Electives.

Code	Title	Credits
ACC 301	Intermediate Accounting I	3
ACC 315	Federal Income Tax I	3
BUS 350	The Ethics of Management	3
BUS 363	Financial Institutions	3
BUS 367	Consumer Behavior	3
BUS 390	Business Database Management	3
BUS 396	Intro to Blockchain: Foundations	3
BUS 413	Principles of Retailing	3
BUS 415	International Management	3
BUS 431	Information Systems Analysis and Design	3
BUS 465	Small Business Management	3
BUS 477	Franchising	3
THM 351	Event Planning and Management	3
THM 381	Facilities Layout & Design	3

Note D

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

Code	Title	Credits
ACC 330	Accounting Systems	3
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 362	Investments	3
BUS 363	Financial Institutions	3
BUS 368	Human Resources Management	3
BUS 420	Organizational Change & Development	3
BUS 367	Consumer Behavior	3
BUS 413	Principles of Retailing	3
BUS 390	Business Database Management	3

Note E

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

Code	Title	Credits
ACC 301	Intermediate Accounting I	3
ACC 315	Federal Income Tax I	3
ACC 330	Accounting Systems	3
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 417	International Business	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 476	Operations Management	3
BUS 395	Intro to Personal Financial Planning	3
BUS 368	Human Resources Management	3
BUS 390	Business Database Management	3
BUS 497	Marketing Research	3

Note F

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

Code	Title	Credits
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 465	Small Business Management	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 477	Franchising	3
BUS 370	Total Quality Management	3
BUS 435	Compensation	3
BUS 390	Business Database Management	3
BUS 421	Web Application Development E-Business	3
BUS 423	Decision Support & Data Mining	3
BUS 412	Marketing Management	3
BUS 413	Principles of Retailing	3
BUS 497	Marketing Research	3

Note G

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

Code	Title	Credits
ACC 301	Intermediate Accounting I	3
ACC 302	Intermediate Accounting II	3
ACC 330	Accounting Systems	3
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 465	Small Business Management	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 362	Investments	3
BUS 368	Human Resources Management	3
BUS 415	International Management	3
BUS 374	Programming in Visual Basic	3

BUS 387	Introduction to Entrepreneurship	3
BUS 497	Marketing Research	3

Note H

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

Code	Title	Credits
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 465	Small Business Management	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 477	Franchising	3
BUS 362	Investments	3
BUS 363	Financial Institutions	3
BUS 368	Human Resources Management	3
BUS 410	Leadership & Diversity in Management	3
BUS 390	Business Database Management	3
BUS 411	Salesmanship	3
BUS 414	Advertising	3

Note P

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

Code	Title	Credits
THM 381	Facilities Layout & Design	3
THM 401	Club and Resort Management	3
THM 481	Hospitality Property Management	3
THM 351	Event Planning and Management	3
THM 402	Management by Menu	3

Note Q

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

Code	Title	Credits
BUS 387	Introduction to Entrepreneurship	3
BUS 465	Small Business Management	3
BUS 477	Franchising	3
THM 494	Restaurant Franchising	3

Note R

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

Code	Title	Credits
THM 391	Internship in Hospitality	3
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 413	Principles of Retailing	3
BUS 412	Marketing Management	3
BUS 367	Consumer Behavior	3

Note S

Code	Title	Credits
BUS 417	International Business	3
BUS 415	International Management	3
BUS 416	International Marketing	3
SOC 325	Sociology of Business/Internationalism	3
BUS 390	Business Database Management	3
BUS 375	Management Information Systems-Ecommerce	3

Bachelor of Science in Business - Management Information Systems, Concentration

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Business Core	60
Major Requirements	15
Other Requirements	6
Total Credit Hours	121

Curriculum

First Year		Credits
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
BUS 175	Introduction to Business & Entrepreneurship	3
BIO 100	Biological Science	3
SCI 101	Physical Science for Non-Science Majors	3
XXX XXX	Select one Science Lab Elective (Note A) (p. 71)	1
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
BUS 284	Advanced Microcomputing	3
MTH 131	Pre-Calculus for Business Majors	3
MTH 132	Calculus for Business Majors	3
Select one of the following:		1
PED 100	Fundamentals of Fitness for Life	
PED 101	Modified Physical Education	
Modified PED		
Credits		30

Second Year		Credits
SEM 201	Spartan Seminar 201	1
ACC 201	Elementary Accounting I	3
ACC 202	Elem Accounting II	3
BUS 281	Legal Environment for Business	3
BUS 270	Business Statistics	3
ECN 211	Principles of Econ	3
ECN 212	Principles of Econ	3
ENG 210	Practical English Grammar	3
PSY 210	Introduction to Psychology	3
ENG 285	Public Speaking	3
XXX XXX	Select one Humanities Elective (See Note B) (p. 71)	3
Credits		31

Third Year		Credits
BUS 330	Business Communication	3
BUS 376	Statistics & Quantitative Methods	3
BUS 387	Introduction to Entrepreneurship	3
BUS 360	Corporate Finance	3

BUS 375	Management Information Syst & E-Commerce	3
BUS 390	Business Database Management	3
BUS 365	Organizational Behavior & Theory	3
BUS 366	Principles of Marketing	3
BUS XXX	Business Elective (See Note C) (p. 72)	3
BUS 391	Introduction to Data Analytics & Big Data	3
Credits		30

Fourth Year

BUS 431	Information Systems Analysis and Design	3
BUS 421	Web Application Development for E-Business	3
BUS 419	Networking	3
BUS 423	Decision Support & Expert Systems	3
BUS 476	Operations Management	3
BUS 478	Strategic Management	3
BUS XXX	Business Elective (See Note C) (p. 72)	9
XXX XXX	Global/Cultural & Language Elective (See Note B) (p. 71)	3
Credits		30
Total Credits		121

List of Notes for Business Degree Programs

Note A

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

Code	Title	Credits
BIO 100L	Biological Science Lab	1
SCI 101L	Physical Science Laboratory	1

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.

Code	Title	Credits
ENG 207	Introduction to World Literature	3
ENG 383	African American Literature	3
FIA 201	Basic Art Appreciation	3
GEO 141	World Regional Geography	3
GEO 336	Political Geography	3
GEO 337	Geography of Africa	3
HIS 335	African American History	3
HIS 336	African American History Since 1865	3
HIS 361	Readings in Latin American History	3
HIS 365	Caribbean History	3
HIS 370	Early African History/Cultures to 1600	3
HIS 371	African History/Cultures 1600-PRESENT	3
HIS 446	Colonial Latin American	3
HIS 448	Slavery in the Atlantic Basin	3
HUM 210	Humanities	3
HUM 211	Humanities	3

MUS 301	Music Appreciation	3
MUS 234	African American Music	3
POS 315	African American Politics	3
POS 323	Comparative Government	3
POS 360	International Relations, International Relations	3
POS 463	Politics of African Nations	3
POS 468	Survey Contemporary Governments of Asia	3
PSY 340	Psychology of the African American	3
SOC 101	Introduction to the Social Sciences	3
SOC 237	Racial & Ethnic Minorities	3
SOC 325	Sociology of Business/Internationalism	3
FRN 111/112	Elementary French I	3
SPN 111/112	Elementary Spanish I	3

Note C

A student in the **Accountancy major** needs to take one (3 credit hours) of the following as Business Elective course.

Code	Title	Credits
ACC 316	Federal Income Tax II	3
BUS 396	Intro to Blockchain: Foundations	3
BUS 423	Decision Support & Data Mining	3
BUS 363	Financial Institutions	3
BUS 390	Business Database Management	3
BUS 431	Information Systems Analysis and Design	3

While a student in the **Business concentration** needs to take four (12 credit hours) of the following courses towards Business Electives.

Code	Title	Credits
ACC 301	Intermediate Accounting I	3
ACC 315	Federal Income Tax I	3
BUS 350	The Ethics of Management	3
BUS 363	Financial Institutions	3
BUS 367	Consumer Behavior	3
BUS 390	Business Database Management	3
BUS 396	Intro to Blockchain: Foundations	3
BUS 413	Principles of Retailing	3
BUS 415	International Management	3
BUS 431	Information Systems Analysis and Design	3
BUS 465	Small Business Management	3
BUS 477	Franchising	3
THM 351	Event Planning and Management	3
THM 381	Facilities Layout & Design	3

Note D

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

Code	Title	Credits
ACC 330	Accounting Systems	3
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3

BUS 362	Investments	3
BUS 363	Financial Institutions	3
BUS 368	Human Resources Management	3
BUS 420	Organizational Change & Development	3
BUS 367	Consumer Behavior	3
BUS 413	Principles of Retailing	3
BUS 390	Business Database Management	3

Note E

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

Code	Title	Credits
ACC 301	Intermediate Accounting I	3
ACC 315	Federal Income Tax I	3
ACC 330	Accounting Systems	3
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 417	International Business	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 476	Operations Management	3
BUS 395	Intro to Personal Financial Planning	3
BUS 368	Human Resources Management	3
BUS 390	Business Database Management	3
BUS 497	Marketing Research	3

Note F

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

Code	Title	Credits
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 465	Small Business Management	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 477	Franchising	3
BUS 370	Total Quality Management	3
BUS 435	Compensation	3
BUS 390	Business Database Management	3
BUS 421	Web Application Development E-Business	3
BUS 423	Decision Support & Data Mining	3
BUS 412	Marketing Management	3
BUS 413	Principles of Retailing	3
BUS 497	Marketing Research	3

Note G

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

Code	Title	Credits
ACC 301	Intermediate Accounting I	3
ACC 302	Intermediate Accounting II	3

ACC 330	Accounting Systems	3
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 465	Small Business Management	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 362	Investments	3
BUS 368	Human Resources Management	3
BUS 415	International Management	3
BUS 374	Programming in Visual Basic	3
BUS 387	Introduction to Entrepreneurship	3
BUS 497	Marketing Research	3

Note H

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

Code	Title	Credits
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 465	Small Business Management	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 477	Franchising	3
BUS 362	Investments	3
BUS 363	Financial Institutions	3
BUS 368	Human Resources Management	3
BUS 410	Leadership & Diversity in Management	3
BUS 390	Business Database Management	3
BUS 411	Salesmanship	3
BUS 414	Advertising	3

Note P

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

Code	Title	Credits
THM 381	Facilities Layout & Design	3
THM 401	Club and Resort Management	3
THM 481	Hospitality Property Management	3
THM 351	Event Planning and Management	3
THM 402	Management by Menu	3

Note Q

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

Code	Title	Credits
BUS 387	Introduction to Entrepreneurship	3
BUS 465	Small Business Management	3
BUS 477	Franchising	3
THM 494	Restaurant Franchising	3

Note R

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

Code	Title	Credits
THM 391	Internship in Hospitality	3
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 413	Principles of Retailing	3
BUS 412	Marketing Management	3
BUS 367	Consumer Behavior	3

Note S

Code	Title	Credits
BUS 417	International Business	3
BUS 415	International Management	3
BUS 416	International Marketing	3
SOC 325	Sociology of Business/Internationalism	3
BUS 390	Business Database Management	3
BUS 375	Management Information Systems-Ecommerce	3

Bachelor of Science in Business - Management, Concentration

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Business Core	48
Business Electives	12
Major Requirements	15
Other Requirements	6
Total Credit Hours	121

Curriculum

First Year		Credits
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
BUS 175	Introduction to Business & Entrepreneurship	3
BIO 100	Biological Science	3
SCI 101	Physical Science for Non-Science Majors	3
XXX XXX	Select one Science Lab Elective (Note A) (p. 74)	1
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
BUS 284	Advanced Microcomputing	3
MTH 131	Pre-Calculus for Business Majors	3
MTH 132	Calculus for Business Majors	3
Select one of the following:		1
PED 100	Fundametals of Fitness for Life	
PED 101	Modified Physical Education	
Modified PED		

Credits

30

Second Year

SEM 201	Spartan Seminar 201	1
ACC 201	Elementary Accounting I	3
ACC 202	Elem Accounting II	3
BUS 281	Legal Environment for Business	3
BUS 270	Business Statistics	3
ECN 211	Principles of Econ	3
ECN 212	Principles of Econ	3
ENG 210	Practical English Grammar	3
PSY 210	Introduction to Psychology	3
ENG 285	Public Speaking	3
XXX XXX	Humanities Elective (See Note B) (p. 74)	3

Credits **31**

Third Year

BUS 330	Business Communication	3
BUS 376	Statistics & Quantitative Methods	3
BUS 387	Introduction to Entrepreneurship	3
BUS 360	Corporate Finance	3
BUS 375	Management Information Syst & E-Commerce	3
BUS 350	The Ethics of Management	3
BUS 365	Organizational Behavior & Theory	3
BUS 368	Human Resources Management	3
BUS 366	Principles of Marketing	3
BUS 391	Introduction to Data Analytics & Big Data	3

Credits **30**

Fourth Year

BUS XXX	Business Elective (See Note C) (p. 74)	3
BUS 410	Leadership & Diversity in Management	3
BUS 415	International Management	3
BUS 420	Organizational Change & Development	3
BUS 476	Operations Management	3
BUS 478	Strategic Management	3
XXX XXX	Global/Cultural & Language Elective (See Note B) (p. 74)	3
BUS XXX	Business Elective (See Note C) (p. 74)	9

Credits **30**

Total Credits **121**

List of Notes for Business Degree Programs

Note A

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

Code	Title	Credits
BIO 100L	Biological Science Lab	1
SCI 101L	Physical Science Laboratory	1

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.

Code	Title	Credits
ENG 207	Introduction to World Literature	3
ENG 383	African American Literature	3
FIA 201	Basic Art Appreciation	3
GEO 141	World Regional Geography	3
GEO 336	Political Geography	3
GEO 337	Geography of Africa	3
HIS 335	African American History	3
HIS 336	African American History Since 1865	3
HIS 361	Readings in Latin American History	3
HIS 365	Caribbean History	3
HIS 370	Early African History/Cultures to 1600	3
HIS 371	African History/Cultures 1600-PRESENT	3
HIS 446	Colonial Latin American	3
HIS 448	Slavery in the Atlantic Basin	3
HUM 210	Humanities	3
HUM 211	Humanities	3
MUS 301	Music Appreciation	3
MUS 234	African American Music	3
POS 315	African American Politics	3
POS 323	Comparative Government	3
POS 360	International Relations, International Relations	3
POS 463	Politics of African Nations	3
POS 468	Survey Contemporary Governments of Asia	3
PSY 340	Psychology of the African American	3
SOC 101	Introduction to the Social Sciences	3
SOC 237	Racial & Ethnic Minorities	3
SOC 325	Sociology of Business/Internationalism	3
FRN 111/112	Elementary French I	3
SPN 111/112	Elementary Spanish I	3

Note C

A student in the **Accountancy major** needs to take one (3 credit hours) of the following as Business Elective course.

Code	Title	Credits
ACC 316	Federal Income Tax II	3
BUS 396	Intro to Blockchain: Foundations	3
BUS 423	Decision Support & Data Mining	3
BUS 363	Financial Institutions	3
BUS 390	Business Database Management	3
BUS 431	Information Systems Analysis and Design	3

While a student in the **Business concentration** needs to take four (12 credit hours) of the following courses towards Business Electives.

Code	Title	Credits
ACC 301	Intermediate Accounting I	3
ACC 315	Federal Income Tax I	3
BUS 350	The Ethics of Management	3
BUS 363	Financial Institutions	3
BUS 367	Consumer Behavior	3
BUS 390	Business Database Management	3

BUS 396	Intro to Blockchain: Foundations	3
BUS 413	Principles of Retailing	3
BUS 415	International Management	3
BUS 431	Information Systems Analysis and Design	3
BUS 465	Small Business Management	3
BUS 477	Franchising	3
THM 351	Event Planning and Management	3
THM 381	Facilities Layout & Design	3

Note D

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

Code	Title	Credits
ACC 330	Accounting Systems	3
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 362	Investments	3
BUS 363	Financial Institutions	3
BUS 368	Human Resources Management	3
BUS 420	Organizational Change & Development	3
BUS 367	Consumer Behavior	3
BUS 413	Principles of Retailing	3
BUS 390	Business Database Management	3

Note E

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

Code	Title	Credits
ACC 301	Intermediate Accounting I	3
ACC 315	Federal Income Tax I	3
ACC 330	Accounting Systems	3
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 417	International Business	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 476	Operations Management	3
BUS 395	Intro to Personal Financial Planning	3
BUS 368	Human Resources Management	3
BUS 390	Business Database Management	3
BUS 497	Marketing Research	3

Note F

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

Code	Title	Credits
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 465	Small Business Management	3
BUS 469	Entrepreneurship-In-Residence	3

BUS 477	Franchising	3
BUS 370	Total Quality Management	3
BUS 435	Compensation	3
BUS 390	Business Database Management	3
BUS 421	Web Application Development E-Business	3
BUS 423	Decision Support & Data Mining	3
BUS 412	Marketing Management	3
BUS 413	Principles of Retailing	3
BUS 497	Marketing Research	3

Note G

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

Code	Title	Credits
ACC 301	Intermediate Accounting I	3
ACC 302	Intermediate Accounting II	3
ACC 330	Accounting Systems	3
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 465	Small Business Management	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 362	Investments	3
BUS 368	Human Resources Management	3
BUS 415	International Management	3
BUS 374	Programming in Visual Basic	3
BUS 387	Introduction to Entrepreneurship	3
BUS 497	Marketing Research	3

Note H

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

Code	Title	Credits
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 465	Small Business Management	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 477	Franchising	3
BUS 362	Investments	3
BUS 363	Financial Institutions	3
BUS 368	Human Resources Management	3
BUS 410	Leadership & Diversity in Management	3
BUS 390	Business Database Management	3
BUS 411	Salesmanship	3
BUS 414	Advertising	3

Note P

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

Code	Title	Credits
THM 381	Facilities Layout & Design	3
THM 401	Club and Resort Management	3
THM 481	Hospitality Property Management	3
THM 351	Event Planning and Management	3
THM 402	Management by Menu	3

Note Q

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

Code	Title	Credits
BUS 387	Introduction to Entrepreneurship	3
BUS 465	Small Business Management	3
BUS 477	Franchising	3
THM 494	Restaurant Franchising	3

Note R

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

Code	Title	Credits
THM 391	Internship in Hospitality	3
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 413	Principles of Retailing	3
BUS 412	Marketing Management	3
BUS 367	Consumer Behavior	3

Note S

Code	Title	Credits
BUS 417	International Business	3
BUS 415	International Management	3
BUS 416	International Marketing	3
SOC 325	Sociology of Business/Internationalism	3
BUS 390	Business Database Management	3
BUS 375	Management Information Systems-Ecommerce	3

Bachelor of Science in Business - Marketing, Concentration

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Business Core	48
Business Electives	12
Major Requirements	15
Other Requirements	6
Total Credit Hours	121

Curriculum

First Year	Credits
SEM 101 & SEM 102	2
Spartan Seminar 101 and Spartan Seminar 102	

BUS 175	Introduction to Business & Entrepreneurship	3
BIO 100	Biological Science	3
SCI 101	Physical Science for Non-Science Majors	3
XXX XXX	Select one Science Lab Elective (Note A) (p. 77)	1
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
BUS 284	Advanced Microcomputing	3
MTH 131	Pre-Calculus for Business Majors	3
MTH 132	Calculus for Business Majors	3
Select one of the following:		1
PED 100	Fundamentals of Fitness for Life	
PED 101	Modified Physical Education	
Modified PED		

Credits 30

Second Year

SEM 201	Spartan Seminar 201	1
ACC 201	Elementary Accounting I	3
ACC 202	Elem Accounting II	3
BUS 281	Legal Environment for Business	3
BUS 270	Business Statistics	3
ECN 211	Principles of Econ	3
ECN 212	Principles of Econ	3
ENG 210	Practical English Grammar	3
PSY 210	Introduction to Psychology	3
ENG 285	Public Speaking	3
Humanities Elective (See Note B) (p. 77)		3

Credits 31

Third Year

BUS 330	Business Communication	3
BUS 376	Statistics & Quantitative Methods	3
BUS 387	Introduction to Entrepreneurship	3
BUS 360	Corporate Finance	3
BUS 375	Management Information Syst & E-Commerce	3
BUS 365	Organizational Behavior & Theory	3
BUS 366	Principles of Marketing	3
BUS 367	Consumer Behavior	3
BUS XXX	Business Elective (See Note C) (p. 77)	3
BUS 391	Introduction to Data Analytics & Big Data	3

Credits 30

Fourth Year

BUS 476	Operations Management	3
BUS 478	Strategic Management	3
BUS 412	Marketing Management	3
BUS 413	Principles of Retailing	3
BUS 416	International Marketing	3
BUS 497	Marketing Research	3
BUS XXX	Business Elective (See Note C) (p. 77)	9

XXX XXX	Global/Cultural & Language Elective (See Note B) (p. 77)	3
Credits		30
Total Credits		121

List of Notes for Business Degree Programs

Note A

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

Code	Title	Credits
BIO 100L	Biological Science Lab	1
SCI 101L	Physical Science Laboratory	1

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.

Code	Title	Credits
ENG 207	Introduction to World Literature	3
ENG 383	African American Literature	3
FIA 201	Basic Art Appreciation	3
GEO 141	World Regional Geography	3
GEO 336	Political Geography	3
GEO 337	Geography of Africa	3
HIS 335	African American History	3
HIS 336	African American History Since 1865	3
HIS 361	Readings in Latin American History	3
HIS 365	Caribbean History	3
HIS 370	Early African History/Cultures to 1600	3
HIS 371	African History/Cultures 1600-PRESENT	3
HIS 446	Colonial Latin American	3
HIS 448	Slavery in the Atlantic Basin	3
HUM 210	Humanities	3
HUM 211	Humanities	3
MUS 301	Music Appreciation	3
MUS 234	African American Music	3
POS 315	African American Politics	3
POS 323	Comparative Government	3
POS 360	International Relations, International Relations	3
POS 463	Politics of African Nations	3
POS 468	Survey Contemporary Governments of Asia	3
PSY 340	Psychology of the African American	3
SOC 101	Introduction to the Social Sciences	3
SOC 237	Racial & Ethnic Minorities	3
SOC 325	Sociology of Business/Internationalism	3
FRN 111/112	Elementary French I	3
SPN 111/112	Elementary Spanish I	3

Note C

A student in the **Accountancy major** needs to take one (3 credit hours) of the following as Business Elective course.

Code	Title	Credits
ACC 316	Federal Income Tax II	3
BUS 396	Intro to Blockchain: Foundations	3
BUS 423	Decision Support & Data Mining	3
BUS 363	Financial Institutions	3
BUS 390	Business Database Management	3
BUS 431	Information Systems Analysis and Design	3

While a student in the **Business concentration** needs to take four (12 credit hours) of the following courses towards Business Electives.

Code	Title	Credits
ACC 301	Intermediate Accounting I	3
ACC 315	Federal Income Tax I	3
BUS 350	The Ethics of Management	3
BUS 363	Financial Institutions	3
BUS 367	Consumer Behavior	3
BUS 390	Business Database Management	3
BUS 396	Intro to Blockchain: Foundations	3
BUS 413	Principles of Retailing	3
BUS 415	International Management	3
BUS 431	Information Systems Analysis and Design	3
BUS 465	Small Business Management	3
BUS 477	Franchising	3
THM 351	Event Planning and Management	3
THM 381	Facilities Layout & Design	3

Note D

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

Code	Title	Credits
ACC 330	Accounting Systems	3
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 362	Investments	3
BUS 363	Financial Institutions	3
BUS 368	Human Resources Management	3
BUS 420	Organizational Change & Development	3
BUS 367	Consumer Behavior	3
BUS 413	Principles of Retailing	3
BUS 390	Business Database Management	3

Note E

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

Code	Title	Credits
ACC 301	Intermediate Accounting I	3
ACC 315	Federal Income Tax I	3
ACC 330	Accounting Systems	3

BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 417	International Business	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 476	Operations Management	3
BUS 395	Intro to Personal Financial Planning	3
BUS 368	Human Resources Management	3
BUS 390	Business Database Management	3
BUS 497	Marketing Research	3

Note F

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

Code	Title	Credits
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 465	Small Business Management	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 477	Franchising	3
BUS 370	Total Quality Management	3
BUS 435	Compensation	3
BUS 390	Business Database Management	3
BUS 421	Web Application Development E-Business	3
BUS 423	Decision Support & Data Mining	3
BUS 412	Marketing Management	3
BUS 413	Principles of Retailing	3
BUS 497	Marketing Research	3

Note G

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

Code	Title	Credits
ACC 301	Intermediate Accounting I	3
ACC 302	Intermediate Accounting II	3
ACC 330	Accounting Systems	3
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 465	Small Business Management	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 362	Investments	3
BUS 368	Human Resources Management	3
BUS 415	International Management	3
BUS 374	Programming in Visual Basic	3
BUS 387	Introduction to Entrepreneurship	3
BUS 497	Marketing Research	3

Note H

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

Code	Title	Credits
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 465	Small Business Management	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 477	Franchising	3
BUS 362	Investments	3
BUS 363	Financial Institutions	3
BUS 368	Human Resources Management	3
BUS 410	Leadership & Diversity in Management	3
BUS 390	Business Database Management	3
BUS 411	Salesmanship	3
BUS 414	Advertising	3

Note P

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

Code	Title	Credits
THM 381	Facilities Layout & Design	3
THM 401	Club and Resort Management	3
THM 481	Hospitality Property Management	3
THM 351	Event Planning and Management	3
THM 402	Management by Menu	3

Note Q

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

Code	Title	Credits
BUS 387	Introduction to Entrepreneurship	3
BUS 465	Small Business Management	3
BUS 477	Franchising	3
THM 494	Restaurant Franchising	3

Note R

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

Code	Title	Credits
THM 391	Internship in Hospitality	3
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 413	Principles of Retailing	3
BUS 412	Marketing Management	3
BUS 367	Consumer Behavior	3

Note S

Code	Title	Credits
BUS 417	International Business	3
BUS 415	International Management	3

BUS 416	International Marketing	3
SOC 325	Sociology of Business/Internationalism	3
BUS 390	Business Database Management	3
BUS 375	Management Information Systems-Ecommerce	3

Bachelor of Science in Tourism & Hospitality Management – On Campus & Online

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Business Core	21
Business Electives	3
Major Requirements	54
Other Requirements	3
Total Credit Hours	121

Curriculum

First Year		Credits
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
BUS 175	Introduction to Business & Entrepreneurship	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 Hospitality Industry	3
THM 115	Introduction to Tourism & Hospitality	3
MTH 103	Mathematics in General Education	3
BIO 100	Biological Science	3
SCI 101	Physical Science for Non-Science Majors	3
Select one Science Lab Elective (Note A) (p. 79)		1
Credits		30

Second Year		Credits
SEM 201	Spartan Seminar 201	1
ECN 200	Basic Principles of Economics	3
BUS 284	Advanced Microcomputing	3
THM 212	Fundamentals of Nutrition for Food Service	3
THM 205	Sanitation Principles	3
Select one Tourism and Hospitality Management Elective (Note P) (p. 81)		3
ACC 201	Elementary Accounting I	3
ACC 202	Elem Accounting II	3
ENG 285	Public Speaking	3
PSY 210	Introduction to Psychology	3
MTH 105	Intermediate Algebra	3
Credits		31

Third Year		Credits
BUS 281	Legal Environment for Business	3
BUS 330	Business Communication	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	Organizational Behavior & Theory	3
BUS 366	Principles of Marketing	3
Select one Global/Cultural and Language Elective (Note B) (p. 79)		3
Select one Tourism and Hospitality Management Elective (Note P) (p. 81)		3
Credits		30

Fourth Year		Credits
THM 280	Dining Rm & Beverage Management Operations	3
THM 440	Hospitality Sales and Advertising	3
THM 331/ MTH 105	Food, Beverage & Labor Cost Control	3
THM 300	Purchasing for the Hospitality Industry	3
THM 490	Sr Project	3
THM 462	Hospitality Human Resource Management	3
Select one Hospitality Franchising Elective (Note Q) (p. 81)		3
Select one Work Experience Elective (Note R) (p. 81)		3
Select one Information Systems/International Course Elective (Note S) (p. 81)		3
Select one Global/Cultural and Language Elective (Note B) (p. 79)		3
Credits		30
Total Credits		121

List of Notes for Business Degree Programs

Note A

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

Code	Title	Credits
BIO 100L	Biological Science Lab	1
SCI 101L	Physical Science Laboratory	1

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.

Code	Title	Credits
ENG 207	Introduction to World Literature	3
ENG 383	African American Literature	3
FIA 201	Basic Art Appreciation	3
GEO 141	World Regional Geography	3
GEO 336	Political Geography	3
GEO 337	Geography of Africa	3
HIS 335	African American History	3
HIS 336	African American History Since 1865	3
HIS 361	Readings in Latin American History	3
HIS 365	Caribbean History	3

HIS 370	Early African History/Cultures to 1600	3
HIS 371	African History/Cultures 1600-PRESENT	3
HIS 446	Colonial Latin American	3
HIS 448	Slavery in the Atlantic Basin	3
HUM 210	Humanities	3
HUM 211	Humanities	3
MUS 301	Music Appreciation	3
MUS 234	African American Music	3
POS 315	African American Politics	3
POS 323	Comparative Government	3
POS 360	International Relations,International Relations	3
POS 463	Politics of African Nations	3
POS 468	Survey Contemporary Governments of Asia	3
PSY 340	Psychology of the African American	3
SOC 101	Introduction to the Social Sciences	3
SOC 237	Racial & Ethnic Minorities	3
SOC 325	Sociology of Business/Internationalism	3
FRN 111/112	Elementary French I	3
SPN 111/112	Elementary Spanish I	3

Note C

A student in the **Accountancy major** needs to take one (3 credit hours) of the following as Business Elective course.

Code	Title	Credits
ACC 316	Federal Income Tax II	3
BUS 396	Intro to Blockchain: Foundations	3
BUS 423	Decision Support & Data Mining	3
BUS 363	Financial Institutions	3
BUS 390	Business Database Management	3
BUS 431	Information Systems Analysis and Design	3

While a student in the **Business concentration** needs to take four (12 credit hours) of the following courses towards Business Electives.

Code	Title	Credits
ACC 301	Intermediate Accounting I	3
ACC 315	Federal Income Tax I	3
BUS 350	The Ethics of Management	3
BUS 363	Financial Institutions	3
BUS 367	Consumer Behavior	3
BUS 390	Business Database Management	3
BUS 396	Intro to Blockchain: Foundations	3
BUS 413	Principles of Retailing	3
BUS 415	International Management	3
BUS 431	Information Systems Analysis and Design	3
BUS 465	Small Business Management	3
BUS 477	Franchising	3
THM 351	Event Planning and Management	3
THM 381	Facilities Layout & Design	3

Note D

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

Code	Title	Credits
ACC 330	Accounting Systems	3
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 362	Investments	3
BUS 363	Financial Institutions	3
BUS 368	Human Resources Management	3
BUS 420	Organizational Change & Development	3
BUS 367	Consumer Behavior	3
BUS 413	Principles of Retailing	3
BUS 390	Business Database Management	3

Note E

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

Code	Title	Credits
ACC 301	Intermediate Accounting I	3
ACC 315	Federal Income Tax I	3
ACC 330	Accounting Systems	3
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 417	International Business	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 476	Operations Management	3
BUS 395	Intro to Personal Financial Planning	3
BUS 368	Human Resources Management	3
BUS 390	Business Database Management	3
BUS 497	Marketing Research	3

Note F

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

Code	Title	Credits
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 465	Small Business Management	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 477	Franchising	3
BUS 370	Total Quality Management	3
BUS 435	Compensation	3
BUS 390	Business Database Management	3
BUS 421	Web Application Development E-Business	3
BUS 423	Decision Support & Data Mining	3
BUS 412	Marketing Management	3

BUS 413	Principles of Retailing	3
BUS 497	Marketing Research	3

Note G

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

Code	Title	Credits
ACC 301	Intermediate Accounting I	3
ACC 302	Intermediate Accounting II	3
ACC 330	Accounting Systems	3
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 465	Small Business Management	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 362	Investments	3
BUS 368	Human Resources Management	3
BUS 415	International Management	3
BUS 374	Programming in Visual Basic	3
BUS 387	Introduction to Entrepreneurship	3
BUS 497	Marketing Research	3

Note H

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

Code	Title	Credits
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 493	Special Topics in Business	3
BUS 465	Small Business Management	3
BUS 469	Entrepreneurship-In-Residence	3
BUS 477	Franchising	3
BUS 362	Investments	3
BUS 363	Financial Institutions	3
BUS 368	Human Resources Management	3
BUS 410	Leadership & Diversity in Management	3
BUS 390	Business Database Management	3
BUS 411	Salesmanship	3
BUS 414	Advertising	3

Note P

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

Code	Title	Credits
THM 381	Facilities Layout & Design	3
THM 401	Club and Resort Management	3
THM 481	Hospitality Property Management	3
THM 351	Event Planning and Management	3
THM 402	Management by Menu	3

Note Q

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

Code	Title	Credits
BUS 387	Introduction to Entrepreneurship	3
BUS 465	Small Business Management	3
BUS 477	Franchising	3
THM 494	Restaurant Franchising	3

Note R

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

Code	Title	Credits
THM 391	Internship in Hospitality	3
BUS 300	Internship	3
BUS 400	Independent Study	3
BUS 413	Principles of Retailing	3
BUS 412	Marketing Management	3
BUS 367	Consumer Behavior	3

Note S

Code	Title	Credits
BUS 417	International Business	3
BUS 415	International Management	3
BUS 416	International Marketing	3
SOC 325	Sociology of Business/Internationalism	3
BUS 390	Business Database Management	3
BUS 375	Management Information Systems-Ecommerce	3

SCHOOL OF EDUCATION

Dr. Denelle Wallace-Alexander, Dean
(757) 823-8701

“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:

1. To contribute to the knowledge base in the field of educational theory and practice in a multi-cultural, multi-lingual, multi-racial world.
2. To provide leadership in involving public schools, universities and communities in collaborative educational efforts.
3. 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 Schools

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/Special Education
- Department of Health, Physical Education and Exercise Science
- Department of Secondary Education and School Leadership
- The Office of Clinical Experiences and Student Services
- 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 teacher licensure from the Virginia Department of Education 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.

School of Education Departments

- Early Childhood, Elementary and Special Education (p. 84)
 - Bachelor of Science Education in Elementary Education (p. 85)
 - Bachelor of Science Education in Special Education and Teaching (p. 86)
 - Early Childhood Education, Child Care (Non-Teaching Certification Option), Concentration (p. 87)
- Health, Physical Education and Exercise Science (p. 87)
 - Bachelor of Science in Exercise Science - Physical Education and Health Education Concentration (p. 89)
 - Bachelor of Science in Exercise Science - Health Fitness Instructor Concentration (p. 91)

- Bachelor of Science in Exercise Science - Kinesiotherapy Concentration (p. 93)
- Bachelor of Science in Exercise Science - Health Wellness and Rehabilitation Concentration (p. 94)
- Secondary Education and School Leadership (p. 96)
- The Office of Clinical Experiences and Student Services (p. 99)
- **The certificate program in Paraprofessional Education is undergoing revisions.**

Early Childhood, Elementary and Special Education

Dr. Kiang Thomas
Department Chair
(757) 823-2700

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 Science Education in Elementary Education K-6
- Bachelor of Science Education in Special Education K-12
- Bachelor of Science in Early Childhood Development – Child Care Non-teaching Option (NCOP)

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> (<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:

1. English (must include composition, oral communication, and literature): 12 semester hours;
2. Mathematics: 12 semester hours;
3. Science (including a laboratory course): 8 semester hours in at least two science disciplines;
4. History (must include American history): 9 semester hours;
5. Social science (must include geography and economics): 6 semester hours; and
6. 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 Praxis II (if applicable to program), the Virginia Communication and Literacy Assessment (VCLA), and the Reading for Virginia Educators (RVE).

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. Must be passed for admission to the program.

RVE is a test of students' knowledge of reading instruction. Must be passed for admission to the program, if applicable.

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 test results to the program advisor for admission to teacher education and copies of all 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." The Examinee Score Report is sent to the student by ETS, and it provides detailed score information that the Office of Clinical Experiences and Student Services (OCESS) 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 Office of Clinical Experiences and Student Services' (OCESS) webpage.

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 VCLA exam and RVE, if applicable.

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 Office of Clinical Experiences and Student Services' (OCESS) webpage <https://www.nsu.edu/education/cpd/index> (<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 VCLA 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 in the first semester of the freshman year and no later than the first semester of the sophomore year.

The RVE should be taken in the first semester of the freshman year and no later than the first semester of the sophomore year, if applicable. It is required for licensure.

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 are 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 Office of Clinical Experiences and Student Services' (OCESS) webpage.

Early Childhood, Elementary and Special Education Programs

- Bachelor of Science Education in Elementary Education (p. 85)
- Bachelor of Science Education in Special Education and Teaching (p. 86)
- Early Childhood Education, Child Care (Non-Teaching Certification Option), Concentration (p. 87)

- The certificate program in Paraprofessional Education is undergoing revisions.

Bachelor of Science Education in Elementary Education

The Bachelor of Science Education degree in Elementary Education program provides students the opportunity to develop the required knowledge, skills and dispositions to obtain licensure to teach in PreK-6th grade school settings. The broad curriculum is embedded with research-based teaching practices in the reading, language arts, mathematics, science and social studies disciplines. The program focuses on equipping preservice teachers with skills and professional experiences to meet the needs of diverse PreK-6 students. Information on program admittance and graduation requirements, field experiences, state license standards, and passing scores on Praxis and State Assessments is posted on the department's website.

Students are prepared to meet the Virginia Licensure Regulations for School Personnel and the Council for the Accreditation of Education Preparation (CAEP) Standards and Assessments, including passing the RVE, VCLA, and Praxis Subject Assessments.

Summary of Degree Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	42
Electives	9
Other Requirements	29
Total Credit Hours	120

Curriculum

Course	Title	Credits
First Year		
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
ENG 101	College English I	3
MTH 103	Mathematics in General Education	3
HED 100	Personal and Community Health	2
EED 233	Critical Thinking & Assessment Skills	3
PED 100	Fundamentals of Fitness for Life	1
HIS 102	United States History to 1865	3
ENG 102	College English II	3
MTH 105 or MTH 102	Intermediate Algebra or Essentials of Algebra	3-4
HIS 103	United States History Since 1865	3
CSC 150	Computer Literacy	3
BIO 100	Biological Science	3
BIO 100L	Biological Science Lab	1
Credits		33-34
Second Year		
SEM 201	Spartan Seminar 201	1
EDU 201	Foundations of Education	3
XXX XXX	General Elective	6
ENG 285	Public Speaking	3
SCI 101 & 101L	Physical Science for Non-Science Majors and Physical Science Laboratory	4

EDU 202	Human Growth & Development	3
ENG 203	Advanced Communication Skills	3
XXX XXX	General Elective	3
PSY 210	Introduction to Psychology	3
Select one of the following courses:		3
ENG 207	Introduction to World Literature	
FIA 201	Basic Art Appreciation	
MUS 301	Music Appreciation	
Credits		32
Third Year		
FIA 370	African/African-American Art	3
SPE 321	Medical/Legal Aspects in Special Ed	3
EED 360	Curr & Instr for Primary Grades (*Common Assessment Administered)	3
EDU 381	Classroom and Behavior Management (**Level II Observation)	3
EED 450	Teaching Literacy in Elementary School	3
XXX XXX	General Electives ¹	6
INT 350	Trends & Issues in Diverse Populations	3
EDU 420	Education Technology	3
EED 461	Curr & Instr for Early School (Grades 4-6)	3
Credits		30
Fourth Year		
XXX XXX	General Elective	3
EED 490	Diagnostic Reading	3
EED 470	Mthds Tchng Social Studies in Elem Schl	3
EED 465	Mthds/Matrls Tchng Science/Math/Tech	3
EED 499	Directed Teaching and Seminar	12
Credits		24
Total Credits		119-120

Note: Students must pass Praxis I (or equivalent) and apply for admission to Teacher Education at the end of 60 hours.

Bachelor of Science Education in Special Education and Teaching

The Bachelor of Science Education Degree in Special Education and Teaching provides students the opportunity to develop the required knowledge, skills and dispositions to obtain licensure to teach in Special Education General Curriculum K-12 school settings or in community agencies. The broad curriculum is embedded with research-based teaching practices to address the diverse learning requirements and behavior challenges of students with mild disabilities special needs. Information on program admittance and graduation requirements, field experiences, state license standards, and passing scores on Praxis and State Assessments is posted on the department's website.

Students are prepared to meet the Virginia Licensure Regulations for School Personnel and the Council for the Accreditation of Education Preparation (CAEP) Standards and Assessments, including passing the Praxis RVE and VCLA Assessments.

Summary of Graduation Requirements

Subject Area	Credits
General Education Core	40
Major Requirements	50
Other Requirements	30
Total Credit Hours	120

Curriculum

First Year	Credits
SEM 101 Spartan Seminar 101 & SEM 102 and Spartan Seminar 102	2
ENG 101 College English I	3
MTH 103 Mathematics in General Education	3
HED 100 Personal and Community Health	2
PED 100 Fundamentals of Fitness for Life	1
EED 233 Critical Thinking and Assessment Skills	3
HIS 102 United States History to 1865 or HIS 103 or United States History Since 1865	3
ENG 102 College English II	3
MTH 102 Essentials of Algebra or MTH 105 or Intermediate Algebra	4
MTH 105 Intermediate Algebra	3
HIS 103 United States History Since 1865	3
CSC 150 Computer Literacy	3
BIO 100 Biological Science	3
BIO 100L Biological Science Lab	1
Credits	37

Second Year

SEM 201 Spartan Seminar 201	1
EDU 201 Foundations of Education	3
XXX XXX General Elective (See Advisor or Department Chair)	3
ENG 285 Public Speaking	3
SCI 101 Physical Science for Non-Science Majors	3
SCI 101L Physical Science Laboratory	1
ENG 207 Introduction to World Literature or FIA 201 or Basic Art Appreciation or MUS 301 or Music Appreciation	3
EDU 202 Human Growth & Development	3
ENG 203 Advanced Communication Skills or ENG 286 or Writing About Literary Texts	3
XXX XXX Elective (See Advisor or Department Chair)	3
SPE 321 Characteristics, Medical & Legal Aspects in Special Education	3
PED 365 Adapted Physical Education	3
Credits	32

Third Year

INT 350 Trends and Issues in Diverse Population	3
XXX XXX General Elective (See Advisor or Department Chair)	3
SPE 332 Undrstndg/Tchng Lrns w/MR	3
EDU 381 Classroom and Behavior Management	3
SPE 344 Teaching Reading to Exceptional Learners	3

XXX XXX	General Elective (See Advisor or Department Chair)	3
SPE 312	Educational Psychology & Behavior Management	3
SPE 345	Teaching Math to Execpt Learners	3-0
SPE 440	Collaboration Procedures	3
EDU 420	Education Technology	3
Credits		30-27
Fourth Year		
XXX XXX	General Elective (See Advisor or Department Chair)	3
EED 490	Diagnostic Reading	3
SPE 445	Transition Procedures	3
SPE 492	Assessments of Exceptional Students	3
EDU 499	Directed Teaching	12
Credits		24
Total Credits		123-120

Note: Students must pass PRAXIS I (or equivalent) and apply for admission to Teacher Education at the end of 60 hours.

Early Childhood Education, Child Care (Non-Teaching Certification Option), Concentration

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	38
Electives	8
Other Requirements	34
Total Credit Hours	120

Curriculum

First Year	Credits
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 I	3
HIS 103 United States History Since 1865	3
MTH 103 Mathematics in General Education	3
MTH 102 Essentials of Algebra or MTH 105 or Intermediate Algebra	3

PED 100	Fundamentals of Fitness for Life	1
SCI 101	Physical Science for Non-Science Majors	3
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
Credits		33
Second Year		
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 Since 1865	3
PSY 210	Introduction to Psychology	3
PSY 228	Developmental Psychology	3
EED 274	Study of Young Children	3
ENG 285	Public Speaking	3
Select one of the following:		3
ENG 383	African-American Literature, 1940-PRESENT	
FIA 370	African/Afro-American Art	
MUS 234	African-American Music	
SEM 201	Spartan Seminar 201	1
Credits		30

Third Year		
ECE 375	Children's Drama	3
ECS 300	Introduction to Elementary Special Education	3
ECE 224	Children's Literature for Ece	3
SOC 237	Racial & Ethnic Minorities	3
ECE 362	Mth/Mat of Instr in Math for Young	3
EED 233	Critical Thinking and Assessment Skills	3
ECE 370	Analyz Behav Chldr	3
SWK 327	Interviewing Techniques	3
XXX XXX	Electives	8
Credits		32

Fourth Year		
INT 350	Trends and Issues in Diverse Population	3
EED 450	Teaching Literacy in the Elementary School	3
ECE 420	Parent Education	3
ECE 460	Admn of Child & Family Programs	3
ECE 495	Practicum (Child Care Settings)	9
Credits		21
Total Credits		116

Students must make a grade of "C" or better in all courses.

Health, Physical Education and Exercise Science

Dr. Kathleen Thomas
Department Chair
(757) 823-8652

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

- Health, Wellness and Rehabilitation (HWR)
- Physical Education and Health Education (P/HE)
- Health Fitness Instructor (HFI)
- Kinesiotherapy (KT)

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 Health/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 Health Fitness Instructor (HFI) is trained to deliver fitness training in corporate settings, health spas, and in other areas of the sport and fitness industry.

The Certified Kinesiotherapist (KT) 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.

Health, Physical Education and Exercise Science Programs

- Bachelor of Science in Exercise Science - Physical Education and Health Education Concentration (p. 89)
- Bachelor of Science in Exercise Science - Health Fitness Instructor Concentration (p. 91)
- Bachelor of Science in Exercise Science - Kinesiotherapy Concentration (p. 93)
- Bachelor of Science in Exercise Science - Health Wellness and Rehabilitation Concentration (p. 94)

Bachelor of Science in Exercise Science - Physical Education and Health Education Concentration

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.

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> (<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.

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	53
Electives	0
Other Requirements	28
Total Credit Hours	121

Curriculum

First Year		Credits
BIO 100 & 100L	Biological Science and Biological Science 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
Select one of the following:		3
HIS 100	History of World Societies I	
HIS 101	Hist of Civilizat	
HIS 102	United States History to 1865	
HIS 103	United States History Since 1865	
MTH 103	Mathematics in General Education	3
PED 158 or PED 159	Fundamentals of Physical Education or Fundamentals of Physical Education	1
SOC 101	Introduction to the Social Sciences	3
PED 280	Introduction to Physical Education	
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
Credits		27
Second Year		
EDU 201	Foundations of Education	3
HED 442	General Safety Education	3
Select one of the following:		3
HUM 210	Humanities	
MUS 301	Music Appreciation	
FIA 201	Basic Art Appreciation	
PED 133	Beginning Swimming	1
PED 251	Modern Dance I	1
Select one of the following:		3
HRP 320	African American Health	
HIS 33X	Elective	
POS 315	African American Politics	
PSY 340	Psychology of the African-American	
SOC 237	Racial & Ethnic Minorities	
PED 261	Team Sports I: Invasion Games	1
PED 262	Team Sports II: Net/Wall & Striking/Fielding Games	1
PED 287 or BIO 165	Human Anatomy or Human Anatomy and Physiology	3
PED 287L or BIO 165L	Human Anatomy Laboratory or Human Anatomy and Physiology Laboratory	1
PED 288 or BIO 166	Human Physiology or Human Anatomy and Physiology	3
PED 288L or BIO 166L	Human Physiology Laboratory or Human Anatomy and Physiology Laboratory	1
PSY 228	Developmental Psychology	3
ENG 285	Public Speaking	3
SEM 201	Spartan Seminar 201	1
Credits		31
Third Year		
HED 368A	Cur/Meth Health Ed ¹	3
PED 271 or PED 272	Individual Sports or Cooperative and Target Games	1
PED 335	Techniques of Teaching Skills	2

PED 200	Beginning Fitness Though Weight Training	2
PED 356	Kinesiology	3
PED 357	Oranization & Administration	3
PED 362	Athletic Coaching and Officiating	2
PED 365	Adapted Physical Education	3
PED 450	Motor Learning	3
PED 369	Measurement and Evaluation	
PED 477	Physiology of Muscular Exercise	3
PED 358	Curriculum and Instructional Procedures	
Credits		25
Fourth Year		
PED 350	Curriculum & Instructional Procedures in Elementary HPE	
SED 405	Reading in the Content Area	3
PED 480	Principles of Physical Education	3
EDU 486	Human Growth and Development	3
EDU 381	Classroom and Behavior Management ¹	3
SED 499	Directed Teaching (internship) ¹	12
Credits		24
Total Credits		107

¹ 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.

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

Health Endorsement

Code	Title	Credits
FSN 110	The Science of Human Nutrition	3
PED 179	First Aid	2
PED 200 or PED 300	Beginning Fitness Though Weight Training Advanced Fitness Through Weight Training	2
HED 170	Personal and Community Health	3
HED 368A	Cur/Meth Health Ed	3
HED 442	General Safety Education	3
FSN 449	Nutrition in Sports & Fitness	3
Total Credits		19

Driver Education Endorsement

Enrollment requires completion of Requirements for admission to teacher education

Code	Title	Credits
PED 441	Driver Task Analysis	3
PED 444	Principles and Methods of Classroom and In-Car Instruction	3
PED 179	First Aid (or Red Cross Equivalent) ¹	2
Total Credits		8

¹ Department Requirement

Bachelor of Science in Exercise Science - Health Fitness Instructor Concentration

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	57
Other Requirements	23
Total Credit Hours	120

Curriculum

First Year		Credits
BIO 110 or BIO 100	General Biology or Biological Science	3
BIO 110L or BIO 100L	General Biology Laboratory or Biological Science Lab	1
ENG 101	College English I	3
MTH 103/105	Mathematics in General Education	3
PED 200	Beginning Fitness Through Weight Training	2
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
CSC 150	Computer Literacy	3
ENG 102	College English II	3
HED 170	Personal and Community Health	3
PED 133/134	Beginning Swimming	1
PED 158/159	Fundamentals of Physical Education	1
PED 170	Introduction to Physical Education	3
XXX	Social Sciences	3
Credits		31
Second Year		
HUM 210/211	Humanities	3
SCI 101	Physical Science for Non-Science Majors	3
SCI 101L	Physical Science Laboratory	1
PED 107	Aerobics	1
PED 251	Modern Dance I	1
PED 261/262 or PED 158/159	Team Sports I: Invasion Games or Fundamentals of Physical Education	1
PED 287 or BIO 165	Human Anatomy or Human Anatomy and Physiology	3
PED 287L or BIO 165L	Human Anatomy Laboratory or Human Anatomy and Physiology Laboratory	1
SEM 201	Spartan Seminar 201	1
FSN 110	The Science of Human Nutrition	3
PED 220 or PED 220H	Evaluation in Physical Education or Evaluation in Physical Education - Honors	3
PED 179	First Aid	2
PED 288 or BIO 166	Human Physiology or Human Anatomy and Physiology	3

PED 288L or BIO 166L	Human Physiology Laboratory or Human Anatomy and Physiology Laboratory	1
PSY 228	Developmental Psychology	3
Credits		30

Third Year

EXS 363	Clinical Aspects of Aging	2
XXX XXX	Cultural Perspectives	3
ENG 383	African-American Literature, 1940- PRESENT	
HIS 335	African-American History	
HIS 336	African-American History Since 1865	
HRP 320	African American Health	
HIS 371	Modern African History & Cultures 1600- PRESENT	
EXS 291	Care & Prevention of Athletic Injuries	3
PED 356	Kinesiology	3
PED 365 or PED 365H	Adapted Physical Education or Adapted Physical Education- Honors	3
PED 357	Organization & Administration	3
XXX XXX	Social Sciences Elective	3
SOC 101	Introduction to the Social Sciences	
HIS 101	Hist of Civilizat	
HIS 103	United States History Since 1865	
BUS 175	Introduction to Business & Entrepreneurship	
ECN 200	Basic Principles of Economics	
PED 370	Secondary Physical Education Methods	3
PED 477 or PED 477H	Physiology of Muscular Exercise or Physiology of Muscular Exercise - Honors	3
EXS 300L	Exercise Physiology Lab	1
EXS 292	Stress Management	3
ENG 285	Public Speaking	3
Credits		33

Fourth Year

PED 300 or PED 300H	Advanced Fitness Through Weight Training or Advanced Fitness Through Weight Training -Honors	2
PED 450 or PED 450H	Motor Learning or Motor Learning- Honors	3
PED 451	Psychological Aspects of Sports	3
PED 495	Internship Experience I (Local)	3
XXX XXX	Cultural Perspectives	3
PED 496	Exercise Science Internship	12
Credits		26
Total Credits		120

Electives

Individual Sport/Team Sports

Code	Title	Credits
PED 158 or PED 159	Fundamentals of Physical Education Fundamentals of Physical Education	1
PED 204	Tennis I	1

PED 209	Bowling	1
PED 210	Golf	1
PED 261	Team Sports I: Invasion Games	1
or PED 262	Team Sports II: Net/Wall & Striking/Fielding Games	
PED 271	Individual Sports	1
or PED 272	Cooperative and Target Games	

Health Content

Code	Title	Credits
HED 368A	Cur/Meth Health Ed	3
HED 442	General Safety Education	3
FSN 449	Nutrition in Sports & Fitness	3

Aquatics

Code	Title	Credits
PED 134	Advanced Swimming	1
PED 235	Aquatic Sports and Activities	1
PED 325	Lifeguard Training	3

Rhythms

Code	Title	Credits
PED 109	Water Aerobics	2
PED 251	Modern Dance I	1
PED 254	Jazz Dance	1

Bachelor of Science in Exercise Science - Kinesiotherapy Concentration

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	79
Other Requirements	9
Total Credit Hours	128

Curriculum

First Year		Credits
ENG 101	College English I	3
HRP 120	Medical Terminology	3
EXS 170	Introduction to Exercise Science	3
HED 170	Personal and Community Health	3
PED 287 & 287L	Human Anatomy and Human Anatomy Laboratory	4
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
ENG 102	College English II	3
CSC 150	Computer Literacy	3
MTH 151	College Algebra	3
PED 133 or PED 134	Beginning Swimming or Advanced Swimming	1
PED 158	Fundamentals of Physical Education	1
PED 288 & 288L	Human Physiology and Human Physiology Laboratory	4
Credits		33

Second Year

FSN 110	The Science of Human Nutrition	3
EXS 291	Care & Prevention of Athletic Injuries	3
EXS 355	Anatomical Kinesiology	3
EXS 300 & 300L	Exercise Physiology and Exercise Physiology Lab	4
EXS 292	Stress Management	3
SEM 201	Spartan Seminar 201 (or SEM 201H)	1
CHM 215 & 215L	Chemistry I and Chemistry I Laboratory	4
PSY 210	Introduction to Psychology	3
EXS 267	Therapeutic Exercise & Sports	4
XXX	Social Sciences	3
SOC 101	Introduction to the Social Sciences	
HIS 101	History of World Societies II	
HIS 103	United States History Since 1865	
BUS 175	Introduction to Business & Entrepreneurship	
ECN 200	Basic Principles of Economics	
EXS 356	Biomechanics of Human Motion	3
Credits		34

Third Year

PSY 228	Developmental Psychology	3
---------	--------------------------	---

ENG 285	Public Speaking	3
EXS 363	Clinical Aspects of Aging	2
PED 365 or PED 365H	Adapted Physical Education or Adapted Physical Education- Honors	3
EXS 430	Neurological and Pathological Foundations in Exercise	3
EXS 483	Clinical Kinesiology I	3
PSY 280	Abnormal Psychology	3
HUM XXX	Humanities Elective	3
EXS 369	Research Methods and Statistical Evaluation	3
EXS 491	Clinical Experience Practicum	3
EXS 484	Clinical Kinesiology II	3
PED 450 or PED 450H	Motor Learning or Motor Learning- Honors	3
Credits		35

Fourth Year

XXX XXX	Cultural Perspectives (Online)	3
ENG 383	African-American Literature, 1940-PRESENT	
HIS 335	African-American History	
HIS 336	African-American History Since 1865	
HRP 320	African American Health	
HIS 371	African History/Cultures 1600-PRESENT	
EXS 493G	Clinical Internship in Exercise Science I ((all didactic course work) *Lab Hrs - 500 Cardiac)	10
XXX XXX	Cultural Perspectives (online)	3
EXS 493J	Clinical Internship in Exercise Science II (>:: All didactic course work **Lab Hrs - 500 - Clinical Specialization)	10
Credits		26

Total Credits 128

**** Must have completed all didactic coursework. Advised to have current certifications: CPR, First Aid, and AED. Preapproved required (See KT Program Director) for course registration.**

Lifeguarding Certification: PED 325 (PED 133/134 and/or instructor's approval).

Additional Prerequisites for Graduate School:
CHM 216 and CHM 216L or CHM 221 and CHM 221L
PHY 153 and PHY 153L
PED 179

Bachelor of Science in Exercise Science - Health Wellness and Rehabilitation Concentration

Summary of Graduation Requirements

Subject Area	Credits
General Education Core Requirements (p. 38)	42
Major Requirements	40
HWR Concentration Requirements	38
Total Credit Hours	120

Curriculum

First Year		Credits
BIO 110	General Biology	3
BIO 110L	General Biology Laboratory	1
ENG 101	College English I	3
ENG 102	College English II	3
CSC 150	Computer Literacy	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 Laboratory	1
MTH 153	College Algebra & Trigonometry	3
PED 100	Fundamentals of Fitness for Life	1
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
Credits		29

Second Year		Credits
XXX	Social Sciences ²	3
FSN 110	The Science of Human Nutrition	3
HUM 210/211	Humanities ¹	3
PED 200	Beginning Fitness Through Weight Training	2
PED 287	Human Anatomy	3
PED 287L	Human Anatomy Laboratory	1
SEM 201	Spartan Seminar 201	1
ENG 285	Public Speaking	3
PHY 152	General Physics	3
PHY 152L	General Physics Laboratory I	1
PED 288	Human Physiology	3
PED 288L	Human Physiology Laboratory	1
PSY 210	Introduction to Psychology	3
PED 133	Beginning Swimming	1
Credits		31

Third Year		Credits
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	Adapted Physical Education	3
HED 368A	Cur/Meth Health Ed	3

EXS 369	Research Methods and Statistical Evaluation	3
PED 300	Advanced Fitness Through Weight Training	2
EXS 356	Biomechanics of Human Motion	3
XXX	Cultural Perspectives ³	3
EXS 300	Exercise Physiology	3
EXS 300L	Exercise Physiology Lab	1
Credits		31

Fourth Year

EXS 483	Clinical Kinesiology I	3
EXS 292	Stress Management	3
EXS 363	Clinical Aspects of Aging	2
EXS 430	Neurological and Pathological Foundations in Exercise	3
XXX	Cultural Perspectives ³	3
PED 450	Motor Learning	3
PED 496	Exercise Science Internship	12
Credits		29
Total Credits		120

¹ **Humanities:** (ENG 207 Introduction to World Literature/FIA 201 Basic Art Appreciation/MUS 301 Music Appreciation) HUM 210 Humanities and HUM 211 Humanities accepted but not recommended

² **Social Sciences:** (SOC 101 Introduction to the Social Sciences/HIS 101 History of World Societies II/HIS 103 United States History Since 1865/BUS 175 Introduction to Business & Entrepreneurship/ECN 200 Basic Principles of Economics) HIS 100 History of World Societies I and HIS 102 United States History to 1865 are accepted but not recommended

³ **Cultural Perspectives:** (ENG 383 African-American Literature, 1940-PRESENT/ /MUS 234 African-American Music/HIS 335 African-American History/HIS 336 African-American History Since 1865/HRP 320 African American Health and HIS 371 African History/Cultures 1600-PRESENT) FIA 370 African/Afro-American Art/POS 315 African American Politics/PSY 340 Psychology of the African-American/SOC 237 Racial & Ethnic Minorities and HIS 370 Early African History/Cultures to 1600 are accepted but not recommended.

Driver's Education Endorsement

Code	Title	Credits
PED 440	Driver Education	3
PED 444/440	Principles and Methods of Classroom and In-Car Instruction	3
PED 443/440/444	Drivers Rehabilitation	3
Total Credits		9

Lifeguarding Certification

Code	Title	Credits
Select one of the following:		2-3
PED 325	Lifeguard Training	
PED 133 & PED 134	Beginning Swimming and Advanced Swimming (and/or instructor's approval)	
Total Credits		2-3

Additional Prerequisites for Graduate School

Code	Title	Credits
Select one of the following:		4
CHM 222 & 222L	General Chemistry II and General Chemistry II Laboratory	
PHY 153 & 153L	General Physics and General Physics Laboratory II	4
Total Credits		8

Check additional admission requirements for graduate school of your preference

Secondary Education and School Leadership

Dr. Angel Dowden
Department Head
(757) 823-2926

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 successfully complete 30 credit hours (GPA 2.75 or greater) before applying to teacher education.
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 summer after freshman year or the first semester of their sophomore year, candidates interested in teaching need to submit an application for Admissions to Teacher Education to the Teacher Education Admissions Committee (Teacher Education Admissions (https://forms.office.com/pages/responsepage.aspx?id=XSUPhKnBxUeoJW4zH7LkEV_Sp0bqAUNLIT26ajKanZxUQ0dTNzFUUTIRMERBR1ZUWE5MRDU5WUFTNy4u)). The criteria for admissions are as follows:
 - a. Passing Virginia Communication and Literacy Assessment (VCLA)

Please note , Elementary and Special Education candidates are required to pass the Reading for Virginia Educators (RVE) in addition to the VCLA.
 - b. Candidates must:
 - complete 30 credit hours
 - have a 2.75 or better GPA
 - submit three current letters of recommendation (https://forms.office.com/pages/responsepage.aspx?id=XSUPhKnBxUeoJW4zH7LkEV_Sp0bqAUNLIT26ajKanZxUNEKzWkVDT1UwVIlzMjNZQVNaRE4wOUg5Sy4u)
 - c. Candidates who have not met this requirement are **not** eligible to take SED 300-level Methods Courses.
4. Prior to student teaching, candidates must pass the Praxis II Content Area exam that pertains to the field in which the candidate plans to teach. Candidates must submit an application for student teaching as well.
 - a. They must also complete the following certifications:
 - CPR
 - First Aid
 - AED (Automatic External Defibrillator)
 - Child Abuse Awareness Certificate
 - Dyslexia Awareness Training
 - b. Candidates who have not met this requirement are **not** eligible to take SED 499 Directed Teaching (internship) in the Teacher Education Program.

*** Milestones to Completing a Teacher Education Program (<https://www.nsu.edu/ocess/>)

Code	Title	Credits
EDU 201	Foundations of Education	3
SED 384	Curriculum & Instruction in Math	3
SED 386	Curriculum & Instruction in Fine Arts	3
SED 387	Curriculum & Instruction in English	3
SED 390	Curriculum/Instruc in Social Studies	3
SED 405	Reading in the Content Area	3
SED 420	Educational Technology	3

EDU 486	Human Growth and Development	3
SED 499	Directed Teaching (internship)	12
Total Credits		36

Throughout the program, candidates must also complete the *Methods of Teaching (Curriculum and Instructional Procedures)* in their content area and other licensure courses.

List of Notes for Secondary Education and School Leadership

Note A

A student needs to take the two following courses:

Code	Title	Credits
BIO 100	Biological Science	3
SCI 101	Physical Science for Non-Science Majors	3

Note B

A student needs to take one laboratory course. The laboratory course must be in the same area as one of the science lecture courses taken:

Code	Title	Credits
BIO 100L	Biological Science Lab	1

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 Pre-Calculus for Business Majors. Instead, the student will take MTH 132 Calculus for Business Majors 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.

Code	Title	Credits
ENG 207	Introduction to World Literature	3
ENG 383	African American Literature	3
GEO 141	World Regional Geography	3
GEO 336	Political Geography	3
GEO 337	Geography of Africa	3
HIS 336	African American History Since 1865	3
HIS 361	Readings in Latin American History	3
HIS 365	Caribbean History	3
HIS 370	Early African History/Cultures to 1600	3
HIS 371	African History/Cultures 1600-PRESENT	3
HIS 446	Colonial Latin American	3
HIS 448	Slavery in the Atlantic Basin	3
HUM 210	Humanities	3
HUM 211	Humanities	3
MUS 301	Music Appreciation	3
POS 315	African American Politics	3
POS 323	Comparative Government	3
POS 360	International Relations,International RelationsInternational Relations	3
POS 463	Politics of African Nations	3
POS 468	Survey Contemporary Governments of Asia	3
PSY 340	Psychology of the African American	3
SOC 101	Introduction to the Social Sciences	3
SOC 237	Racial & Ethnic Minorities	3

SPN 111 & SPN 112	Elementary Spanish I and Elementary Spanish II	6
----------------------	---	---

Note E

Cultural Perspectives (6 credit hours)

A student will choose one (1) course from the list below.

Code	Title	Credits
ENG 383	African American Literature	3
MUS 234	African American Music	3

A student will choose one (1) course from the list below:

Code	Title	Credits
HIS 335	African American History	3
HIS 336	African American History Since 1865	3
HIS 370	Early African History/Cultures to 1600	3
HIS 371	African History/Cultures 1600-PRESENT	3
JRN 299	Multiculturalism and Mass Media	3
SOC 237	Racial & Ethnic Minorities	3

Note F

Candidates must pass the VCLA and be admitted to Teacher Education prior to enrolling in SED 300-level courses and SED 499 Directed Teaching (internship): <https://www.nsu.edu/asstests/websites/cpd/teacher-education/milestones-to-completing-a-teacher-education-program.pdf> (<https://www.nsu.edu/ocess/>).

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 be admitted to teacher education. See other requirements under admission to teacher education listed above.

The Office of Clinical Experiences and Student Services

Dr. Shafeeq Ameen, Director
757) 823-8841

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, and 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 of the teaching profession and exhibited a professional interest in teaching.
4. Earned a grade of "C" or better in EDU 201 Foundations of Education or PED 280 - Introduction to Physical Education 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 an original copy of the score report.
6. Received departmental recommendations to be admitted to teacher education.
7. Submitted a portfolio containing items specified in the 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> (<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 Research 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.

COLLEGE OF LIBERAL ARTS

Dr. Wanda Brockington, Dean (I)
 Professor Chinedu Okala, Associate Dean
 (757) 823-2430

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, Music, Drama & Theatre).

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 lifelong 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 lifelong learning. Accordingly, all curricula in the College of Liberal Arts incorporate basic and discipline-appropriate technological instruction.

College of Liberal Arts Departments

- English and Foreign Languages (p. 103)
 - Bachelor of Arts in English (p. 104)
 - Bachelor of Arts in English - Creative Writing Concentration (<https://catalog.nsu.edu/undergraduate/liberal-arts/english-foreign-languages/english-ba-creative-writing-concentration/>)
 - Bachelor of Arts in English - Secondary Education Endorsement (p. 106)
 - Minor in English (p. 105)
 - Minor in Spanish (p. 105)
- History and Interdisciplinary Studies (p. 107)
 - Bachelor of Arts in History (p. 110)
 - Bachelor of Arts in History - Military Science (NAVY) Concentration (p. 111)
 - Bachelor of Arts in History - Online (p. 112)
 - Bachelor of Arts in History – Teacher Licensure Endorsement in History and Social Science (p. 114)
 - Bachelor of Science in Interdisciplinary Studies (p. 116)

- Bachelor of Science in Interdisciplinary Studies - 3 Year Degree Concentration (p. 118)
- Bachelor of Science in Interdisciplinary Studies - Military Concentration (p. 119)
- Bachelor of Science in Interdisciplinary Studies - Online (p. 120)
- Minor in Africana Studies (p. 122)
- Minor in History (p. 122)
- Minor in Interdisciplinary Studies (p. 122)
- Online Programs (p. 123)
- Mass Communications and Journalism (p. 124)
 - Bachelor of Science in Mass Communications - General Broadcast Concentration (p. 125)
 - Bachelor of Science in Mass Communications - Journalism Concentration (p. 126)
 - Minor in Mass Communications (p. 127)
- Political Science (p. 128)
 - Bachelor of Arts in Political Science (p. 130)
 - Certificate in International Studies (p. 132)
 - Minor in Political Science (p. 133)
- Psychology (p. 134)
 - Bachelor of Arts in Psychology (p. 135)
 - Minor in CyberPsychology (<https://catalog.nsu.edu/undergraduate/liberal-arts/psychology/cyberpsychology-minor/>)
 - Minor in Psychology (p. 135)
- Sociology (p. 136)
 - Bachelor of Arts in Sociology (p. 138)
 - Minor in Criminal Justice (<https://catalog.nsu.edu/undergraduate/liberal-arts/sociology/criminal-justice-minor/>)
 - Minor in Sociology (p. 139)
- Visual and Performing Arts (p. 140)
 - Bachelor of Arts in Drama and Theatre - Design and Technology Concentration (p. 144)
 - Bachelor of Arts in Drama and Theatre - Performance Concentration (p. 145)
 - Bachelor of Arts in Fine Arts and Graphic Design (p. 146)
 - Bachelor of Arts in Fine Arts & Graphic Design - Specializing in Education Concentration (p. 148)
 - Bachelor of Music in Music - Media Concentration (p. 152)
 - Bachelor of Music in Music Education - Instrumental/Keyboard/Vocal Concentration (p. 150)
 - Minor in Fine Arts (p. 148)

English and Foreign Languages

Dr. Michele Rozga
Department Chair
(757) 823-8891

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 College English I, ENG 102 College English II, 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 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 Humanities and HUM 211 Humanities) are listed at the end of the course offerings for music.

English and Foreign Languages Programs

- Bachelor of Arts in English (p. 104)
- Bachelor of Arts in English - Creative Writing Concentration (<https://catalog.nsu.edu/undergraduate/liberal-arts/english-foreign-languages/english-ba-creative-writing-concentration/>)

- Bachelor of Arts in English - Secondary Education Endorsement (p. 106)
- Minor in English (p. 105)
- Minor in Spanish (p. 105)

Bonaventure Balla, Ph.D., Associate Professor
bballa@nsu.edu
757-823-2998

Desire Baloubi, Ph.D., Professor
dbaloubi@nsu.edu
757-823-2905

Jason Demeter, Ph.D., Associate Professor
jmdemeter@nsu.edu
757-823-2828

Damani Drew, M.A., Instructor
djdrew@nsu.edu
757-823-9124

Jocelyn Heath, Ph.D., Associate Professor
jaheath@nsu.edu
757-823-2827

Rosalie Kiah, Ph.D., Professor
rbkiah@nsu.edu
757-823-2904

Jennifer Malia, Ph.D., Professor
jlmalia@nsu.edu
757-823-2371

Christina Pinkston, Ph.D., Associate Professor
crpinkston@nsu.edu
757-823-8519

Michele Rozga, Ph.D. Associate Professor
merozga@nsu.edu
757-823-2370

Ingrid Watson-Miller Ph.D., Associate Professor
iwatson-miller@nsu.edu
757-823-8125

Gary Wilkens, Ph.D., Associate Professor
gcwilkens@nsu.edu
757-823-2956

Lamiaa Youssef, Ed.D., Professor
lsyoussef@nsu.edu
757-823-2997

Bachelor of Arts in English

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	69
Electives	11
Other Requirements	0
Total Credit Hours	120

Curriculum

First Year		Credits
BIO 100	Biological Science	3
SCI 101	Physical Science for Non-Science Majors	3
BIO 100L or SCI 101L	Biological Science Lab or Physical Science Laboratory	1
CSC 150	Computer Literacy	3
ENG 101	College English I	3
ENG 102	College English II	3
PED 100	Fundamentals of Fitness for Life	1
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
Select one of the following:		3
SOC 101	Introduction to the Social Sciences	
HIS 101	History of World Societies II	
HIS 103	United States History Since 1865	
BUS 175	Introduction to Business & Entrepreneurship	
ECN 200	Basic Principles of Economics	
HED 100	Personal and Community Health	2
FRN 111 or SPN 111	Elementary French I or Elementary Spanish	3
FRN 112 or SPN 112	Elementary French II or Elementary Spanish II	3
Credits		30

Second Year		Credits
SEM 201	Spartan Seminar 201	1
ENG 207	Introduction to World Literature	3
MTH 103	Mathematics in General Education	3
ENG 285	Public Speaking	3
ENG 286	Writing About Literary Texts	3
FRN 211 or SPN 211	Intermediate French I or Intermediate Spanish I	3
FRN 212 or SPN 212	Intermediate French II or Intermediate Spanish II	3
ENG 210	Practical English Grammar	3
ENG 250	Topics in Literature and Culture	3
ENG 110	Introduction to Creative Writing	3
XXX XXX	Unrestricted Elective	3
Credits		31

Third Year		Credits
ENG 383	African-American Literature, 1940-PRESENT	3

Select one of the following:		3
MUS 234	African-American Music	
HIS 335 or HIS 336	African-American History or African-American History Since 1865	
HRP 320 or HIS 371	African American Health or African History/Cultures 1600-PRESENT	
ENG 306	Introduction to Literary Criticism	3
ENG 315	Survey of English Literature I	3
ENG 341	American Literature I	3
ENG 342	American Literature II	3
ENG 350	Seminar in Literary Analysis and Interpretation	3
ENG 410	History of the English Language	3
ENG 419	Contemporary American English Grammar	3
XXX XXX	Restricted Elective	3

Credits		30
Fourth Year		Credits
ENG 412 or ENG 430	Chaucer or Romantic Writers	3
ENG 454	Young Adult Literature	3
ENG 413	Shakespeare	3
ENG 456 or ENG 459	Women's Studies: Myths and Images or International Women's Literature	3
ENG 449 or ENG 460	Teaching of Composition or Assessment & Evaluation of Writing	3
ENG 465	Special Topics in Literature and Language	3
ENG 490	Internship	3
ENG 450	Research Seminar and Sr Thesis	3
XXX XXX	Unrestricted Electives	5
Credits		29
Total Credits		120

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.

CURRICULUM

The 18 credit hours for the minor in English should be distributed as follows:

Code	Title	Credits
Core Courses		
Select two of the following:		6
ENG 210	Practical English Grammar	
ENG 341	Survey of American Literature I	
ENG 342	Survey of American Literature II	
ENG 306	Introduction to Literary Criticism	3
Electives		
Select nine hours of ENG electives at the 300-400 level		9
Total Credits		18

Minor in Spanish

Curriculum

Code	Title	Credits
Core Courses		
SPN 215	Intermediate Conversation	3
SPN 454	Advanced Grammar and Composition	3
SPN 220	Spanish Civilization	3
Electives		
Select nine hours of Electives at the 300-400 level		9
Total Credits		18

Bachelor of Arts in English - Secondary Education Endorsement

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	48
Professional Education Core	19
Student Teaching	12
General Elective	1
Total Credit Hours	120

Curriculum

First Year		Credits
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
BIO 100	Biological Science	3
SCI 101	Physical Science for Non-Science Majors	3
BIO 100L or SCI 101L	Biological Science Lab or Physical Science Laboratory	1
CSC 150	Computer Literacy	3
ENG 101	College English I	3
ENG 102	College English II	3
PED 100	Fundamentals of Fitness for Life	1
SOC 101	Introduction to the Social Sciences	3
HED 100	Personal and Community Health	2
FRN 111 or SPN 111	Elementary French I or Elementary Spanish	3
FRN 112 or SPN 112	Elementary French II or Elementary Spanish II	3
Credits		30

Second Year		
SEM 201	Spartan Seminar 201	1
HUM 210 or HUM 211	Humanities or Humanities	3
HIS XXX	HIS as Level 100	3
ENG 207	Introduction to World Literature	3
MTH 103	Mathematics in General Education	3
ENG 285	Public Speaking	3
ENG 286	Writing About Literary Texts	3
FRN 211 or SPN 211	Intermediate French I or Intermediate Spanish I	3
FRN 212 or SPN 212	Intermediate French II or Intermediate Spanish II	3
ENG 210	Practical English Grammar	3
EDU 100	Career Analysis in Education	1
EDU 201	Foundations of Education	3
Credits		32

Third Year		
ENG 383	African-American Literature, 1940- PRESENT	3
ENG 306	Introduction to Literary Criticism	3
ENG 315	Survey of English Literature I	3
ENG 341	American Literature I	3

ENG 342	American Literature II	3
ENG 419	Contemporary American English Grammar	3
SED 420	Educational Technology	3
EDU 381	Classroom and Behavior Management	3
SED 387	Curriculum & Instructional Procedures in English	3
XXX XXX	General Elective	1
Credits		28

Fourth Year

ENG 413	Shakespeare	3
ENG 410	History of the English Language	3
ENG 430	Romantic Writers	3
ENG 454	Young Adult Literature	3
SED 405	Reading in the Content Area	3
EDU 486	Human Growth and Development	3
EDU 499	Directed Teaching	12
Credits		30
Total Credits		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 101 College English I, ENG 102 College English II, 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:

Code	Title	Credits
EDU 201	Foundations of Education	3
EDU 381	Classroom and Behavior Management	3
EDU 486	Human Growth and Development	3
SED 405	Reading in the Content Area	3
SED 387	Curriculum & Instructional Procedures in English	3
SED 499	Directed Teaching (internship)	12
Total Credits		27

History and Interdisciplinary Studies

Dr. E. Arnold Modlin, Jr.
Department Chair
(757) 823-9457

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.
 - 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 History of World Societies I, HIS 101 History of World Societies II, HIS 102 United States History to 1865, HIS 103 United States History Since 1865, and HIS 205 Introduction to the Study of History) 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 the Study of 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 United States History to 1865 and HIS 103 United States History Since 1865.

Each academic year, students' papers from HIS 205 Introduction to the Study of History, HIS 305 3 Rs of Hstry Reading/Writing/Research and HIS 497 Intro to Historical Research 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 Intro to Historical Research.

For further information, contact the History Division: Phone (757) 823-8198 or email sjrichmond@nsu.edu or elbennett@nsu.edu.

Interdisciplinary Studies

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 lifelong skills.

Core Courses

(Courses to be completed with grade of "C" or better)

Code	Title	Credits
Core Courses		
INT 210	Intro to Interdisciplinary Studies	3
INT 311	Principles of Interdisciplinary Studies	3
INT 360	Foundations of Research in Int	3
INT 322	Approaches to Critical Analysis	3
INT 375	Language and Society	3
INT 411	Ideas and Their Influences	3
or INT 412	Contemporary Globalization	
INT 470	Sr Seminar	3

Note: INT Core courses are to be taken in numerical order. INT 308 - Introduction to Interdisciplinary Studies is the prerequisite for all INT courses, except INT 412 Contemporary Globalization.

Additional Information

Interdisciplinary Studies courses (INT 308 Introduction to Interdisciplinary Studies, INT 322 Approaches to Critical Analysis, INT 360 Foundations of Research in Int, INT 375 Language and Society, INT 411 Ideas and Their Influences, INT 412 Contemporary Globalization, and INT 470 Sr Seminar) **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).

History and Interdisciplinary Studies Programs

- Bachelor of Arts in History (p. 110)
- Bachelor of Arts in History - Military Science (NAVY) Concentration (p. 111)
- Bachelor of Arts in History - Online (p. 112)
- Bachelor of Arts in History – Teacher Licensure Endorsement in History and Social Science (p. 114)
- Bachelor of Science in Interdisciplinary Studies (p. 116)
- Bachelor of Science in Interdisciplinary Studies - 3 Year Degree Concentration (p. 118)
- Bachelor of Science in Interdisciplinary Studies - Military Concentration (p. 119)
- Bachelor of Science in Interdisciplinary Studies - Online (p. 120)
- Minor in Africana Studies (p. 122)
- Minor in History (p. 122)
- Minor in Interdisciplinary Studies (p. 122)
- Online Programs (p. 123)

Geoffroy de Laforcade, Ph.D., Professor
gdelaforcade@nsu.edu
 757-823-2080

Charles Ford, Ph.D., Professor
chford@nsu.edu

757-823-8344

Alexa Harris, Ph.D., Assistant Professor
aharris@nsu.edu
757-823-8198

Derrick Lanois, Ph.D., Assistant Professor
dalanois@nsu.edu
757-823-8864

Aprilfaye Manalang, Ph.D., Associate Professor
atmanalang@nsu.edu
757-823-9489

Patrick Mbajekwe, Ph.D., Associate Professor
pumbajekwe@nsu.edu
757-823-8865

Eddie Modlin, Ph.D., Associate Professor
eamodlin@nsu.edu
757-823-9457

Khadijah Miller, Ph.D., Professor
komiller@nsu.edu
757-823-2864

Stephanie Richmond, Ph.D., Associate Professor
sjrichmond@nsu.edu
757-823-9073

Janira Teague, Ph.D., Assistant Professor
jpteague@nsu.edu
757-823-2436

Bachelor of Arts in History

Note: Students in this curriculum may tailor their electives to include an emphasis on African and African Diaspora Studies. See corresponding certificate program below.

Summary of Degree Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	57
Electives	23
Other Requirements	0
Total Credit Hours	120

Curriculum

First Year		Credits
SEM 101	Spartan Seminar 101	2
& SEM 102	and Spartan Seminar 102	
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
HIS 100	History of World Societies I	3
HIS 101	Hist of Civilizat	3
HED 100	Personal and Community Health	2
HIS 102	United States History to 1865	3
HIS 103	United States History Since 1865	3
MTH 103	Mathematics in General Education	3
PED 100	Fundamentals of Fitness for Life	1
Credits		33
Second Year		
SEM 201	Spartan Seminar 201	1
ENG 207	Introduction to World Literature	3
or FIA 201	or Basic Art Appreciation	
or MUS 301	or Music Appreciation	
SPN 111	Elementary Spanish	3
or FRN 111	or Elementary French I	
GEO 130	Principles of Geography	3
SPN 112	Elementary Spanish II	3
or FRN 112	or Elementary French II	
SCI 101	Physical Science for Non-Science Majors	3
POS 100	American National Government	3
or BUS 175	or Introduction to Business &	
or ECN 200	Entrepreneurship	
or SOC 101	or Basic Principles of Economics	
	or Introduction to the Social Sciences	
HIS 205	Introduction to the Study of History	3
ENG 285	Public Speaking	3
HIS 335	African-American History	3
or HIS 336	or African-American History Since 1865	
or HIS 370	or Early African History and Cultures,	
or HIS 371	From the Beginning of Humankind to 1600	
	or Modern African History & Cultures	
	1600-PRESENT	

ENG 383	African-American Literature, 1940-	3
or MUS 234	PRESENT	
or FIA 370	or African-American Music	
	or African/Afro-American Art	
Credits		31
Third Year		
XXX-XXX	Electives (See Advisor or Department Chair)	5
HIS 305	The Three R's of History: Reading, Writing and Research	3
Geography Elective		3
Select two History Electives at the 300-400 level		6
HIS 313	United States Early National Period, 1788-1815	
HIS 314	Antebellum America, 1815-1850	
HIS 328	History of Virginia	
HIS 337	United States Women's History	
HIS 377	Black Leaders, Then and Now	
HIS 380	American Military History	
HIS 439	Recent American History From 1932 to Present	
HIS 490M	Special Topics: Black Lives Matter	
HIS 490Z	The History of Love and Marriage	
Select two Atlantic World History		6
HIS 310	Age of Encounter, 1415-1607	
HIS 320	Independent Latin America	
HIS 346	Twentieth-Century Europe	
HIS 350	Borders and Moving People	
HIS 361	Latin America: Readings in Latin-American History	
HIS 365	Caribbean History	
HIS 372	African Diaspora History and Culture	
HIS 490	Special Topics	
XXX XXX	History Elective (300-400 Level)	3
XXX XXX	Skill-based Elective	3
CSC 200	Advanced Computer Concepts	
or GEO 360	or Introduction to Gis	
or ENG 410	or History of the English Language	
or any POS 3XX or 4XX		
Credits		29
Fourth Year		
GEO 430	Geography of Atlantic World Slavery	3
XXX XXX	Electives (See Advisor or Department Chair)	6
GEO XXX	Geography Elective	3
HIS 497	Historical Research	3
HIS 494	Internship	3
or INT 475	or Interdisciplinary Studies Internship	
HIS XXX	History Electives (300-400 level)	9
Credits		27
Total Credits		120

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.

Bachelor of Arts in History - Military Science (NAVY) Concentration

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.

Summary of Degree Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	54
Electives	0
Other Requirements	26
Total Credit Hours	120

Curriculum

First Year		Credits
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 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 Since 1865	3
NSC 111	Naval Laboratory I	1
NSC 112	Naval Laboratory II	1
NSC 101	Naval Orientation	2
NSC 102	Seapower & Maritime Affairs	3
MTH 184	Calculus I	4
MTH 251	Calculus II	4
Credits		32

Second Year

SEM 201	Spartan Seminar 201	1
ENG 285	Public Speaking	3
HIS 205	Introduction to the Study of History	3
HIS 100	History of World Societies I	3
HIS 101	Hist of Civilizat	3
POS 100	American National Government	3
NSC 201	Navalship Systems I (Engineering)	3
NSC 202	Navalship Systems II (Weapons)	3
ENG 207	Introduction to World Literature	3
NSC 211	Naval Laboratory III	1
NSC 212	Naval Laboratory IV	1
PHY 160	University Physics I	4
Credits		31

Third Year

CSC 150 or CSC 200	Computer Literacy or Advanced Computer Concepts	3
HIS 305	The Three R's of History: Reading, Writing and Research	3
HIS 380	American Military History	3
Select seven credits of History Electives (300-400 level, Non-Western)		7

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
ENG 285	Public Speaking	3
PHY 161	University Physics II	4

Credits 31

Fourth Year

HIS 335/336 or HIS 370/371	African-American History or Early African History and Cultures, From the Beginning of Humankind to 1600	3
HIS 497	Historical Research	3
HIS 439	Recent American History From 1932 to Present	3
GEO 130	Principles of Geography	3
Select three credits of History Electives at 300-400 level		3
NSC 401	Leadership & Management I	3
NSC 402	Leadership & Ethics	3
NSC 410	Amphibious Warfare	3
NSC 411	Naval Laboratory Vii	1
NSC 412	Naval Laboratory Viii	1

Credits 26

Total Credits 120

Bachelor of Arts in History - Online

Note: Students in this curriculum must comply with all School of and basic knowledge of computers and internet usage. See Extended Learning policies (<https://www.nsu.edu/policy/admin-34-01.aspx>), including those on computer access.

Summary of Degree Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	57
Electives	23
Other Requirements	0
Total Credit Hours	120

Curriculum

First Year		Credits
SEM 101	Spartan Seminar 101	2
& SEM 102	and Spartan Seminar 102	
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
HIS 100	History of World Societies I	3
HIS 101	Hist of Civilizat	3
HED 100	Personal and Community Health	2
HIS 102	United States History to 1865	3
HIS 103	United States History Since 1865	3
MTH 103	Mathematics in General Education	3
PED 100	Fundamentals of Fitness for Life	1
Credits		33
Second Year		
SEM 201	Spartan Seminar 201	1
ENG 207	Introduction to World Literature	3
or FIA 201	or Basic Art Appreciation	
or MUS 301	or Music Appreciation	
SPN 111	Elementary Spanish	3
or FRN 111	or Elementary French I	
SPN 112	Elementary Spanish II	3
or FRN 112	or Elementary French II	
GEO 130	Principles of Geography	3
SCI 101	Physical Science for Non-Science Majors	3
POS 100	American National Government	3
or BUS 175	or Introduction to Business &	
or ECN 200	Entrepreneurship	
or SOC 101	or Basic Principles of Economics	
	or Introduction to the Social Sciences	
HIS 205	Introduction to the Study of History	3
ENG 285	Public Speaking	3

HIS 335	African-American History	3
or HIS 336	or African-American History Since 1865	
or HIS 370	or Early African History and Cultures,	
or HIS 371	From the Beginning of Humankind to 1600	
	or Modern African History & Cultures	
	1600-PRESENT	
ENG 383	African-American Literature, 1940-	3
or MUS 234	PRESENT	
or FIA 370	or African-American Music	
	or African/Afro-American Art	
Credits		31

Third Year		
XXX-XXX	Electives (See Advisor or Department Chair)	5
HIS 305	The Three R's of History: Reading, Writing and Research	3
Geography Elective		3
Select two History Electives at the 300-400 level		6
HIS 313	United States Early National Period, 1788-1815	
HIS 314	Antebellum America, 1815-1850	
HIS 328	History of Virginia	
HIS 337	United States Women's History	
HIS 377	Black Leaders, Then and Now	
HIS 380	American Military History	
HIS 439	Recent American History From 1932 to Present	
HIS 490M	Special Topics: Black Lives Matter	
HIS 490Z	The History of Love and Marriage	
Select two Atlantic World History		6
HIS 310	Age of Encounter, 1415-1607	
HIS 320	Independent Latin America	
HIS 346	Twentieth-Century Europe	
HIS 350	Borders and Moving People	
HIS 361	Latin America: Readings in Latin-American History	
HIS 365	Caribbean History	
HIS 372	African Diaspora History and Culture	
HIS 490	Special Topics	
XXX XXX	History Elective (300-400 Level)	3
XXX XXX	Skill-based Elective	3
CSC 200	Advanced Computer Concepts	
or GEO 360	or Introduction to Gis	
or ENG 410	or History of the English Language	
or any POS 3XX or 4XX		
Credits		29

Fourth Year		
GEO 430	Geography of Atlantic World Slavery	3
XXX XXX	Electives (See Advisor or Department Chair)	6
GEO XXX	Geography Elective	3
HIS 497	Historical Research	3
HIS 494	Internship	3
or INT 475	or Interdisciplinary Studies Internship	

HIS XXX	History Electives (300-400 level)	9
Credits		27
Total Credits		120

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.

Bachelor of Arts in History – Teacher Licensure Endorsement in History and Social Science

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, SEM 101 Spartan Seminar 101, and ENG 101 College English I, ENG 102 College English II, and ENG 203 Advanced Communication Skills courses. These requirements apply to all areas of endorsement.

**Students must pass the PRAXIS I Test before applying for admission to the School of Education and enrolling in upper-level professional education courses.*

Prior to enrolling for SED 499 Directed Teaching (internship), 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).

Summary of Degree Requirements

Subject Area	Credits
General Education Core (p. 38)	43
Major Requirements	39
Electives	23
Other Requirements	22
Total Credit Hours	127

Curriculum

First Year		Credits
SEM 101	Spartan Seminar 101	2
& SEM 102	and Spartan Seminar 102	
BIO 100	Biological Science	3
BIO 100L	Biological Science Lab	1

SCI 101	Physical Science for Non-Science Majors	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 Since 1865	3
MTH 103	Mathematics in General Education	3
PED 100	Fundamentals of Fitness for Life	1
EDU 201	Foundations of Education	3

Credits 30

Second Year

SEM 201	Spartan Seminar 201	1
POS 100	American National Government	3
GEO 130	Principles of Geography	3
HIS 100	History of World Societies I	3
HIS 101	Hist of Civilizat	3
HIS 205	Introduction to the Study of History	3
Select one of the following:		3

FIA 201	Basic Art Appreciation	
MUS 301	Music Appreciation	

Select one of the following: 3

FRN 111	Elementary French I	
SPN 111	Elementary Spanish	

Select one of the following: 3

FRN 112	Elementary French II	
SPN 112	Elementary Spanish II	

ENG 285 Public Speaking 3

HIS 328 History of Virginia 3

POS 231 American State and Local Government 3

POS 360 International Politics 3

Credits 37

Third Year

ECN 211 Principles of Econ 3

ECN 212 Principles of Econ 3

EDU 381 Classroom and Behavior Management 3

Select one of the following: 3

ENG 286 Writing About Literary Texts

ENG 203 Advanced Communication Skills

ENG 207 Introduction to World Literature

ENG 303 Professional & Technical Writing

Select one of the following: 3

HIS 335 African-American History

HIS 336 African-American History Since 1865

HIS 370 Early African History and Cultures, From the Beginning of Humankind to 1600

HIS 371 Modern African History & Cultures 1600-PRESENT

CSC 150 Computer Literacy 3

Select three credits of History Elective at the 300-400 level 3

SED 390 Second Social Studies Methods 3

SED 420 Educational Technology 3

POS XXX Political Science Elective 3

Select three credits of Geography Elective at 300-400 level	3
Credits	33
Fourth Year	
ENG 383 African-American Literature, 1940-PRESENT	3
Select three credits of Geography Elective at 300-400 level	3
HIS 497 Historical Research	3
POS 431 Modern Theory	3
POS XXX Political Science Elective	3
SED 405 Reading in the Content Area	3
SED 499 Directed Teaching (internship)	12
Credits	30
Total Credits	130

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):

Code	Title	Credits
PSY 228	Developmental Psychology	3
EED 450	Teaching Literacy in the Elementary School	3
EED 499	Directed Teaching and Seminar	12
ECE 460	Admn of Child & Family Programs	3
EED 461	Curriculum and Instruction for Early School	3
EDU 201	Foundations of Education	3

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.

Code	Title	Credits
EDU 201	Foundations of Education	3
SED 405	Reading in the Content Area	3
SPE 440	Collaboration Procedures	3
SPE 490	Assessments of Exceptional Students	3-0
SPE 499	Directed Teaching	6-12

Bachelor of Science in Interdisciplinary Studies

First Year		Credits
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2-0
MTH 103	Mathematics in General Education (or higher)	3-0
ENG 101 or ENG 101H	College English I or Honors College English I	3-0
ENG 102 or ENG 102H	College English II or Honors College English II	3-0
HED 100	Personal and Community Health	2-0
PED 100	Fundamentals of Fitness for Life	1-0
BIO 1XX, CHM 1XX or SCI 1XX	100-level science class	3-0
BIO 1XX, CHM 1XX or SCI 1XX	lab to match 100-level science class (Must be for science class above)	1-0
BIO 1XX, CHM 1XX or SCI 1XX	A second 100-level science class	3-0
CSC 150	Computer Literacy	3-0
Select one of the following social science or history courses:		
BUS 175 or ECN 200 or HIS 100 or HIS 102 or HIS 103 or POS 100 or SOC 101 or SOC 110	Introduction to Business & Entrepreneurship or Basic Principles of Economics or History of World Societies I or United States History to 1865 or United States History Since 1865 or American National Government or Introduction to the Social Sciences or Introduction to Sociology	3-0
Select one of the following humanities courses:		
CSC 150H or FIA 201 or HUM 210 or HUM 211 or MUS 301	Honors Computer Literacy or Basic Art Appreciation or Humanities or Humanities or Music Appreciation	3-0
Credits		30-0
Second Year		
SEM 201	Spartan Seminar 201	1-0
ENG 285 or ENG 285H	Public Speaking or Honors Public Speaking	3-0
CSC 150	Computer Literacy	3-0
CSC 200 or BUS 284 or SED 420	Advanced Computer Concepts or Advanced Microcomputing or Educational Technology	3-0
Select two of the following African or African American culture courses:		6-0

ENG 383 or FIA 370 or HIS 335 or HIS 336 or HIS 370 or HIS 371 or MUS 234 or POS 315 or PSY 340	African-American Literature, 1940-PRESENT or African/Afro-American Art or African-American History or African-American History Since 1865 or Early African History/Cultures to 1600 or African History/Cultures 1600-PRESENT or African-American Music or African American Politics or Psychology of the African-American	0
INT 210	Introduction to Interdisciplinary Studies	3-3
1XX or 2XX-	level course Introductory Concentration I Area course	3-0
1XX or 2XX-	level course Introductory Concentration II Area course	3-0
INT 311	Principles of Interdisciplinary Studies	3-0
XXX XXX	Electives	2-0
Credits		30-3
Third Year		
INT 322	Approaches to Critical Analysis	3-0
XXX XXX	Concentration I Area Courses	6-0
XXX XXX	Concentration II Area courses	6-0
INT 360	Foundations of Research in Interdisciplinary Studies	3-0
INT 375	Language and Society	3-0
XXX-3XX or XXX- 4XX	Upper-level Concentration I Area course	3-0
XXX-3XX or XXX- 4XX	Upper-level Concentration II Area course	3-0
XXX XXX	Electives	3-0
Credits		30-0
Fourth Year		
INT-3XX or INT-4XX	Interdisciplinary Studies Elective	3-0
XXX-3XX or XXX-4XX	Upper-level Concentration I Area courses	6-0
XXX-3XX or XXX-4XX	Upper-level Concentration II Area courses	6-0
INT 470	Sr Seminar	3-0
INT 475	Interdisciplinary Studies Internship	3-0
XXX XXX	Electives	9-0
Credits		30-0
Total Credits		120-3

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements (including concentrations)	63
Electives	14
Technology Supplement	3
Total Credit Hours	120

Code	Title	Credits
General Education Core		
MTH 103 or higher		3
BIO 100, BIO 110 or higher, and/or SCI 101		6
BIO 100L	Biological Science Lab	1-0

or BIO 110L	General Biology Laboratory	
or SCI 101L	Physical Science Laboratory	
CSC 150	Computer Literacy	3-0
or CSC 169	Introduction to Computer Science	
or CSC 200	Advanced Computer Concepts	
BUS 175 or any ECN, POS, or SOC		3
ENG 101	College English I	3-0
ENG 102	College English II	3-0
ENG 285	Public Speaking	3-0
ENG 383, FIA 370, GEO 337 GEO 338, HIS 335, HIS 336, HIS 370, HRP 290, INT 290, INT 376, INT 399A, JRN 299, MUS 234, POS 315, and/or POS 463		6
ENG 207	Introduction to World Literature	3-0
or FIA 201	Basic Art Appreciation	
or MUS 301	Music Appreciation	
HED 100	Personal and Community Health	2-0
or HED 170	Personal and Community Health	
PED 100	Fundamentals of Fitness for Life ^{or higher}	1-0
SEM 101	Spartan Seminar 101	1-0
SEM 102	Spartan Seminar 102	1-0
SEM 201	Spartan Seminar 201	1-0
Supplemental Required Technology		
CSC 200	Advanced Computer Concepts	3-0
or BUS 284	Advanced Microcomputing	
or GEO 360	Introduction to Gis	
or SED 420	Educational Technology	
Required Interdisciplinary (INT) Courses		
INT 210		3-3
INT 311	Principles of Interdisciplinary Studies	3-0
INT 322	Approaches to Critical Analysis	3-0
INT 360	Foundations of Research in Interdisciplinary Studies	3-0
INT 375	Language and Society	3-0
INT 470	Sr Seminar	3-0
INT 475	Interdisciplinary Studies Internship	3-0
or HIS 494	Internship	
INT XXX or 4XX	Elective Courses	6
Concentration I (18 Credit Hours)		
Major Theme: Must have 3XX and/or 4XX level courses		18
Concentration II (18 Credit Hours)		
Must have 3XX and/or 4XX level courses		18
Electives		14

Bachelor of Science in Interdisciplinary Studies - 3 Year Degree Concentration

First Year		Credits
SEM 101	Spartan Seminar 101	1-0
SEM 102	Spartan Seminar 102	1-0
MTH 103	Mathematics in General Education (or higher)	3-0
ENG 101	College English I (or ENG 101H)	3-0
ENG 102	College English II (or ENG 102H)	3-0
HED 100	Personal and Community Health	2-0
PED 100	Fundametals of Fitness for Life	1-0
BIO 1XX, CHM 1XX, or SCI 1XX	100- level science class	3-0
Lab to match: Bio 1XX, CHM 1XX, or SCI 1XX level science class (Must be for science class above)		1-0
BIO 1XX, CHM 1XX, or SCI 1XX A second 100-level science class		3-0
CSC 150	Computer Literacy	3-0
Select one of the following social science or history courses:		
BUS 175 or ECN 200 or HIS 100 or HIS 101 or HIS 102 or HIS 103 or POS 100 or SOC 101 or SOC 110	Introduction to Business & Entrepreneurship or Basic Principles of Economics or History of World Societies I or History of World Societies II or United States History to 1865 or United States History Since 1865 or American National Government or Introduction to the Social Sciences or Introduction to Sociology	3-0
Select one of the following humanities courses:		
ENG 207 or FIA 201 or HUM 210 or HUM 211 or MUS 301	Introduction to World Literature or Basic Art Appreciation or Humanities or Humanities or Music Appreciation	3-0
INT 210	Introduction to Interdisciplinary Studies	3
XXX XXX Electives		3-0
Summer Semester- Between Year 1 and 2		
INT 311	Principles of Interdisciplinary Studies	3-0
XXX XXX Electives		3-0
Credits		42-3
Second Year		
SEM 201	Spartan Seminar 201	1-0
ENG 285 or ENG 285H	Public Speaking or Honors Public Speaking	3-0
CSC 200 or BUS 284 or SED 420	Advanced Computer Concepts or Advanced Microcomputing or Educational Technology	3-0
Select two of the following African or African American culture courses:		6-0

ENG 383	African-American Literature, 1940- PRESENT	0
or FIA 370		
or HIS 335	or African/Afro-American Art	
or HIS 336	or African-American History	
or HIS 370	or African-American History Since 1865	
or HIS 371	or Early African History/Cultures to 1600	
or MUS 234	or African History/Cultures 1600- PRESENT	
or POS 315	or African-American Music	
or PSY 340	or African American Politics or Psychology of the African-American	
1XX or 2XX- level course: Introductory Concentration I Area course		3-0
1XX or 2xx- level course: Introductory Concentration II Area course		3-0
INT 322	Approaches to Critical Analysis	3-0
INT 360	Foundations of Research in Interdisciplinary Studies	3-0
XXX XXX Concentration I Area courses		6-0
XXX XXX Concentration II Area Course		3-0
XXX XXX Electives		2-0
Summer Semester- Between Year 2 and 3		
INT 375	Language and Society	3-0
XXX XXX Concentration II Area		3-0
Credits		42-0
Third Year		
INT-3XX or INT- 4XX Interdisciplinary Studies Elective		3-0
XXX-3XX or XXX-4XX Upper-level Concentration I Area courses		9-0
XXX-3XX or XXX-4XX Upper-level Concentration II Area courses		9-0
INT 470	Sr Seminar	3-0
INT 475	Interdisciplinary Studies Internship	3-0
XXX XXX Electives		9-0
Credits		36-0
Total Credits		120-3

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements (including concentrations)	54
Electives	23
Technology Supplement	3
Total Credit Hours	120

Bachelor of Science in Interdisciplinary Studies - Military Concentration

First Year		Credits
SEM 101	Spartan Seminar 101	1-0
SEM 102	Spartan Seminar 102	1-0
MTH 103	Mathematics in General Education (or higher)	3-0
ENG 101 or ENG 101H	College English I or Honors College English I	3-0
ENG 102 or ENG 102H	College English II or Honors College English II	3-0
HED 100	Personal and Community Health	2-0
PED 100	Fundamentals of Fitness for Life	1-0
BIO 1XX, CHM 1XX, or SCI 1XX	100- level science class	3-0
BIO 1XX, CHM 1XX, or SCI 1XX	Lab to match 100-level science class (Must be for science class above)	1-0
BIO 1XX, CHM 1XX, or SCI 1XX	A second 100-level science class	3-0
CSC 150	Computer Literacy	3-0
Select one of the following social science or history courses		
BUS 175 or ECN 200 or HIS 100 or HIS 101 or HIS 102 or HIS 103 or POS 100 or SOC 101 or SOC 110	Introduction to Business & Entrepreneurship or Basic Principles of Economics or History of World Societies I or History of World Societies II or United States History to 1865 or United States History Since 1865 or American National Government or Introduction to the Social Sciences or Introduction to Sociology	3-0
Select one of the following humanities courses		
ENG 207 or FIA 201 or HUM 210 or HUM 211 or MUS 301	Introduction to World Literature or Basic Art Appreciation or Humanities or Humanities or Music Appreciation	3-0
Credits		30-0
Second Year		
SEM 201	Spartan Seminar 201	1-0
ENG 285 or ENG 285H	Public Speaking or Honors Public Speaking	3-0
CSC 150	Computer Literacy	3-0
CSC 200 or BUS 284 or SED 420	Advanced Computer Concepts or Advanced Microcomputing or Educational Technology	3-0
Select two of the following African or African American culture courses		6-0

ENG 383 or FIA 370 or HIS 335 or HIS 336 or HIS 370 or HIS 371 or MUS 234 or POS 315 or PSY 340	African-American Literature, 1940- PRESENT or African/Afro-American Art or African-American History or African-American History Since 1865 or Early African History/Cultures to 1600 or African History/Cultures 1600- PRESENT or African-American Music or African American Politics or Psychology of the African-American	0
INT 210	Introduction to Interdisciplinary Studies	3
1XX or 2XX- level course	Introductory Concentration I Area course (Military Science & Leadership)	3-0
1XX or 2XX-level course	Introduction Concentration II Area course	3-0
INT 311	Principles of Interdisciplinary Studies	3-0
XXX XXX Electives		2-0
Credits		30-3

Third Year		
INT 322	Approaches to Critical Analysis	3-0
XXX XXX Concentration I Area courses (Military Science & Leadership)		6-0
XXX XXX Concentration II Area courses		6-0
INT 360	Foundations of Research in Interdisciplinary Studies	3-0
INT 375	Language and Society	3-0
XXX-3XX or XXX-4XX	Upper-level Concentration I Area course (Military Science & Leadership)	3-0
XXX-3XX or XXX-4XX	Upper-level Concentration II Area course	3-0
XXX XXX Electives		3-0
Credits		30-0

Fourth Year		
INT-3XX or INT-4XX	Interdisciplinary Studies Elective	3-0
XXX-3XX or XXX-4XX	Upper-level Concentration I Area Courses (Military Science & Leadership)	6-0
XXX-3XX or XXX-4XX	Upper-level Concentration II Area courses	6-0
INT 470	Sr Seminar	3-0
INT 475	Interdisciplinary Studies Internship	3-0
XXX XXX Electives		9-0
Credits		30-0
Total Credits		120-3

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements includes INT Core Courses and other courses in concentrations	63
Electives	17
Total Credit Hours	120

Bachelor of Science in Interdisciplinary Studies - Online

First Year		Credits
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2-0
MTH 103	Mathematics in General Education (or higher)	3-0
ENG 101 or ENG 101H	College English I or Honors College English I	3-0
ENG 102 or ENG 102H	College English II or Honors College English II	3-0
HED 100	Personal and Community Health	2-0
PED 100	Fundamentals of Fitness for Life	1-0
BIO 1XX, CHM 1XX, SCI 1XX	100-level science class	3-0
BIO 1XX, CHM 1XX, SCI 1XX	Lab to match 100-level science class (Must be for science class above)	1-0
BIO 1XX, CHM 1XX, SCI 1XX	A second 100-level science class	3-0
CSC 150	Computer Literacy	3-0
Select one of the following social science or history course:		
BUS 175 or ECN 200 or HIS 100 or HIS 101 or HIS 102 or HIS 103 or POS 100 or SOC 101 or SOC 110	Introduction to Business & Entrepreneurship or Basic Principles of Economics or History of World Societies I or History of World Societies II or United States History to 1865 or United States History Since 1865 or American National Government or Introduction to the Social Sciences or Introduction to Sociology	3-0
Select one of the following humanities courses:		
ENG 207 or FIA 201 or HUM 210 or HUM 211 or MUS 301	Introduction to World Literature or Basic Art Appreciation or Humanities or Humanities or Music Appreciation	3-0
Credits		30-0
Second Year		Credits
SEM 201	Spartan Seminar 201	1-0
ENG 285 or ENG 285H	Public Speaking or Honors Public Speaking	3-0
CSC 150	Computer Literacy	3-0
CSC 200 or BUS 284 or SED 420	Advanced Computer Concepts or Advanced Microcomputing or Educational Technology	3-0
Select two of the following African or African American culture courses:		6-0
ENG 383 or FIA 370 or HIS 335 or HIS 370 or HIS 371 or MUS 234 or POS 315 or PSY 340	African-American Literature, 1940-PRESENT or African/Afro-American Art or African-American History or Early African History/Cultures to 1600 or African History/Cultures 1600-PRESENT or African-American Music or African American Politics or Psychology of the African-American	0-0

INT 210	Introduction to Interdisciplinary Studies	3
1XX or 2XX- Level course	Introductory Concentration I Area course	3-0
1XX or 2XX- level course	Introductory to Concentration II Area course	3-0
INT 311	Principles of Interdisciplinary Studies	3-0
XXX XXX Electives		2-0
Credits		30-3
Third Year		Credits
INT 322	Approaches to Critical Analysis	3-0
XXX XXX Concentration I Area courses		6-0
XXX XXX Concentration II Area courses		6-0
INT 360	Foundations of Research in Interdisciplinary Studies	3-0
INT 375	Language and Society	3-0
XXX- 3XX or XXX-4XX	Upper-level Concentration I Area course	3-0
XXX-3XX or XXX-4XX	Upper-level Concentration II Area course	3-0
XXX XXX Electives		3-0
Credits		30-0
Fourth Year		Credits
INT-3XX or INT-4XX	Interdisciplinary Studies Elective	3-0
XXX-3XX or XXX-4XX	Upper-level Concentration I Area courses	6-0
XXX-3XX or XXX-4XX	Upper-level Concentration II Area courses	6-0
INT 470	Sr Seminar	3-0
INT 475	Interdisciplinary Studies Internship	3-0
XXX XXX Electives		9-0
Credits		30-0
Total Credits		120-3

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements includes INT	63
Core Courses and other courses in concentrations	
Electives	17
Total Credit Hours	120

Certificate 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.

Code	Title	Credits
Prerequisites		
HIS 335	African American History	3

HIS 336	African American History Since 1865	3
Required Courses		
HIS 490A	Special Topics in History	3
HIS 370	Early African History/Cultures to 1600	3
Electives		
Select one course from each of the following Groupings:		15
<i>Group 1</i>		
HIS 371	African History/Cultures 1600-PRESENT	
HIS 490E	Special Topics in History	
<i>Group 2</i>		
HIS 365	Caribbean History	
HIS 446	Colonial Latin American	
HIS 448	Slavery in the Atlantic Basin	
<i>Group 3</i>		
ENG 383	African American Literature	
<i>Group 4</i>		
DRM 219	Black Drama	
FIA 370	African/African-American Art	
MUS 234	African American Music	
MUS 335	Jazz Literature & Criticism	
<i>Group 5</i>		
GEO 337	Geography of Africa	
REL 330	History & Theology of the Black Church	
JRN 299	Multiculturalism and Mass Media	
POS 315	African American Politics	
POS 463	Politics of African Nations	
PSY 340	Psychology of the African American	
SOC 237	Racial & Ethnic Minorities	
INT 412	Contemporary Globalization	
Total Credits		27

Minor in Africana Studies

The Minor in Africana Studies offered by the Department of History and Interdisciplinary Studies provides students with 18 multi-disciplinary credit hours in courses across the curriculum that explore the vast field of African Studies.

Required Course:

Code	Title	Credits
INT 290	Principles of Africana Studies	3
Total Credits		3

Determined Elective Courses:

Code	Title	Credits
HIS 335 or HIS 336	African American History African American History Since 1865	3
HIS 370 or HIS 371	Early African History/Cultures to 1600 African History/Cultures 1600-PRESENT	3
Any upper level GEO course		3
GEO 430	Geography of Atlantic World Slavery	
GEO 450	Cultural Geography	
Total Credits		9

Free Electives (Any two courses):

Code	Title	Credits
Select any two courses from the following:		6
ENG 383	African American Literature	
MUS 234	African American Music	
FIA 370	African/African-American Art	
INT 412	Contemporary Globalization	
HIS 372	African Diaspora History and Culture	
HIS 492	Race/Gender in Cuba/Latin America	
HIS 490M	Special Topics: Black Lives Matter	
POS 463	Politics of African Nations	
GEO 337	Geography of Africa	
GEO 338	Caribbean Geography	
SOC 237	Racial & Ethnic Minorities	
PSY 340	Psychology of the African American	
Total Credits		6

Other courses may be included if they examine the African or African American experience by approval of the department chair.

Minor in History

Curriculum

For those students in other majors seeking a minor in history, the following program is offered:

Code	Title	Credits
HIS 205	Introduction to the Study of History	3
Select four History Electives at the 300-400 level		12
Total Credits		15

Total Degree Hours Required: 18

Minor in Interdisciplinary Studies

Curriculum

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.

Code	Title	Credits
INT 210	Intro to Interdisciplinary Studies	3
INT 311	Principles of Interdisciplinary Studies	3
Approaches to Critical Analysis		3
INT 360	Foundations of Research in Int	3
INT 375	Language and Society	3
INT 470	Sr Seminar	3
Total Credits		18

Online Programs

The Department of Interdisciplinary Studies offers all core courses online, face to face, and in accelerated (8 week) sessions.

Student Requirements

1. 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.
2. 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?"
3. Upon enrollment, students receive a Norfolk State email account. Students must access their Norfolk State email accounts by doing the following:

Go to the NSU web-site (www.nsu.edu (<http://www.nsu.edu>));

Click on E-Learning; then click on Student Support; click on email login information.

4. Students registered for online classes should use their Blackboard (Bb) login and access Blackboard. Once in Blackboard, the students should transmit an email to the class instructor to ensure that they can access the class and that their email is functioning properly.
5. 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 email, and send and receive attachments.
6. For the most up-to-date information on e-learning courses, instructor email addresses, and qualities that contribute to a successful learning experience, contact the School of Extended Learning.

B.S. in Interdisciplinary Studies

1) Reclamation Program at Virginia Beach Higher Education Center

(Please see NSU Website, <http://www.nsu.edu/vbhec/reclamation> (<http://www.nsu.edu/vbhec/reclamation/>).

2) Norfolk Naval Base

(Please see NSU Website, <http://www.nsu.edu/vbhec/navalclasses> (<http://www.nsu.edu/vbhec/navalclasses/>).

Mass Communications and Journalism

Dr. William Hart
Department Chair
(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).

Curriculum Regulations

Mass Communications and Journalism students must earn "C" or better in every departmental course and in:

Code	Title	Credits
SEM 101	Spartan Seminar 101	1
SEM 102	Spartan Seminar 102	1
SEM 201	Spartan Seminar 201	1
ENG 101	College English I	3
ENG 102	College English II	3
ENG 203	Advanced Communication Skills	3
ENG 285	Public Speaking	3

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.

Mass Communications and Journalism Programs

- Bachelor of Science in Mass Communications - General Broadcast Concentration (p. 125)
- Bachelor of Science in Mass Communications - Journalism Concentration (p. 126)
- Minor in Mass Communications (p. 127)

Tony Atwater, Ph.D., Professor
tatwater@nsu.edu
757-823-2660

William Hart, Ph.D., Associate Professor
wbhart@nsu.edu
757-823-2261

Cathy Jackson, Ph.D., Associate Professor
cmjackson@nsu.edu
757-823-2442

Proshot Kalami, Ph.D., Associate Professor
pkalami@nsu.edu
757-823-2862

Terry Marsh, Ph.D., Assistant Professor
wtmarsh@nsu.edu
757-823-8781

Bachelor of Science in Mass Communications - General Broadcast Concentration

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	59
Electives	21
Other Requirements	0
Total Credit Hours	120

Curriculum

First Year		Credits
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
MCM 111	Media and Society	3
MCM 250	Television Production	3
MTH 103	Mathematics in General Education	3
HIS 100	History of World Societies I	3
ENG 101 or ENG 101H	College English I or Honors College English I	3
ENG 102 or ENG 102H	College English II or Honors College English II	3
POS 100	American National Government	3
SOC 101 or SOC 110	Introduction to the Social Sciences or Introduction to Sociology	3
HED 100	Personal and Community Health	2
PED 100	Fundamentals of Fitness for Life	1
Credits		29

Second Year		Credits
SEM 201	Spartan Seminar 201	1
CSC 150	Computer Literacy	3
BIO 100	Biological Science	3
SCI 101	Physical Science for Non-Science Majors	3
Select one of the following:		1
BIO 100L	Biological Science Lab	
SCI 101L	Physical Science Laboratory	
HUM 210 or HUM 211	Humanities or Humanities	3
ENG 203	Advanced Communication Skills	3
ENG 285 or ENG 285H	Public Speaking or Honors Public Speaking	3
ENG 207	Introduction to World Literature	3
MUS 301	Music Appreciation	3
MCM 261	Introduction to Media Writing	3
CSC 200	Advanced Computer Concepts	3
Credits		32

Third Year

Select one of the following:	3
MUS 234	African-American Music
HIS 335	African-American History
HIS 336	African-American History Since 1865

HIS 370	Early African History and Cultures, From the Beginning of Humankind to 1600	
HIS 371	Modern African History & Cultures 1600-PRESENT	
ENG 383	African-American Literature, 1940-PRESENT	
MUS 234	African-American Music	
POS 315	African American Politics	
PSY 210	Introduction to Psychology	3
ECN 211 or ECN 200 or ECN 212	Principles of Econ or Basic Principles of Economics or Principles of Econ	3
JRN 290 or MCM 280 or MCM 330	Digital Photography or Film History or Film/Video Product	3
MCM 310 or MCM 363 or MCM 476	History of Mass Communications or Audio Production or Media Sales	3
ENG 114	Techniques of Vocabulary Building	2
MCM 350 or MCM 315 or MCM 390	Television Directing or Interviewing or Global Media	3
XXX XXX	Elective within the Major	3
JRN 299	Multiculturalism and Mass Media	
MCM 420	Intercultural Communication	
XXX XXX	Electives outside the Major	6
Credits		29

Fourth Year

GEO 130	Principles of Geography	3
MCM 440	Media Law	3
MCM 491	Introduction to the Internet/Web Page	3
MCM 351 or MCM 450 or MCM 485	Introduction to Broadcast & Film Criticism or Media Theory and Research or Satellite Communic	3
MCM 445 or MCM 464	Ethics in Media or Elec News Prod/Edt	3
MCM 460 or MCM 489	Contemporary Issues in Media or Broadcst Mgt Admin	3
XXX XXX	Elective Within the Major	3
JRN 299	Multiculturalism and Mass Media	
MCM 420	Intercultural Communication	
XXX XXX	Elective Outside the Major	9
Credits		30
Total Credits		120

Bachelor of Science in Mass Communications - Journalism Concentration

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	39
Electives	15
Other Requirements	26
Total Credit Hours	120

Curriculum

First Year		Credits
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
MCM 111	Media and Society	3
MTH 103	Mathematics in General Education	3
HIS 100 or HIS 101 or HIS 102 or HIS 103	History of World Societies I or History of World Societies II or United States History to 1865 or United States History Since 1865	3
ENG 101 or ENG 101H	College English I or Honors College English I	3
JRN 220	Basic Writing	3
ENG 102 or ENG 102H	College English II or Honors College English II	3
POS 100	American National Government	3
SOC 101 or SOC 110	Introduction to the Social Sciences or Introduction to Sociology	3
HED 100	Personal and Community Health	2
PED 100	Fundamentals of Fitness for Life	1
Credits		29
Second Year		
SEM 201	Spartan Seminar 201	1
CSC 150	Computer Literacy	3
BIO 100	Biological Science	3
BIO 100L or SCI 101L	Biological Science Lab or Physical Science Laboratory	1
SCI 101	Physical Science for Non-Science Majors	3
JRN 210	Advertising Principles	3
HUM 210 or HUM 211	Humanities or Humanities	3
ENG 203 or ENG 286 or ENG 303	Advanced Communication Skills or Writing About Literary Texts or Professional & Technical Writing	3
ENG 285 or ENG 285H	Public Speaking or Honors Public Speaking	3
MUS 301 or FIA 201	Music Appreciation or Basic Art Appreciation	3
JRN 290	Digital Photography	3
CSC 200	Advanced Computer Concepts	3
Credits		32

Third Year

ENG 207	Introduction to World Literature	3
XXX XXX	Cultural Electives	3
MUS 234	African-American Music	
HIS 335	African-American History	
HIS 336	African-American History Since 1865	
HIS 370	Early African History/Cultures to 1600	
HIS 371	African History/Cultures 1600-PRESENT	
ENG 383	African-American Literature, 1940-PRESENT	
POS 315	African American Politics	
PSY 340	Psychology of the African-American	
PSY 210	Introduction to Psychology	3
ECN 211 or ECN 200	Principles of Microeconomics or Basic Principles of Economics	3
ENG 114	Techniques of Vocabulary Building	2
JRN 330	Copy Editing	3
JRN 341 or JRN 313	Public Relations Practice or Advertising/ Public Campaigns	3
XXX XXX	Elective within the Major	3
JRN 299	Multiculturalism and Mass Media	
MCM 420	Intercultural Communication	
XXX XXX	Electives outside the Major	9
Credits		32

Fourth Year

MCM 440 or MCM 445 or MCM 445H	Media Law or Ethics in Media or Honors Media Ethics	3
GEO 130	Principles of Geography	3
MCM 310 or MCM 460 or MCM 310H	History of Mass Communications or Contemporary Issues in Media or Honors History of Mass Communications	3
MCM 450	Media Theory and Research	3
MCM 491	Introduction to the Internet/Web Page	3
XXX XXX	Elective within the Major	3
JRN 299	Multiculturalism and Mass Media	
MCM 420	Intercultural Communication	
XXX XXX	Electives outside the Major	6
JRN 332 or JRN 342	Graphics Design or Promotional Writing	3
Credits		27
Total Credits		120

Minor in Mass Communications

Curriculum

The following 15 hours are required for a minor in Mass Communications:

Code	Title	Credits
Core Courses		
Select three of the following:		9
MCM 111	Media and Society	
MCM 250	Television Production	
MCM 261	Introduction to Media Writing	
MCM 3XX	Communications Elective	
Elective Courses		
Select two of the following:		6
MCM 330	Electronic Field Production & Editing	
MCM 350	Television Directing	
MCM 464	Advanced Television Production	
MCM 476	Media Sales	
MCM 489	Media Management	
MCM 491	Introduction to the Internet/Web Page	
Total Credits		15

Political Science

Dr. Soji Akomolafe
Department Chair
(757) 823-8999

The Department of Political Science offers a Bachelor of Arts degree in Political Science. This degree is designed to fulfill a wide range of career goals in the field of Political Science. Career areas of interest include the following: American Politics, Public Administration, International Relations, Pre-Law and Urban Planning. For further information regarding areas of interest, please contact the department.

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, international 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.

Career 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

Code	Title	Credits
POS 332	Introduction to Jurisprudence	3
POS 337	American Constitutional Law I	3
POS 338	American Constitutional Law II	3
POS 443	Administrative Law	3
CJS 200	Introduction to Criminal Justice	3
CJS 313	American Ct Systems Honors	3

PUBLIC ADMINISTRATION

Code	Title	Credits
POS 250	Introduction to Public Administration	3
POS 350	Organization Theory and Behavior	3
POS 451	Public Personnel Administration	3
POS 493	Political Science Internship	3
POS 230	American Public Policy	3
POS 443	Administrative Law	3
ACC 201	Principles of Financial Accounting	3

URBAN PLANNING

Code	Title	Credits
URP 192	Introduction to Urban Planning	3
URP 292	Urban Planning Law	3
URP 380	Housing and Community Development	3

U.S. POLITICS AND THEORY

Code	Title	Credits
POS 100	American Government,Americant Government	3
POS 325	American Foreign Policy	3
POS 315	African American Politics	3
POS 431	Modern Theory,Modern Political Theory	3
POS 4XX	Contact department for specific course information	3

INTERNATIONAL RELATIONS

Code	Title	Credits
POS 323	Comparative Government	3
POS 360	International Relations,International RelationsInternational Relations	3
POS 463	Politics of African Nations	3
POS 464	African Crises: Causes and Effects	3

Political Science Programs

- Bachelor of Arts in Political Science (p. 130)
- Certificate in International Studies (p. 132)
- Minor in Political Science (p. 133)

Olusoji Akomolafe, Ph.D., Professor
oakomolafe@nsu.edu
757-823-9576

Carol Pretlow, J.D., L.L.M., Associate Professor
cpretlow@nsu.edu
757-823-8192

Bachelor of Arts in Political Science

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	62
Electives	18
Total Credit Hours	120

Curriculum

First Year		Credits
URP 192	Introduction Urban Planning (Spring only)	3
BIO 100 or SCI 101	Biological Science or Physical Science for Non-Science Majors	3
BIO 110L or BIO 105L or SCI 101L	General Biology Laboratory (or CHM XXXL or PHY XXXL) or Human Biology or Physical Science Laboratory	1
Select one of the following:		3
CSC 150	Computer Literacy	
CLM 165	Computer Literacy for Musicians	
FIA 280	Computer Applications in the Arts	
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
SEM 101	Spartan Seminar 101	1
SEM 102	Spartan Seminar 102	1
Credits		30
Second Year		
Select one of the following:		3
BIO 105	Human Biology	
CHM 1XX, PHY 1XX, or SCI 1XX		
ENG 114	Techniques of Vocabulary Building	2
Select one of the following:		3
HIS 100	History of World Societies I	
HIS 101	Hist of Civilizat	
HIS 102	United States History to 1865	
HIS 103	United States History Since 1865	
Select one of the following:		3
HUM 210	Humanities	
HUM 211	Humanities	
ENG 207	Introduction to World Literature	
FIA 201	Basic Art Appreciation	
MUS 301	Music Appreciation	
SOC 101	Introduction to the Social Sciences	3
URP 292	Urban Planning Law (Fall only)	3
POS 231	American State and Local Government	3
SOC 101	Introduction to the Social Sciences	3
ENG 203	Advanced Communication Skills	3

ENG 285	Public Speaking	3
SEM 201	Spartan Seminar 201	1
Credits		30
Third Year		
ECN 211 or ECN 212	Principles of Econ or Principles of Econ	3
POS 230	American Public Policy	3
POS 250	Introduction to Public Administration	3
POS 332	Introduction to Jurisprudence	3
POS 333	Research Methods	3
POS 345	Statistics and Data Processing	3
Select six credits of the following Cultural Electives:		6
ENG 383	African-American Literature, 1940- PRESENT	
FIA 370	African/Afro-American Art	
MUS 234	African-American Music	
HIS 335	African-American History	
HIS 336	African-American History Since 1865	
HIS 370	Early African History and Cultures, From the Beginning of Humankind to 1600	
HIS 371	Modern African History & Cultures 1600- PRESENT	
SOC 237	Racial & Ethnic Minorities	
POS 315	African American Politics	
PSY 340	Psychology of the African-American	
XXX XXX	Free Elective	3
POS 3XX or 4XX	Political Science Elective	3
Credits		30
Fourth Year		
POS 337	American Constitutional Development (Fall only)	3
POS 350	Organization Theory and Behavior	3
POS 360	International Politics	3
POS 499	Sr Project ¹	3
POS 431	Modern Theory	3
POS 451	Public Personnel Administration	3
XXX XXX	Free Electives	9
POS 3XX or 4XX	Political Science Elective	3
Credits		30
Total Credits		120

¹ Prerequisites: POS 100 American National Government, POS 230 American Public Policy, POS 332 Introduction to Jurisprudence, POS 333 Research Methods, and POS 345 Statistics and Data Processing

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

Code	Title	Credits
POS 332	Introduction to Jurisprudence	3
POS 337	American Constitutional Development	3
POS 338	American Constitutional Law (POS 3XX)	3
POS 443	Administrative Law (POS 4XX) ¹	3
CJS 200	Introduction to Criminal Justice (Free Elective)	3
CJS 313	American Ct Systems Honors (Free Elective)	3

Public Administration

Code	Title	Credits
POS 250	Introduction to Public Administration	3
POS 350	Organization Theory and Behavior	3
POS 451	Public Personnel Administration	3
POS 230	American Public Policy ¹	3
POS 443	Administrative Law (POS 4XX)	3
POS 493	Internship	3
ACC 201	Elementary Accounting I	3

Urban Planning

Code	Title	Credits
URP 192	Introduction Urban Planning	3
URP 292	Urban Planning Law	3
URP 380	Housing and Community Development (URP 3XX)	3-3

U.S. Politics and Theory

Code	Title	Credits
POS 100	American National Government	3
POS 325	American Foreign Policy (POS-3XX)	3
POS 315	African American Politics (POS 3XX)	3
POS 431	Modern Theory	3

International Relations

Code	Title	Credits
POS 323	Comparative Government	3-0
POS 360	International Politics	3
POS 463	Politics of African Nations (POS 4XX)	3
POS 464	African Crisis: Causes and Effects (newly added) ^{2,3}	3
GEO 130	Principles of Geography	3

¹ POS 230 American Public Policy Added

² POS 464 African Crisis: Causes and Effects Added

³ Newly Added

Certificate in International Studies

The purpose of the standalone, online Undergraduate Certificate in International Studies (CIS) is to educate students about critical political, economic, security and strategic issues that govern relations between nations with a special emphasis on American foreign policy. In addition, students will learn about various regions of the world, their international political institutions and systems as well as their impact on the international political process. Upon completion of the program, graduates of the program will be able to identify and analyze major trends in the formulation and conduct of international affairs, international security, global diplomacy and intelligence, both in government and non-governmental agencies. This Certificate in International Studies Program will be offered online only.

Target Audience

This certificate program targets students enrolled at Norfolk State University, the Tidewater region and the broader public across the country and world. As a standalone, online program, interested, qualified students anywhere in the world can take it.

Time to Complete

Full-time and part-time students may enroll in the certificate program. Degree seeking students may take courses in conjunction with their regular course load. Students attending fulltime can complete the certificate in one academic year (2 semesters). Students attending part-time can complete the certificate in a minimum of one academic year (2 semesters) and up to 4 academic years.

Non-degree seeking full-time students, maintaining a course load of at least 12 credits per semester will be able to complete the certificate in a minimum of one academic year (2 semesters). Part-time students, maintaining a course load of six (6) credit hours per semester, are expected to complete the program in approximately 1½ academic years (3 semesters).

Application and Admission

All prospective students must apply to the certificate program. All applicants must complete the following:

- Submit an application through Norfolk State University's admissions office and be admitted to the certificate program
- Submit official transcripts from all colleges and universities attended, except for students currently enrolled at Norfolk State University.
- Meet all other requirements for admission as determined by the NSU Admissions Office.

Applicants enrolled in a degree program at Norfolk State University will not be required to pay an application fee.

Students who have not earned a degree in the United States must submit the following:

- Proof of English proficiency. International students must submit scores from the Test of English as a Foreign Language (TOEFL) or International English Language Testing System (IELTS) academic exams. Foreign nationals must receive a minimum score of 550 on the Test of English as a Foreign Language.

Curriculum Requirements

The program consists of a minimum of 18 hours of course work. The curriculum will focus on educating students on international political systems and policies that shape the relationships between major regions of the world including both state and non-state actors. Students will gain an understanding of international political and economic trends, conflicts, treaties, diplomatic and strategic initiatives. Participants will be required to complete 9 credit hours of core and 3 in Area Studies. This is in addition to 3-6 hours of foreign languages. The core courses will introduce students to basic elements of international relations, a comparative analysis of different regions of the world, and in particular studies in American foreign policy. Additionally, the area studies requirement will allow students to specialize in any one of the predetermined regions of the world. The foreign language coursework will focus on fundamental elements (basic listening, speaking, reading, and writing skills) in order to give students an added advantage on communicating with foreign entities should the need arise.

The Certificate in International Studies consists of eighteen (18) credits.

Group I: CIS Core Requirements - nine (9) credits

** All CIS students must satisfy the following Core Requirements.

Code	Title	Credits
POS 323	Comparative Government	3
POS 325	American Foreign Policy	3
POS 360	International Relations,International RelationsInternational Relations	3
Total Credits		9

Group II: Area Studies Requirements - three (3) Credits

** Students must choose one course out of the following courses.

Code	Title	Credits
GEO 337	Geography of Africa	3
HIS 320	Independent Latin America	3
HIS 346	Twentieth-Century Europe	3
HIS 365	Caribbean History	3
HIS 371	African History/Cultures 1600-PRESENT	3
POS 463	Politics of African Nations	3

Group III: Foreign Language Requirements - three (3) credits

** Students must choose one course out of the following courses.

Code	Title	Credits
ARA 111	Elementary Arabic I	3
FRN 111	Elementary French I	3
SPN 111	Elementary Spanish I	3

Group IV: CIS Restrictive Electives - three(3) credits

** Students must choose three (3) credits out of the following courses.

Code	Title	Credits
BUS 417	International Business	3
FRN 112	Elementary French II	3
HIS 100	History of World Societies I	3
INT 412	Contemporary Globalization	3
MCM 390	Global Media	3
POS 464	African Crises: Causes and Effects	3

SOC 325	Sociology of Business/Internationalism	3
SPN 112	Elementary Spanish II	3

Minor in Political Science

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.
2. To prepare students to be able to examine critically, evaluate and analyze contemporary issues in politics.
3. 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 nonprofit 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.

Curriculum

Code	Title	Credits
Required Courses		
POS 250	Introduction to Public Administration	3
POS 100	American Government, American Government	3
POS 180	Introduction to Political Science (newly added)	3
POS 332	Introduction to Jurisprudence	3
POS 431	Modern Theory, Modern Political Theory	3
POS XXX	Political Science Elective 3XX, POS 4XX	3
URP 192	Introduction to Urban Planning	3
Total Credits		21

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 English Grammar and ENG 303 Professional & 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 Political Science Internship.
- POS 493 Political Science 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.

Psychology

Dr. Karen Y. Holmes
Department Chair
(757) 823-8573

The Department of Psychology offers the Bachelor of Arts Degree with concentrations in General Psychology. 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 undergraduate programs offered by this department will be prepared to assume important roles in the community as paraprofessionals, and behavioral science researchers. All programs are designed to prepare students for rigorous graduate training in psychology. The Department also offers a Master of Science in CyberPsychology 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.

Psychology Programs

- Bachelor of Arts in Psychology (p. 135)
- Minor in CyberPsychology (<https://catalog.nsu.edu/undergraduate/liberal-arts/psychology/cyberpsychology-minor/>)
- Minor in Psychology (p. 135)

Karen Y. Holmes, Ph.D., Professor
kyholmes@nsu.edu
757-823-9055

Karen L. Boyd, Psy.D., Instructor
klboyd@nsu.edu
757-823-2933

Scott Debb, Ed.D., Professor
smdebb@nsu.edu
757-823-8943

Joy Cooley-Doles, Psy.D., Professor
jacooley@nsu.edu
757-823-9439

Leah Floyd, Ph.D., Associate Professor
ljfloyd@nsu.edu
757-823-2659

Andrew Franklin, Ph.D., Associate Professor
asfranklin@nsu.edu
757-823-2241

Erica Russell, Ph.D., Associate Professor
errussell@nsu.edu
757-823-2228

Bachelor of Arts in Psychology

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	34
Psychology Electives	24
Free Electives	22
Total Credit Hours	120

Curriculum

First Year		Credits
ENG 101	College English I	3
ENG 102	College English II	3
CSC 150	Computer Literacy	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 the Social Sciences	3
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
Credits		29

Second Year

BIO, CHM or PHY XXX	Biological Science, Chemistry or Physical Science	6
BIO, CHM or PHY Lab		1
CSC 200	Advanced Computer Concepts	3
ENG 207	Introduction to World Literature	3
PSY 270	Psychological Statistics	3
PSY 280	Abnormal Psychology	3
PSY XXX	Psychology Electives	6
ENG 285	Public Speaking	3
PSY 381	Psychology Topics Death & Dying	3
SEM 201	Spartan Seminar 201	1
Credits		32

Third Year

PSY 360	Experimental Psychology	3
ECN 200 or ECN 211	Basic Principles of Economics or Principles of Econ	3
PSY XXX	Psychology Electives	9
XXX XXX	Free Electives	12
PSY 392	Seminar in Community Resources	1
XXX XXX	Social Science Elective	3
Credits		31

Fourth Year

Select one of the following:		3
HIS 335	African-American History	
HIS 336	African-American History Since 1865	
HIS 370	Early African History and Cultures, From the Beginning of Humankind to 1600	

HIS 371	Modern African History & Cultures 1600-PRESENT	
PSY 492	Psychology Seminar	3
PSY XXX	Psychology Electives	9
PSY 495	Practicum in Psychology	3
XXX XXX	Free Electives	10
Credits		28
Total Credits		120

Minor in Psychology

Curriculum

Students must earn a minimum grade of C in all major courses.

Code	Title	Credits
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 XXX	400 level Psychology Course	3
Total Credits		18

Sociology

Dr. Carlene Turner
Department Chair
(757) 823-8436

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.

Sociology Programs

- Bachelor of Arts in Sociology (p. 138)
- Minor in Criminal Justice (<https://catalog.nsu.edu/undergraduate/liberal-arts/sociology/criminal-justice-minor/>)
- Minor in Sociology (p. 139)

Austin Ashe, Ph.D., Associate Professor
awashe@nsu.edu
757-823-2144

Regina Brisgone, Ph.D., Assistant Professor
rebrisgone@nsu.edu
757-823-8931

James Curiel, Ph.D., Associate Professor
jacuriel@nsu.edu
757-823-8924

Michael Fischer, Ph.D., Professor
mfischer@nsu.edu
757-823-8708

Timothy Goler, Ph.D., Assistant Professor
tgoler@nsu.edu
757-823-8023

Bernadette Holmes, Ph.D., Professor
bjholmes@nsu.edu
757-823-8263

Robert Perkins, Ph.D., Professor
rkperkins@nsu.edu
757-823-8164

Yuying Shen, Ph.D., Associate Professor
yshen@nsu.edu
757-823-2013

Carlene Turner, Ph.D., Associate Professor

cmturner@nsu.edu
757-823-9078

Bachelor of Arts in Sociology

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	45
Electives	35
Other Requirements	0
Total Credit Hours	120

Curriculum

First Year	Credits
Select one of the following:	
HIS 100 History of World Societies I	
HIS 101 Hist of Civilizat	
HIS 102 United States History to 1865	
HIS 103 United States History Since 1865	
Select two of the following:	6
BIO 100 Biological Science	
BIO 105 Human Biology	
BIO 110 General Biology	
SCI 101 Physical Science for Non-Science Majors	
Select one of the following:	1
BIO 100L Biological Science Lab	
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 Mathematics in General Education or MTH 105 or Intermediate Algebra	3
PED 100 Fundametals of Fitness for Life	1
SOC 101 Introduction to the Social Sciences	3
SOC 110 Introduction to Sociology	3
SEM 101 Spartan Seminar 101 & SEM 102 and Spartan Seminar 102	2
Credits	30

Second Year

Select one of the following:	3
HIS 100 History of World Societies I	
HIS 101 Hist of Civilizat	
HIS 102 United States History to 1865	
HIS 103 United States History Since 1865	
Select two of the following:	6
HUM 210 Humanities	
HUM 211 Humanities	
ENG 207 Introduction to World Literature	
MUS 301 Music Appreciation	
Foreign Language	
SOC 234 Urban Sociology or SOC 228 or Demographic Principles	3
Select one of the following:	3
PSY 210 Introduction to Psychology	
POS 100 American National Government	

ECN 211 Principles of Econ	
ENG 285 Public Speaking	3
SOC 237 Racial & Ethnic Minorities or CJS 200 or Introduction to Criminial Justice	3
SOC 230 Social Problems	3
XXX XXX Free Elective	3
CJS 200 Introduction to Criminial Justice	3
SEM 201 Spartan Seminar 201	1
Credits	31

Third Year

SOC 338 Sociology of Families or SOC 331 or Social Psychology	3
Select one of the following:	3
ENG 383 African-American Literature, 1940- PRESENT	
HIS 335 African-American History	
HIS 336 African-American History Since 1865	
HIS 370 Early African History and Cultures, From the Beginning of Humankind to 1600	
HIS 377 Black Leaders, Then and Now	
POS 315 African American Politics	
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
Credits	30

Fourth Year

SOC 446 Sociological Theory	3
XXX XXX Approved Elective	3
SOC 393 Internship	6
SOC 462 Complex Organizations	3
SOC 499 Applied Sociology	3
XXX XXX Free Electives	11
Credits	29
Total Credits	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

Code	Title	Credits
POS 100 American National Government or PSY 210 Introduction to Psychology		3
Select three of the following CJS Electives:		9
CJS 200 Introduction to Criminial Justice		3
CJS 220 Juvenile Delinquency		
CJS 225 Law Enforcement		
CJS 230 Introduction to Corrections		
CJS 310 Criminology		
CJS 313 American Ct Systems Honors		

CJS 315	Sociology of Drug Usage	
CJS 492	Topics in Criminal Justice	
Choose three of the following Approved/Free Electives:		9
POS 332	Introduction to Jurisprudence	
SOC 458	Social Stratification	
SOC 237	Racial & Ethnic Minorities	
CJS XXX		

Family and Social Relations

Code	Title	Credits
PSY 210	Introduction to Psychology ¹	3
Select three of the following SOC XXX:		9
SOC 338	Sociology of Families	
SOC 331	Social Psychology	
SOC 205	Human Sexuality	
CJS 220	Juvenile Delinquency	
CJS 315	Sociology of Drug Usage	3
SOC 458	Social Stratification	3
Select one of the following Approved Electives:		3
PSY 220	Child Psychology	
PSY 225	Adolescent Psychology	
SOC 228	Demographic Principles	
Select two of the following Free Electives:		6
Any Approved Elective above		
SOC 458	Social Stratification	
SWK 327	Interviewing Techniques	
SOC 237	Racial & Ethnic Minorities	

¹ Instead of POS 100 American National Government.

² Instead of CJS 200 Introduction to Criminal Justice.

Social Inequality and Social Justice

Code	Title	Credits
SOC 237	Racial & Ethnic Minorities	3
SOC 458	Social Stratification	3
Select one of the following:		3
SOC 228	Demographic Principles	
SOC 234	Urban Sociology	
SOC 325	Sociology of Business & Internationalism	
Select three of the following Approved Electives/Free Electives:		9
CJS 310	Criminology	
CJS 230	Introduction to Corrections	
CJS 200	Introduction to Criminal Justice	
POS	(Housing)	
POS 315	African American Politics	
GEO 130	Principles of Geography	
INT 411	Ideas and Their Influences	

¹ Instead of PSY 210 Introduction to Psychology.

² Instead of CJS 200 Introduction to Criminal Justice.

Population Studies and International Development

Code	Title	Credits
ECN 211	Principles of Econ ¹	3
or POS 100	American National Government	
SOC 228	Demographic Principles ³	3
Select one of the following:		3
SOC 401	Socio-Cybersecurity	
SOC 404	Population and Socioeconomic Development	
SOC 234	Urban Sociology	
SOC 325	Sociology of Business & Internationalism	
Select three of the following Approved/Free Electives:		9
SOC 458	Social Stratification	
SOC 237	Racial & Ethnic Minorities	
INT 411	Ideas and Their Influences	
HIS	International Focus	
GEO 130	Principles of Geography	

¹ Instead of PSY 210 Introduction to Psychology.

² Instead of CJS 200 Introduction to Criminal Justice.

³ Instead of SOC 234 Urban Sociology.

Minor in Sociology

Curriculum

Code	Title	Credits
Introduction		
SOC 110	Introduction to Sociology	3
Social Problems		
Select one of the following:		3
SOC 230	Social Problems	
SOC 228	Demographic Principles	
SOC 234	Urban Sociology	
CJS 200	Introduction to Criminal Justice	
Social Research		
SOC 344	Methods of Social Research	3
Organization		
Select one of the following:		3
SOC 446	Sociological Theory	
SOC 458	Social Stratification	
SOC 462	Complex Organizations	
General		
Select one of the following:		3
SOC XXX	Sociology Elective (300-400 level)	
CJS XXX	Criminal Justice Elective (300-400 level)	

Total Credits 15

Visual and Performing Arts

Dr. Susan Ha
Department Head
(757) 823-8544

Drama and Theater Division

Ms. Christy Frederick
Program Coordinator of Drama & Theatre
(757) 823-8413

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.

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.

Music Division

Dr. Harlan Zackery
Program Coordinator
(757) 823-8565

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

Code	Title	Credits
MUS 140	Music Fundamentals	3
MUS 103	Recitals Class	0
MUS 125A	Applied Major/Voice	2
MUS 100B/121B	Piano	0
MUS 110A	Band	1
ENG 101	College English I	3
SEM 101	Spartan Seminar 101	1
MTH 103	Mathematics in General Education	3
HED 100	Personal and Community Health	2
Total Credits		15

If the Diagnostic Examination is completed successfully, the sequence below is taken.

Code	Title	Credits
MUS 145	Harmony and Keyboard	2
MUS 141	Sight-Singing & Ear Training	2
MUS 125B	Applied Major/Piano	2
MUS 103	Recitals Class	0
MUS 100B/121B	Piano	0
MUS 110A	Band	1
ENG 101	College English I	3
SEM 101	Spartan Seminar 101	1
MTH 103	Mathematics in General Education	3
HED 100	Personal and Community Health	2
Total Credits		16

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.

Visual and Performing Arts Programs

- Bachelor of Arts in Drama and Theatre - Design and Technology Concentration (p. 144)
- Bachelor of Arts in Drama and Theatre - Performance Concentration (p. 145)
- Bachelor of Arts in Fine Arts and Graphic Design (p. 146)
- Bachelor of Arts in Fine Arts & Graphic Design - Specializing in Education Concentration (p. 148)
- Bachelor of Music in Music - Media Concentration (p. 152)
- Bachelor of Music in Music Education - Instrumental/Keyboard/Vocal Concentration (p. 150)
- Minor in Fine Arts (p. 148)

William Beathea, M.A., Assistant Professor
whbeathea@nsu.edu
757-823-8431

Terry Butler, M.Mus., Instructor
twbutler@nsu.edu
757-823-9521

Sam Dorsey, Ph.D., Professor
sbdorsey@nsu.edu
757-823-2440

Derek Eley, M.F.A., Assistant Professor

dleley@nsu.edu
757-823-4374

Frank Elliott, M.Mus., Instructor
ftelliott@nsu.edu
757-823-8197

Christy Frederick, M.F.A., Associate Professor
clfrederick@nsu.edu
757-823-8413

Gregory Gardner, M.Mus., Instructor
gwgardner@nsu.edu
757-823-8581

Charles Gorden, M.F.A., Instructor
cggorden@nsu.edu
757-823-2880

Susan Ha, D.M.A., Associate Professor
scha@nsu.edu
757-823-8582

Sam Hughes, M.F.A., Associate Professor
sdhughes@nsu.edu
757-823-8420

Solomon Isekeije, M.F.A., Professor
srisekeije@nsu.edu
757-823-8844

Bianca Jackson, D.M.A., Associate Professor
bkjackson@nsu.edu
757-823-8575

Sarah Kim, D.M.A., Assistant Professor
skim@nsu.edu
757-823-8577

Michael McIntosh, M.F.A., Assistant Professor
mrmcintosh@nsu.edu
757-823-2991

Marcia Neblett, M.F.A., Associate Professor
maneblett@nsu.edu
757-823-8425

Anne Neikirk, D.M.A., Associate Professor
alneikirk@nsu.edu
757-823-9112

Chinedu Okala, M.F.A., Professor
cgokala@nsu.edu
757-823-2872

Matthew Russell, D.M.A., Associate Professor
mnrussell@nsu.edu
757-823-9199

Stephanie Sanders, M.Mus., Assistant Professor
sksanders@nsu.edu
757-823-8581

DeVaughn Scott-Smith, M.Mus., Assistant Professor
dqscott-smith@nsu.edu

757-823-8568

Anthony Stockard, M.F.A., Professor
amstockard@nsu.edu
757-823-0040

Gerald Thompson, M.Mus., Instructor
gethompson@nsu.edu
757-823-9267

Harlan Zackery, Jr., D.M.A., Associate Professor
hzackery@nsu.edu
757-823-8565

Bachelor of Arts in Drama and Theatre - Design and Technology Concentration

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Core	38
Area of Emphasis	21
Electives	3
Minor or Unrestricted Electives	18
Total Credit Hours	120

Curriculum

Course	Title	Credits
First Year		
FIA 114	Basic Design I	3
DRM 114	Introduction to Theatre	3
ENG 101	College English I	3
ENG 102	College English II	3
DRM 115	Dramatic Theory & Criticism	3
DRM 120	Stagecraft I	3
DRM 123	Theory and Techniques of Acting	3
DRM 219	Black Drama	3
CSC 150	Computer Literacy	3
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
Credits		29
Second Year		
BIO 100	Biological Science	3
SCI 101	Physical Science for Non-Science Majors	3
SCI 101L	Physical Science Laboratory	1
DRM 240	Theatre Management	3
FIA 120	Drawing I	3
HED 100	Personal and Community Health	2
ENG 285	Public Speaking	3
PED 251	Modern Dance I	1
PED 254	Jazz Dance	1
Select one of the following HUM XXX:		3
ENG 207	Introduction to World Literature	
FIA 201	Basic Art Appreciation	
MUS 103	Recitals Class	
MTH 103	Mathematics in General Education	3
Select one of the following SOC/SCI:		3
SOC 101	Introduction to the Social Sciences	
HIS 101	History of World Societies II	
HIS 103	United States History Since 1865	
BUS 175	Intro to Business & Entrepreneurship	
ECN 200	Basic Principles of Economics	
PED 100	Fundamentals of Fitness for Life	1
SEM 201	Spartan Seminar 201	1
Credits		31

Third Year

DRM 220	Stagecraft II	3
DRM 238	Stage Management	3
DRM 310	Stage Make-Up	3
DRM 315	History of Theater I	3
DRM 320	Lighting Design	3
DRM 321	Stage Design	3
ENG 410	History of the English Language	3
DRM 426 or DRM 450	Special Project in Theater I or Research Seminar	3
Select one of the following CUL 1:		3
ENG 383	African American Literature	
MUS 234	African American Music	
HIS 371	African History/Cultures 1600-PRESENT	
HRP 320	African American Health	
Select one of the following CUL 2:		3
ENG 383	African American Literature	
MUS 234	African American Music	
HIS 371	African History/Cultures 1600-PRESENT	
HRP 320	African American Health	
Credits		30

Fourth Year

DRM XXX	Drama Elective	3
DRM 420	Play Production	3
DRM 425	Directing	3
XXX XXX	Minor or Unrestricted Electives	18
DRM 436	Sound Design	3
Credits		30
Total Credits		120

Bachelor of Arts in Drama and Theatre - Performance Concentration

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Core	38
Area of Emphasis	21
Electives	3
Minor or Unrestricted Electives	18
Total Credit Hours	120

Curriculum

Course	Title	Credits
First Year		
DRM 113	Theatre Movement I	3
DRM 114	Introduction to Theatre	3
ENG 101	College English I	3
ENG 102	College English II	3
DRM 115	Dramatic Theory & Criticism	3
DRM 120	Stagecraft I	3
DRM 123	Theory and Techniques of Acting	3
DRM 219	Black Drama	3
CSC 150	Computer Literacy	3
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
Credits		29
Second Year		
BIO 100	Biological Science	3
SCI 101	Physical Science for Non-Science Majors	3
SCI 101L	Physical Science Laboratory	1
DRM 240	Theatre Management	3
DRM 200	Intermediate Acting	3
HED 100	Personal and Community Health	2
ENG 285	Public Speaking	3
PED 251	Modern Dance I	1
PED 254	Jazz Dance	1
Select one of the following HUM XXX:		3
ENG 207	Introduction to World Literature	
FIA 201	Basic Art Appreciation	
MUS 301	Music Appreciation	
MTH 103	Mathematics in General Education	3
Select one of the following SOC/SCI:		3
SOC 101	Introduction to the Social Sciences	
HIS 101	History of World Societies II	
HIS 103	United States History Since 1865	
BUS 175	Intro to Business & Entrepreneurship	
ECN 200	Basic Principles of Economics	
PED 100	Fundamentals of Fitness for Life	1
SEM 201	Spartan Seminar 201	1
Credits		31
Third Year		
DRM 212	Improvisation for the Theatre	3

DRM 238	Stage Management	3
DRM 310	Stage Make-Up	3
DRM 315	History of Theater I	3
DRM 324	Advanced Acting Theory	3
ENG 413	Shakespeare	3
DRM 426 or DRM 450	Special Project in Theater I or Research Seminar	3
Select one of the following CUL 1:		3
ENG 383	African American Literature	
MUS 234	African American Music	
HIS 371	African History/Cultures 1600-PRESENT	
HRP 320	African American Health	
Select one of the following CUL 2:		3
ENG 383	African American Literature	
MUS 234	African American Music	
HIS 371	African History/Cultures 1600-PRESENT	
HRP 320	African American Health	
SCM 350	Voice and Diction	3
Credits		30
Fourth Year		
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
Credits		30
Total Credits		120

Bachelor of Arts in Fine Arts and Graphic Design

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	62
Electives	18
Other Requirements	0
Total Credit Hours	120

Curriculum

First Year		Credits
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	3
HED 100	Personal and Community Health	2
FIA 280	Computer Applications in the Arts	3
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
PED 100	Fundamentals of Fitness for Life	1
XXX XXX	Foreign Language	3
Credits		29

Second Year

BIO 100	Biological Science	3
BIO 100L	Biological Science Lab	1
FIA 140 or FIA 240	Ceramics or Sculpture	3
FIA 220	Life Drawing	3
SEM 201	Spartan Seminar 201	1
HUM 210 or HUM 211	Humanities or Humanities	3
FIA 234	Painting	3
FIA 295	Sophomore/Junior Review	1
FIA 201	Basic Art Appreciation	3
MTH 103	Mathematics in General Education	3
HIS 100	History of World Societies I	3
SOC 101	Introduction to the Social Sciences	3
Credits		30

Third Year

FIA 270	History of Art Survey I	3
FIA 271	History of Art Survey II	3
ENG 285	Public Speaking	3
FIA 370	African/Afro-American Art	3
Select one of the following FIA XXX Electives:		3
FIA 165	Foundations of Photo 1	
FDM 149	Apparel Production I	
FIA 260	Introduction to Graphic Design	
Select one of the following FIA XXX Electives:		3
FIA 265	Studio Lighting 1	

FDM 250	Pattern-Making I	
FIA 360	Typography	
Select one of the following Electives:		3
FIA 365	Fashion Photography I	
FIA 362	Graphic Design I	
XXX XXX	Cultural Elective	3
XXX XXX	General Education Elective	3
XXX XXX	General Education or Foreign Language Elective	3
Credits		30

Fourth Year

FIA 470	Printmaking Workshop 2	3
FIA 491	Advanced Studio Problems	3
FIA 495	Portfolio Preparation and Sr Exhibition	2
FIA 465 or FIA 460	Studio Workshop 1 or Advanced Graphic Design	3
FIA 466 or FIA 461	Studio Workshop 2 or Advanced Graphic Design	3
FIA 467 or FIA 462	Studio Workshop 3 or Design in Commerce	3
FIA 468	Studio Workshop 4	3
XXX XXX	General Education Elective	6
XXX XXX	Free Elective	3
Credits		29
Total Credits		118

A non-art minor can be established by choosing carefully with your advisor the 15 – 18 necessary hours of electives.

Specific Courses Required for the Curriculum:

Code	Title	Credits
FIA 116	Basic Design III	3
FIA 262	Printmaking Workshop	3
FIA 235	Painting	3
FIA 165	Foundations of Photo 1	3
FIA 166	Foundations of Photo 2	3
FIA 260	Introduction to Graphic Design	3
FIA 265	Studio Lighting 1	3
FIA 266	Studio Lighting 2	3
FIA 295	Sophomore/Junior Review	3
FIA 321	Intermediate Drawing	3
FIA 360	Typography	3
FIA 362	Graphic Design I	3
FIA 363	Graphic Design II	3
FIA 380	Computer Imaging	3
FIA 420	Advanced Drawing	3
FIA 460	Advanced Graphic Design	3
FIA 461	Advanced Graphic Design	3
FIA 462	Design in Commerce	3
FIA 463	Design in Commerce	3
FIA 465	Studio Workshop 1	3
FIA 469	Printmaking Workshop 1 - Intaglio Printmaking	3
FIA 470	Printmaking Workshop 2 (A/B)	3

FIA 492/492A/492B	Advanced Studio Problems	3
FDM 149	Apparel Production I	3
FDM 250	Pattern-Making I	3
FDM 334	Textiles	3
FDM 449	Design Collections	3
FIA 221	Life Drawing	3
FIA 211	Fashion Drawing	3
FDM 149	Apparel Production I	3
FDM 250	Pattern-Making I	3
FDM 362	Fashion Forecasting and Sourcing	3
FDM 496	Fashion Merchandising Internship	3

Cultural Electives

Code	Title	Credits
ENG 383	African-American Literature, 1940-PRESENT	3
HIS 336	African-American History Since 1865	3
HIS 371	African History/Cultures 1600-PRESENT	3
MUS 234	African-American Music	3
POS 315	African American Politics	3
PSY 340	Psychology of the African-American	3
SOC 237	Racial & Ethnic Minorities	3

Fine Arts Electives

May be any FIA or FDM 100, 200, 300, or 400 level courses listed in the:

1. NSU Student Handbook
2. Department of Fine Arts Handbook, or
3. NSU Semester Schedule Book .

Bachelor of Arts in Fine Arts and Graphic Design - Specializing in Education Concentration

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	59
Electives	9
Other Requirements	16
Total Credit Hours	124

Curriculum

First Year		Credits
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 and Community Health	2
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
PED 100	Fundamentals of Fitness for Life	1
Credits		32

Second Year		Credits
SEM 201	Spartan Seminar 201	1
BIO 100	Biological Science	3
SCI 101	Physical Science for Non-Science Majors	3
BIO 100L	Biological Science Lab	1
FIA 141	Ceramics	3
FIA 280	Computer Applications in the Arts	3
FIA 214	Craft Design Workshop	3
FIA 220	Life Drawing	3
FIA 240	Sculpture	3
FIA 261	Printmaking Workshop	3
HIS 102	United States History to 1865	3
MTH 103	Mathematics in General Education	3
Credits		32

Third Year		Credits
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 or HUM 211	Humanities or Humanities	3
PSY 228	Developmental Psychology	3
ENG 285	Public Speaking	3
SED 405	Reading in the Content Area	3

SOC 101	Introduction to the Social Sciences	3
XXX XXX	Cultural Elective ¹	3
Credits		30

Fourth Year

FIA 320	Intermediate Drawing	3
FIA 365	Fashion Photography I	3
SED 386	Curriculum & Instructional Procedures in Fine Arts	3
EDU 381	Classroom and Behavior Management	3
SED 499	Directed Teaching (internship)	12
XXX XXX	Elective ¹	3
XXX XXX	Elective ¹	3
Credits		30
Total Credits		124

¹ Recommended Electives: ENG 383 African-American Literature, 1940-PRESENT, FIA 370 African/Afro-American Art, HIS 335 African-American History, HIS 336 African-American History Since 1865, HIS 371 Modern African History & Cultures 1600-PRESENT, MUS 234 African-American Music, POS 315 African American Politics, SED 420 Educational Technology, SOC 237 Racial & Ethnic Minorities

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

Code	Title	Credits
ENG 383	African-American Literature, 1940-PRESENT	3
FIA 370	African/Afro-American Art	3
HIS 335	African-American History	3
HIS 336	African-American History Since 1865	3
HIS 371	Modern African History & Cultures 1600-PRESENT	3
MUS 234	African-American Music	3
POS 315	African American Politics	3
SED 420	Educational Technology	3
SOC 237	Racial & Ethnic Minorities	3

Minor in Fine Arts

Curriculum

(For students majoring in other departments.)

Code	Title	Credits
FIA 115	Basic Design II	3
FIA 120	Drawing I	3
FIA 260	Introduction to Graphic Design	3
FIA 3XX	Dept. Elective (FDM or FIA)	3
FIA 3XX	Dept. Elective (FDM or FIA)	3
FIA XXX	Department Elective (300 or 400 level)	3
Total Credits		18

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.

Bachelor of Music in Music Education - Instrumental/Keyboard/Vocal Concentration

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	87
Electives	0
Other Requirements	0
Total Credit Hours	127

Curriculum

First Year		Credits
ENG 101	College English I	3
ENG 102	College English II	3
MTH 103	Mathematics in General Education	3
MUS 103	Recitals Class	0
MUS 104	Recitals Class	0
MUS 110D	Concert Choir	1
MUS 111D	Concert Choir	1
MUS 121A	Voice Minor	1
MUS 122A	Voice Minor	1
MUS 122B	Piano Minor	1
MUS 125A	Applied Major/Voice	2
MUS 126A	Applied Major/Voice	2
MUS 131	Music Literature ²	2
MUS 132	Music Literature ²	2
MUS 141	Sight-Singing & Ear Training	2
MUS 142	Sight-Singing & Ear Training	2
MUS 145	Harmony and Keyboard	2
MUS 146	Harmony and Keyboard	2
HED 100	Personal and Community Health	2
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
Credits		34
Second Year		
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 241	Sight-Singing & Ear Training	2
MUS 242	Sight-Singing & Ear Training	1
MUS 245	Harmony/Keyboard	2
MUS 246	Harmony/Keyboard	2
MUS 260 or MUS 261	Band Instrument Survey (Instrumental) or Percussion Class	1
MUS 271 or MUS 273	Vocal Diction (Instrumental) or Voice Class	1
MUS 272	Vocal Diction (Instrumental/Keyboard)	1
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
MUS 210D	Concert Choir	1
MUS 211D	Concert Choir	1
MUS 221A	Voice Minor	1
MUS 222A	Voice Minor	1
MUS 225A	Applied Major/Voice	2
MUS 226A	Applied Major/Voice	2
Credits		32

Third Year

BIO 100 or SCI 101	Biological Science or Physical Science for Non-Science Majors	3
BIO 100L	Biological Science Lab	1
Select one of the following:		3
HIS 100	History of World Societies I	
HIS 101	History of World Societies II	
HIS 102	United States History to 1865	
HIS 103	United States History Since 1865	
MUS 234	African-American Music	3
MUS 303	Recitals Class	0
MUS 304	Recitals Class	0
MUS 331	Music History ²	2
MUS 332	Music History ²	2
MUS 346	Composition	3
MUS 351	Advanced Conducting	2
MUS 362	Brasswind Class (Instrumental or music elective, Vocal and Keyboard)	1
MUS 384I/384V	Curriculum & Instructional Procedures in Teaching Music in the Public Schools (instrumental) (Vocal or Instrumental) ³	2
SED 405	Reading in the Content Area	3
MUS 310F	Jazz Ensemble	1
MUS 311F	Jazz Ensemble	1
MUS 325B	Applied Major/Piano	2
MUS 326B	Applied Major/Piano	2
Credits		31

Fourth Year

MUS 403	Recitals Class	0
MUS 410F	Jazz Ensemble	1
MUS 425B	Applied Major/Piano	2
MUS 426B	Applied Major/Piano	2
SED 499	Directed Teaching (internship) ³	12
PHY 154	Physics of Music	3
ENG 285	Public Speaking	3
EDU 381	Classroom and Behavior Management	3
Select one of the following:		3
SOC 110	Introduction to Sociology	
SOC 101	Introduction to the Social Sciences	
Credits		29
Total Credits		126

- 1 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.
- 2 Satisfies the core humanities requirement.
- 3 Students must pass the PRAXIS I and II tests prior to applying for admission to MUS 383 Meth Pub Sch Music and MUS 384I Curriculum & Instructional Procedures in Teaching Music in the Public Schools (instrumental) – Methods in Public School Music.
SED 499 Directed Teaching (internship) may be taken before taking the PRAXIS Exam.
- 4 Senior Recital or Senior Jury Required.

New Footnote

++In addition to MUS 234 African-American Music, satisfies the core cultural requirement.

Bachelor of Music in Music - Media Concentration

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	82
Electives	0
Other Requirements	0
Total Credit Hours	122

Curriculum

First Year		Credits
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
MUS 103	Recitals Class	0
MUS 104	Recitals Class	0
MUS 131	Music Literature ^{2,3}	2
MUS 132	Music Literature ^{2,3}	2
MUS 141	Sight-Singing & Ear Training	2
MUS 142	Sight-Singing & Ear Training	2
MUS 145	Harmony and Keyboard	2
MUS 146	Harmony and Keyboard	2
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
MUS 110D	Concert Choir	1
MUS 111D	Concert Choir	1
MUS 121A	Voice Minor	1
MUS 122A	Voice Minor	1
MUS 125A	Applied Major/Voice	2
MUS 126A	Applied Major/Voice	2
Credits		33
Second Year		
BIO 100	Biological Science	3
BIO 100L	Biological Science Lab	1
CLM 165	Computer Literacy for Musicians	3
MUS 203	Recitals Class	0
MUS 204	Recitals Class	0
MCM 111	Media and Society	3
MUS 240	Progressive Harmony	3
MUS 241	Sight-Singing & Ear Training	2
MUS 151	Elementary Conducting	2
PED 100	Fundamentals of Fitness for Life	1
Select one of the following:		3
HIS 100	History of World Societies I	
HIS 101	Hist of Civilizat	
HIS 102	United States History to 1865	
HIS 103	United States History Since 1865	
SEM 201	Spartan Seminar 201	1
MUS 210D	Concert Choir	1
MUS 211D	Concert Choir	1

MUS 221A	Voice Minor	1
MUS 222A	Voice Minor	1
MUS 225A	Applied Major/Voice	2
MUS 226A	Applied Major/Voice	2
Credits		30

Third Year

MUS 265	Practical Application in Electronic Music (Midi)	3
MUS 234	African-American Music ²	3
MUS 243	Melody and Improvisation	3
MUS 303	Recitals Class	0
MUS 304	Recitals Class	0
MUS 331	Music History	2
MUS 332	Music History	2
MUS 335	Jazz Literature & Criticism	3
MUS 346	Composition	3
PHY 154	Physics of Music	3
ENG 285	Public Speaking	3
MUS 310F	Jazz Ensemble	1
MUS 311F	Jazz Ensemble	1
MUS 325B	Applied Major/Piano	2
MUS 326B	Applied Major/Piano	2
Credits		31

Fourth Year

MUS 261	Percussion Class	1
MUS 365	Recording & Music Production	3
MUS 403	Recitals Class	0
MUS 440	Legal Protection to Music & Musicians	3
MUS 366	Music Video	3
MUS 410F	Jazz Ensemble	1
MUS 425A	Applied Major/Voice	2
MUS 426A	Applied Major/Voice	2
MUS 367	Protools 101	3
MUS 448	Arranging	2
MCM 496	Internship	3
MUS 493	Music Internship	3
Credits		26
Total Credits		120

¹ 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.

² The two semesters of MUS 131 Music Literature and MUS 132 Music Literature, and MUS 234 African-American Music serve as the Humanities requirement in the General Education Core. MCM 111 Media and Society also serves as the Social Science requirement in the General Education Core.

³ 4 semesters of Music Literature/History satisfy the Humanities core requirements

⁴ Senior Recital or Senior Jury Required

COLLEGE OF SCIENCE, ENGINEERING, AND TECHNOLOGY

Dr. Michael Keeve, Dean
(757) 823-8180

Dr. Mushtaq Khan, Associate Dean
(757) 823-2821

Website: <http://www.nsu.edu/cset/engineering/index> (<http://www.nsu.edu/cset/engineering/index/>)

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
- 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 Bachelor of Science degree in Computer Science at Norfolk State University is accredited by the Computing Accreditation Commission of ABET, <https://www.abet.org> (<https://www.abet.org/>), under the General Criteria and the Computer Science Program Criteria.

2. Chemistry

Chemistry-American Chemical Society (ACS)

1155 Sixteenth Street, N.W.

Washington, DC 20036

(202) 872-4589

<http://www.acs.org/cpt> (<http://www.acs.org/cpt/>)

3. Engineering

The Bachelor of Science degree in Electrical and Electronics Engineering at Norfolk State University is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org> (<https://www.abet.org/>), under the General Criteria and the Electrical and Electronics Engineering Program Criteria.

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 \(https://www.naacls.org/about.aspx\)](https://www.naacls.org/about.aspx)

6. **Nursing B.S.**

Accreditation Commission for Education in Nursing (ACEN)
3390 Peachtree Road, NE, Suite 850
Atlanta, GA 30326
T: (404) 975-5000
Fax: (404) 975-5020

and

The Virginia Board of Nursing Perimeter Center
9960 Maryland Drive, Suite 300
Henrico, VA 23233-1463
T: (804) 367-4515
[www.acenursing.org \(http://www.acenursing.org\)](http://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. Nursing

Science, Engineering and Technology Departments

- Army Science (p. 158)
 - Bachelor of Arts in History - Military Science (ARMY) Concentration (p. 158)
- Biology (p. 160)

- Bachelor of Science in Biology (p. 161)
- Bachelor of Science in Biology - Pre-Professional Concentration (p. 163)
- Bachelor of Science in Biology - Teacher Licensure Endorsement (p. 165)
- Minor in Biology (p. 161)
- Chemistry (p. 166)
 - Bachelor of Science in Chemistry (p. 168)
 - Bachelor of Science in Chemistry - Pre-Medicine Concentration (p. 170)
 - Bachelor of Science in Chemistry - Secondary Education Concentration (p. 171)
 - Bachelor of Science in Chemistry and Master of Science in Materials Science - Five-Year Dual Degree (p. 172)
 - Minor in Chemistry (p. 168)
- Computer Science (p. 174)
 - Bachelor of Science in Computer Science - Standard Track (p. 176)
 - Bachelor of Science in Computer Science - Computer Engineering Track (p. 178)
 - Bachelor of Science in Computer Science - IA Track (p. 179)
 - Bachelor of Science in Computer Science - Cybersecurity Track (<https://catalog.nsu.edu/undergraduate/science-engineering-technology/computer-science/computer-science-bs-track-cyb/>)
 - Bachelor of Science in Computer Science - Software Engineering Track (p. 180)
 - Bachelor of Science in Information Technology (p. 182)
 - Minor in Game Design and Development (<https://catalog.nsu.edu/undergraduate/science-engineering-technology/computer-science/computer-science-minor-game-design-track/>)
 - Minor in Computer Science (p. 181)
- Engineering (p. 183)
 - Bachelor of Science Electrical and Electronics Engineering (General) (p. 187)
 - Bachelor of Science in Electrical and Electronics Engineering (Track) (p. 189)
 - Bachelor of Science in Optical Engineering (p. 192)
 - Minor in Biomedical Engineering (p. 186)
 - Minor in Electrical and Electronics Engineering (p. 191)
 - Minor in Optical Engineering (p. 193)
- Mathematics (p. 194)
 - Bachelor of Science in Mathematics - Applied Mathematics Track (p. 196)
 - Dual Degree in Mathematics (p. 197)
 - Minor in Mathematics (p. 198)
 - Mathematics with Teacher Certification Track (p. 198)
- Naval Science (p. 200)
 - Naval Reserve Officers Training Corp (NROTC) (p. 200)
- Nursing and Allied Health (p. 202)
 - Bachelor of Science in Health Services Management - Food Science & Nutrition Concentration (p. 204)
 - Bachelor of Science in Health Services Management - Online (p. 205)
 - Bachelor of Science in Nursing - Online (RN to BSN) Completion Track (p. 210)
 - Bachelor of Science in Nursing - Traditional (Pre-licensure) Baccalaureate Completion Track (p. 208)
 - Certificate in Health Services Management (p. 207)
- Physics (p. 212)
 - Bachelor of Science in Physics (p. 213)
 - Bachelor of Science in Physics and Master of Science in Materials Science (Five-Year Dual Degree) (p. 214)
 - Minor in Astronomy (p. 213)
 - Minor in Physics (p. 215)
 - Teacher Certification in Physics (p. 215)
- Special Academic Programs (p. 217)
 - Bachelor of Science in Biology - (DNIMAS) Track (p. 220)
 - Bachelor of Science in Biology - Pre-Professional (DNIMAS) Track (p. 219)
 - Bachelor of Science in Chemistry - (DNIMAS) Track (p. 221)
 - Bachelor of Science in Chemistry - Pre-Medicine (DNIMAS) Track (p. 222)
 - Bachelor of Science in Computer Science - (DNIMAS) Computer Engineering Track (p. 224)
 - Bachelor of Science in Computer Science - (DNIMAS) Track (p. 223)

- Bachelor of Science in Computer Science - CyberSecurity Track (DNIMAS) (p. 225)
- Bachelor of Science in Computer Science - Software Engineering Track (DNIMAS) (<https://catalog.nsu.edu/undergraduate/science-engineering-technology/special-academic-programs/computer-science-bs-dnimas-software-engineering-track/>)
- Bachelor of Science in Electrical and Electronics Engineering - (DNIMAS) Track (p. 226)
- Bachelor of Science in Mathematics - Applied Mathematics - (DNIMAS) Track (p. 218)
- Bachelor of Science in Optical Engineering - (DNIMAS) Track (p. 227)
- Bachelor of Science in Physics - (DNIMAS) Track (p. 228)
- Technology (p. 229)
 - Associate of Science in Architectural Drafting (p. 230)
 - Bachelor of Science in Computer Engineering Technology (p. 232)
 - Bachelor of Science in Construction Management Engineering Technology (p. 230)
 - Bachelor of Science in Electronics Engineering Technology (p. 234)

Army Science

LTC Craig Starn, 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 Fundamentals of Leadership/Management, MSL 102 Basic Leadership, MSL 201 Advanced Leadership/Management, and MSL 202 Advanced Leadership/Management 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.

NSU Course	AROTC Substitutions Course
HED 100	MSL 101 or MSL 102
HIS 100, HIS 101, HIS 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 Advanced Leadership/Management, MSL 302 Advanced Leadership/Management, MSL 401 Theory and Dynamics of Military Team, and MSL 402 Theory and Dynamics of Military Team 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 American Military History.

Advanced Course students also participate in a 30 day training event at Ft. Knox, KY during the summer between MSL 302 Advanced Leadership/Management and MSL 401 Theory and Dynamics of Military Team. 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 cdstarn@nsu.edu.

Army Science Programs

- Bachelor of Arts in History - Military Science (ARMY) Concentration (p. 158)

Bachelor of Arts in History - Military Science (ARMY) Concentration

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	54
Electives	0
Other Requirements	26
Total Credit Hours	120

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.

Curriculum

First Year		Credits
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 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 Since 1865	3
MTH 103	Mathematics in General Education	3
MSL 101 & 101D	Fundamentals of Leadership/Management and Basic Drill & Ceremony Module	3
MSL 102 & 102D	Basic Leadership and Basic Drill & Ceremony Module	3
SCI 101	Physical Science for Non-Science Majors	3
Credits		32
Second Year		
SEM 201	Spartan Seminar 201	1

HIS 205	Introduction to the Study of History	3
Select on any of the following:		3
FRN 111	Elementary French I	
SPN 111	Elementary Spanish	
Select on any of the following:		3
FRN 112	Elementary French II	
SPN 112	Elementary Spanish II	
HIS 100	History of World Societies I	3
HIS 101	Hist of Civilizat	3
POS 100	American National Government	3
MSL 201 & 201D	Advanced Leadership/Management and Basic Drill & Ceremony Module	3
MSL 202 & 202D	Advanced Leadership/Management and Basic Drill & Ceremony Module	3
Select one of the following ENG XXX courses:		3
ENG 286	Writing About Literary Texts	
ENG 203	Advanced Communication Skills	
ENG 303	Professional & Technical Writing	
CSC 200	Advanced Computer Concepts	3
Credits		31

Third Year

HIS 305	The Three R's of History: Reading, Writing and Research	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
ENG 285	Public Speaking	3
MSL 301 & 301D	Advanced Leadership/Management and Advanced Drill & Ceremony Module	4
MSL 302 & 302D	Advanced Leadership/Management and Advanced Drill & Ceremony Module	4
HIS 335 or HIS 336	African-American History or African-American History Since 1865	3
ENG 207	Introduction to World Literature	3
Credits		32

Fourth Year

HIS 497	Historical Research	3
HIS 439	Recent American History From 1932 to Present	3
GEO XXX	Geography Electives (300-400 level)	3
HIS 370 or HIS 371	Early African History and Cultures, From the Beginning of Humankind to 1600 or Modern African History & Cultures 1600-PRESENT	3
POS 360	International Politics	3
HIS XXX	History Electives (300-400 level)	6
MSL 401 & 401D	Theory and Dynamics of Military Team and Advanced Drill & Ceremony Module	4

MSL 402 & 402D	Theory and Dynamics of Military Team and Advanced Drill & Ceremony Module	4
Credits		29
Total Credits		124

Biology

Dr. Malikah Abdullah
Department Chair
(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.

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.

Biology Programs

- Bachelor of Science in Biology (p. 161)
- Bachelor of Science in Biology - Pre-Professional Concentration (p. 163)
- Bachelor of Science in Biology - Teacher Licensure Endorsement (p. 165)
- Minor in Biology (p. 161)

Minor in Biology

Curriculum

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.

Code	Title	Credits
Core Courses		
BIO 110	General Biology	3
BIO 110L	General Biology Laboratory	1
BIO 111	General Biology II	3
BIO 111L	General Biology II Laboratory	1
BIO 260	Integrative Zoology	3
BIO 260L	Integrative Zoology Laboratory	1
BIO 261	General Botany	3
BIO 261L	General Botany Laboratory	1
Additional Course Requirements		
Select one of the following: ¹		3-6
BIO 272 & 272L	Human Anatomy and Human Anatomy Laboratory	
BIO 278 & 278L	Cell Biology and Cell Biology Laboratory	
BIO 310 & 310L	General Microbiology and General Microbiology Laboratory	
BIO 351 & 351L	Principles of Genetics and Principles of Genetics Laboratory	
BIO 474 & 474L	Molecular Biology and Molecular Biology Laboratory	
BIO 495	Biostatistics	
BIO 461 & 461L	Plant Physiology and Plant Physiology Laboratory	
BIO 469 & 469L	Biochemistry and Biochemistry Laboratory	
BIO 459 & 459L	General Physiology and General Physiology Laboratory	
Total Credits		19-22

¹ Lectures and labs must be taken together unless you have consent of instructor to take lecture only.

Bachelor of Science in Biology

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	42
Major Requirements	49
Electives	3
Other Requirements	26
Total Credit Hours	120

Curriculum

First Year		Credits
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
BIO 110 & 110L	General Biology and General Biology Laboratory	4
BIO 111 & 111L	General Biology II and General Biology II Laboratory	4
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
Select one of the following:		3
HIS 100	History of World Societies I	
POS 100	American National Government	
SOC 110	Introduction to Sociology	
MTH 151	College Algebra	3
MTH 153	College Algebra & Trigonometry	3
PED 100	Fundamentals of Fitness for Life	1
Credits		28
Second Year		
SEM 201	Spartan Seminar 201	1
BIO 260 & 260L	Integrative Zoology and	4
BIO 261	General Botany	3
BIO 261L	General Botany Laboratory	1
XXX XXX	Biology Elective	4
CHM 221	General Chemistry I	3
CHM 222	General Chemistry II	3
CHM 221L	General Chemistry I Laboratory	1
CHM 222L	General Chemistry II Laboratory	1
CSC 150	Computer Literacy	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
Credits		33
Third Year		
BIO XXX XXX	Elective	4
BIO 263 & 263L	and Vertebrate Embryology Lab	
BIO XXX XXX	Elective	4
BIO 270 & 270L	Comparative Vertebrate Anatomy and Physiology and Comparative Vertebrate Anatomy & Physiology Laboratory	
BIO 272 & 272L	Human Anatomy and Human Anatomy Laboratory	
BIO 310	General Microbiology	3
BIO 310L	General Microbiology Laboratory	1
CHM 321	Organic Chemistry I	3
CHM 321L	Organic Chemistry I Laboratory	2
CHM 322	Organic Chemistry II	3
CHM 322L	Organic Chemistry II Laboratory	2
PHY 152	General Physics	3
PHY 152L	General Physics Laboratory I	1

PHY 153	General Physics	3
PHY 153L	General Physics Laboratory II	1
Select one Cultural Elective of the following:		3
ENG 383	African-American Literature, 1940-PRESENT	
HIS 335	African-American History	
HIS 336	African-American History Since 1865	
HRP 320	African American Health	
MUS 234	African-American Music	
Credits		33
Fourth Year		
BIO 351	Principles of Genetics	3
BIO 351L	Principles of Genetics Laboratory	1
BIO 364	Seminar and Colloquium in Biology	1
Select one of the following BIO elective:		4
BIO 459	General Physiology	
BIO 459L	General Physiology Laboratory	
BIO 461 & 461L	Plant Physiology and Plant Physiology Laboratory	
BIO 495	Biostatistics	3
BIO 474	Molecular Biology	3
BIO 474L	Molecular Biology Laboratory	2
Select one Cultural Elective:		3
ENG 383	African-American Literature, 1940-PRESENT	
FIA 270	History of Art Survey I	
HIS 335	African-American History	
HIS 336	African-American History Since 1865	
HRP 320	African American Health	
MUS 234	African-American Music	
XXX XXX	Free Elective	3
Select one Humanities Elective:		3
HUM 210	Humanities	
HUM 211	Humanities	
ENG 207	Introduction to World Literature	
FIA 201	Basic Art Appreciation	
MUS 301	Music Appreciation	
Credits		26
Total Credits		120

All Biology courses require students to take both lecture (3 credits) and lab (1 credit) with the exception of BIO 364 Seminar and Colloquium in Biology and BIO 495 Biostatistics. The lab for BIO 474L Molecular Biology Laboratory is 2 credits.

Bachelor of Science in Biology - Pre-Professional Concentration

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	45
Major Requirements	46
Electives	3
Other Requirements	26
Total Credit Hours	120

Biology 3 Curriculum

First Year		Credits
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
BIO 110 & 110L	General Biology and General Biology Laboratory	4
BIO 111 & 111L	General Biology II and General Biology II Laboratory	4
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
Select one of the following:		3
HIS 100	History of World Societies I	
POS 100	American National Government	
SOC 110	Introduction to Sociology	
MTH 151	College Algebra	3
MTH 153	College Algebra & Trigonometry	3
PED 100	Fundamentals of Fitness for Life	1
Credits		28
Second Year		
SEM 201	Spartan Seminar 201	1
BIO 260 & 260L	Integrative Zoology and	4
BIO 261 & 261L	General Botany and General Botany Laboratory	4
BIO XXX: Select one Biology course		4
BIO 271 & BIO 270L	Ecology and Comparative Vertebrate Anatomy & Physiology Laboratory	
BIO 278 & 278L	and Cell Biology Laboratory	
BIO 350 & 350L	Parasitology and Parasitology Laboratory	
CHM 221 & 221L	General Chemistry I and General Chemistry I Laboratory	4
CHM 222 & 222L	General Chemistry II and General Chemistry II Laboratory	4
MTH 184	Calculus I	4
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
Credits		34

Third Year

BIO XXX	Select one of the following:	4
BIO 263 & 263L	and Vertebrate Embryology Lab	
BIO 264 & 264L	Concepts of Developmental Biology and Concepts of Developmental Biology Labor	
BIO XXX: Select one of the following:		4
BIO 270 & 270L	Comparative Vertebrate Anatomy and Physiology and Comparative Vertebrate Anatomy & Physiology Laboratory	
BIO 272 & 272L	Human Anatomy and Human Anatomy Laboratory	
CSC 150	Computer Literacy	3
BIO 310 & 310L	General Microbiology and General Microbiology Laboratory	4
CHM 321 & 321L	Organic Chemistry I and Organic Chemistry I Laboratory	5
CHM 322 & 322L	Organic Chemistry II and Organic Chemistry II Laboratory	5
PHY 152 & 152L	General Physics and General Physics Laboratory I	4
PHY 153 & 153L	General Physics and General Physics Laboratory II	4
Credits		33

Fourth Year

BIO 351 & 351L	Principles of Genetics and Principles of Genetics Laboratory	4
BIO 364	Seminar and Colloquium in Biology	1
Select one of the following:		4
BIO 459 & 459L	General Physiology and General Physiology Laboratory	
BIO 461 & 461L	Plant Physiology and Plant Physiology Laboratory	
BIO 469 & 469L	Biochemistry and Biochemistry Laboratory	4
Select one Humanities Elective of the following:		3
FIA 201	Basic Art Appreciation	
HUM 210	Humanities	
MUS 301	Music Appreciation	
ENG 207	Introduction to World Literature	
Select two Cultural Electives of the following:		6
HIS 335	African-American History	
HIS 336	African-American History Since 1865	
MUS 234	African-American Music	
HRP 320	African American Health	
ENG 383	African-American Literature, 1940-PRESENT	
FIA 370	African/Afro-American Art	
XXX XXX	Free Elective	3
Credits		25
Total Credits		120

All Biology courses require students to take both lecture (3 credits) and lab (1 credit) with the exception of BIO 364 Seminar and Colloquium in Biology and BIO 495 Biostatistics. The lab for BIO 474 Molecular Biology is 2 credits.

Bachelor of Science in Biology - Teacher Licensure Endorsement

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	34
Restricted Electives	33
Education	27
Total Credit Hours	134

Biology 2 Curriculum

Course	Title	Credits
First Year		
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
BIO 110 & 110L	General Biology and General Biology Laboratory	4
BIO 111	General Biology II	3
BIO 111L	General Biology II Laboratory	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 I	3
MTH 151	College Algebra	3
MTH 153	College Algebra & Trigonometry	3
PED 100	Fundamentals of Fitness for Life	1
CSC 150 or CSC 200	Computer Literacy or Advanced Computer Concepts	3
Credits		31
Second Year		
SEM 201	Spartan Seminar 201	1
BIO 260	Integrative Zoology	3
BIO 260L	Integrative Zoology Laboratory	1
BIO 261	General Botany	3
BIO 261L	General Botany Laboratory	1
BIO 271 & 271L	Ecology and Ecology Laboratory	4
CHM 221	General Chemistry I	3
CHM 222	General Chemistry II	3
CHM 221L	General Chemistry I Laboratory	1
CHM 222L	General Chemistry II Laboratory	1
EDU 201	Foundations of Education	3
HUM 210	Humanities	3
Select one Cultural Elective of the following:		3
ENG 383	African American Literature	
FIA 370	African/African-American Art	
HIS 335	African American History	
HIS 336	African American History Since 1865	
HRP 320	African American Health	
MUS 234	African American Music	
XXX 111	Introduction to French, Spanish, German or Arabic	3

ENG 285	Public Speaking	3
Credits		36

Third Year

BIO 351 & 351L	Principles of Genetics and Principles of Genetics Laboratory	4
BIO 310 & 310L	General Microbiology and General Microbiology Laboratory	4
CHM 321	Organic Chemistry I	3
CHM 321L	Organic Chemistry I Laboratory	2
CHM 322	Organic Chemistry II	3
CHM 322L	Organic Chemistry II Laboratory	2
PHY 152	General Physics	3
PHY 152L	General Physics Laboratory I	1
PHY 153	General Physics	3
PHY 153L	General Physics Laboratory II	1
BIO 272 & 272L	Human Anatomy and Human Anatomy Laboratory	4
SED 385	Curriculum & Instruction in Science	3
SED 380	Foundations of Secondary School Methods	3

Credits		36
----------------	--	-----------

Fourth Year

BIO 278 & 278L	Cell Biology and Cell Biology Laboratory	4
BIO 459 & 459L	General Physiology and General Physiology Laboratory	4
BIO 364	Seminar & Colloquium in Biology	1
SED 405	Reading in the Content Area	3
SCI 401	Geological Material and Processes	3
EDU 486	Human Growth and Development	3
SED 499	Directed Teaching (internship)	12

Credits		30
----------------	--	-----------

Total Credits		133
----------------------	--	------------

Chemistry

Dr. Suely Black
Department Chair
(757) 823-2285

The Department of Chemistry provides the knowledge, skills and training necessary for chemistry students seeking the B.S. degree with a major in Chemistry and supports undergraduate programs in other disciplines. The Chemistry Department also provides innovative research opportunities for students wishing to explore the fascinating world 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.

Chemistry Tracks

The Chemistry Department offers several chemistry based tracks leading to a B. S. degree in 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.

All B.S. Chemistry tracks provide you with a strong background in chemical knowledge, analytical and laboratory skills, oral and written communication proficiency, and experiences working independently or in a team.

Chemistry (<https://www.nsu.edu/chemistry/bs-chemistry/>)

The B.S. Chemistry degree prepares you for a career in industry and graduate school in chemistry or related disciplines.

Chemistry Minor Core (<https://www.nsu.edu/chemistry/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.

DNIMAS (<https://www.nsu.edu/dnimas/chemistry/>) (BS.CHM.DNIMAS)

The Dozoretz National Institute for Mathematics and Applied Sciences (DNIMAS) offers a rigorous and demanding program to qualifying students. Successful completion of the DNIMAS program results in a Bachelor of Science in Chemistry.

Pre-Medicine (<https://www.nsu.edu/chemistry/pre-med/>) (BS.CHM.PM)

The B.S. Chemistry with an emphasis in Pre-Medicine prepares you for medical, dental, veterinary, and other bio-related professional schools. Please be aware, this is not a degree in Pre-Medicine.

Pre-Medicine DNIMAS (<https://www.nsu.edu/dnimas/chemistry-pre-med/>) (B.S.CHM.PM.DNIMAS)

Pre-Med DNIMAS offers a rigorous and demanding B.S. Chemistry/Pre-Med program to students who qualify.

Teacher Licensure (<https://www.nsu.edu/chemistry/teacher-licensure/>)

Teacher Licensure combines chemistry and pedagogy, preparing students to work in K-12 education.

M.S. Materials Science (<https://www.nsu.edu/chemistry/m-s-materials-science/>) (B.S. Chemistry/M.S. Materials Science)

M.S. Materials Science is a 5 year program that further prepares students to assume positions of leadership in materials-related jobs.

Chemistry Tracks

- Bachelor of Science in Chemistry (p. 168)
- Bachelor of Science in Chemistry - Pre-Medicine Concentration (p. 170)
- Bachelor of Science in Chemistry - Secondary Education Concentration (p. 171)

- Bachelor of Science in Chemistry and Master of Science in Materials Science - Five-Year Dual Degree (p. 172)
- Minor in Chemistry (p. 168)

Minor in Chemistry

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 advances courses listed below (all course work listed below must be passed with a grade of "C" or higher).

CURRICULUM

New Chemistry Minor Options

Code	Title	Credits
Chemistry Minor Core ¹		
CHM 321 & 321L	Organic Chemistry I and Organic Chemistry I Laboratory ²	5
Advanced Courses		
<i>Option 1: Analytical Chemistry Option</i>		
CHM 331 & 331L	Analytical Chemistry I and Analytical Chemistry I Laboratory	5
CHM 332 & 332L	Analytical Chemistry II and Analytical Chemistry II Laboratory	5
CHM 497 or CHM 498	Introduction to Research	1
<i>TOTAL (Including Core) 16</i>		
<i>OPTION 2: Biochemistry Option</i>		
CHM 322 & 322L	Organic Chemistry II and Organic Chemistry II Laboratory	5
CHM 431 & 431L	Biochemistry I and Biochemistry I Laboratory	5
CHM 497 or CHM 498	Introduction to Research	1
<i>TOTAL (Including Core) 16</i>		
<i>OPTION 3: Physical Chemistry Option</i>		
CHM 345	Math Methods/Logic for Physical Science	3
CHM 361	Physical Chemistry I	3
CHM 362 & CHM 363L	Physical Chemistry II and Physical Chemistry Laboratory	5
<i>TOTAL (Including Core) 16</i>		
Total Credits		38

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*.

Bachelor of Science in Chemistry

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	34
Major Requirements	54
Electives	7
Other Requirements	26
Total Credit Hours	121

Curriculum

First Year		Credits
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
CHM 231 or CHM 231H	General Chemistry I or General Chemistry I Honors	3
CHM 231R	General Chemistry Applications I	1
CHM 221L	General Chemistry I Laboratory	1
CHM 232 or CHM 232H	General Chemistry II or General Chemistry II Honors	3
CHM 232R	General Chemistry Applications II	1
CHM 222L	General Chemistry II Laboratory	1
CSC 170	Computer Programming I	3
CSC 170L	Computer Programming Laboratory I	1
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
MTH 153	College Algebra & Trigonometry	3
MTH 184	Calculus I	4
PED 100	Fundamentals of Fitness for Life	1
Credits		32
Second Year		
SEM 201	Spartan Seminar 201	1
CHM 321	Organic Chemistry I	3
CHM 321L	Organic Chemistry I Laboratory	2
CHM 322	Organic Chemistry II	3
CHM 323L	Synthesis and Analysis in Organic Chemistry Laboratory	2
CHM 331	Analytical Chemistry I	3
CHM 331L	Analytical Chemistry I Laboratory	2
MTH 251	Calculus II	4
MTH 252	Calculus III	4
PHY 152	General Physics	3
PHY 152L	General Physics Laboratory I	1
PHY 153	General Physics	3
PHY 153L	General Physics Laboratory II	1
Credits		32
Third Year		
ENG 285	Public Speaking	3
HIS XXX	History from the Core	3
BIO 110 & 110L	General Biology and General Biology Laboratory	4
CHM 332	Analytical Chemistry II	3
CHM 332L	Analytical Chemistry II Laboratory	2
CHM 345	Mathematical Methods & Logic for the Physical Sciences	3
CHM 451 & CHM 452	Chemistry Seminar I and Chemistry Seminar II	2
CHM 361	Physical Chemistry I	3
CHM 362	Physical Chemistry II	3
CHM 363L	Physical Chemistry Laboratory	2
Credits		28

Fourth Year

CHM 497 & CHM 498	Introduction to Research and Introduction to Research	2
CHM 473	Advanced Inorganic Chemistry	3
SOC 101	Introduction to the Social Sciences	3
CHM XXX	Chemistry (Restrictive Electives) ¹	7
XXX XXX	Cultural Elective from the Core	6
CHM 431	Biochemistry I	3
CHM 431L	Biochemistry I Laboratory	2
XXX XXX	Humanities from the Core	3
Credits		29
Total Credits		121

¹ Select 6 hours from: CHM 397, CHM 398, CHM 473L, CHM 431L, CHM 432, CHM 432L, CHM 475, CHM 481, CHM 497, CHM 498, CHM 474 and CHM 474H
(Maximum of one elective hour of research).

Bachelor of Science in Chemistry - Pre-Medicine Concentration

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	34
Major Requirements	56
Electives	6
Other Requirements	27
Total Credit Hours	123

Curriculum

First Year		Credits
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
CHM 231 or CHM 231H	General Chemistry I or General Chemistry I Honors	3
CHM 231R	General Chemistry Applications I	1
CHM 221L	General Chemistry I Laboratory	1
CHM 232 or CHM 232H	General Chemistry II or General Chemistry II Honors	3
CHM 232R	General Chemistry Applications II	1
CHM 222L	General Chemistry II Laboratory	1
CSC 170	Computer Programming I	3
CSC 170L	Computer Programming Laboratory I	1
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
MTH 153	College Algebra & Trigonometry	3
MTH 184	Calculus I	4
PED 100	Fundamentals of Fitness for Life	1

Credits 32

Second Year

SEM 201	Spartan Seminar 201	1
CHM 321	Organic Chemistry I	3
CHM 321L	Organic Chemistry I Laboratory	2
CHM 322	Organic Chemistry II	3
CHM 323L	Synthesis and Analysis in Organic Chemistry Laboratory (or CHM 323LH)	2
CHM 331	Analytical Chemistry I	3
CHM 331L	Analytical Chemistry I Laboratory	2
MTH 251	Calculus II	4
MTH 252	Calculus III	4
PHY 152	General Physics	3
PHY 152L	General Physics Laboratory I	1
PHY 153	General Physics	3
PHY 153L	General Physics Laboratory II	1

Credits 32

Third Year

ENG 285	Public Speaking	3
BIO XXX	Restricted Biology Elective	3
BIO 300 Level or higher		
HIS XXX	History from the Core	3

BIO 110 & 110L	General Biology and General Biology Laboratory	4
CHM 332	Analytical Chemistry II	3
CHM 332L	Analytical Chemistry II Laboratory	2
CHM 345	Mathematical Methods & Logic for the Physical Sciences	3
CHM 451	Chemistry Seminar I	1
CHM 361	Physical Chemistry I	3
CHM 362	Physical Chemistry II	3
CHM 363L	Physical Chemistry Laboratory	2

Credits 30

Fourth Year

CHM 497/498	Introduction to Research	1
CHM 473	Advanced Inorganic Chemistry	3
BIO XXX	Restricted Biology Elective	3
SOC 101	Introduction to the Social Sciences	3
XXX XXX	Humanities from the Core	3
XXX XXX	Cultural Elective from the Core	6
CHM 431	Biochemistry I	3
CHM 431L	Biochemistry I Laboratory	2
CHM 432	Biochemistry II	3
CHM 432L	Biochemistry II Laboratory	2

Credits 29

Total Credits 123

Bachelor of Science in Chemistry - Secondary Education Concentration

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Core Major	42
Requirements Electives	17
Other Requirements	23
Total Credit Hours	122

Curriculum

First Year		Credits
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
CHM 231	General Chemistry I	3
CHM 231R	General Chemistry Applications I	1
CHM 221L	General Chemistry I Laboratory	1
CHM 232	General Chemistry II	3
CHM 232R	General Chemistry Applications II	1
CHM 222L	General Chemistry II Laboratory	1
CSC 170	Computer Programming I	3
CSC 170L	Computer Programming Laboratory I	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 & Trigonometry	3
MTH 184	Calculus I	4
PED 100	Fundamentals of Fitness for Life	1

Credits 35

Second Year

SEM 201	Spartan Seminar 201	1
CHM 321	Organic Chemistry I	3
CHM 321L	Organic Chemistry I Laboratory	2
CHM 322	Organic Chemistry II	3
CHM 331	Analytical Chemistry I	3
CHM 331L	Analytical Chemistry I Laboratory	2
EDU 201	Foundations of Education	3
EDU 381	Classroom and Behavior Management	3
MTH 251	Calculus II	4
PHY 152	General Physics	3
PHY 152L	General Physics Laboratory I	1
PHY 153	General Physics	3
PHY 153L	General Physics Laboratory II	1

Credits 32

Third Year

BIO 110	General Biology	3
BIO 110L	General Biology Laboratory	1
CHM 332	Analytical Chemistry II	3
CHM 332L	Analytical Chemistry II Laboratory	2
CHM 451	Chemistry Seminar I	1

CHM 361	Physical Chemistry I	3
CHM 363L	Physical Chemistry Laboratory	2
ENG 285	Public Speaking	3
SED 385	Curriculum and Instructional Procedures in Science	3
SOC 101	Introduction to the Social Sciences	3
XXX XXX	Cultural Elective (from the General Education Core)	3
XXX XXX	Humanities Elective (from the General Education Core)	3

Credits 30

Fourth Year

CHM 452	Chemistry Seminar II	1
CHM 497 or CHM 498	Introduction to Research or Introduction to Research	1
CHM 431	Biochemistry I	3
CHM 473	Advanced Inorganic Chemistry	3
PSY 228	Developmental Psychology	3
SED 405	Reading in the Content Area	3
Only 3 credit hours of SED 499 is required for Chemistry major students		3
SED 499	Directed Teaching (internship)	
XXX XXX	Electives	2
XXX XXX	Cultural Elective (from the General Education Core)	3
XXX XXX	Humanities (from the General Education Core)	3

Credits 25

Total Credits 122

¹ May be taken during the freshman year upon the approval of the advisor.

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).

Code	Title	Credits
EDU 201	Foundations of Education	3
SED 233	Seminar in Assessment and Evaluation	3
SED 380	Foundations of Secondary School Methods and Management Instruction	3
SED 384	Curriculum & Instruction in Math	3
SED 499	Directed Teaching (internship)	12

Bachelor of Science in Chemistry and Master of Science in Materials Science - Five-Year Dual Degree

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	34
Major Requirements	78
Electives	9
Other Requirements	29
Total Credit Hours	150

Chemistry Curriculum

Course	Title	Credits
First Year		
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
CHM 223A & CHM 221L	General Chemistry I and General Chemistry I Laboratory ¹	5
CHM 224A & CHM 222L	General Chemistry II and General Chemistry II Laboratory	5
CSC 170	Computer Programming I	3
CSC 170L	Computer Programming I Laboratory	1
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
MTH 153	College Algebra & Trigonometry	3
MTH 184	Calculus I	4
PED 100	Fundamentals of Fitness for Life	1
Credits		32
Second Year		
SEM 201	Spartan Seminar 201	1
ENG 285	Public Speaking	3
CHM 321 & 321L	Organic Chemistry I and Organic Chemistry I Laboratory	5
CHM 322 & 322L	Organic Chemistry II and Organic Chemistry II Laboratory	5
CHM 331 & 331L	Analytical Chemistry I and Analytical Chemistry I Laboratory	5
MTH 251	Calculus II	4
MTH 252	Calculus III	4
PHY 160 & 160L	University Physics I and University Physics Laboratory I	5
PHY 161 & 161L	University Physics II and University Physics Laboratory II	5
Credits		37
Third Year		
Select one of the following History from the Core:		3
HIS 100	History of World Societies I	
HIS 101	History of World Societies II	
HIS 102	United States History to 1865	
HIS 103	United States History Since 1865	
Select one of the following Humanities from the Core:		3

HUM 210	Humanities	
HUM 211	Humanities	
ENG 383	African American Literature	
MUS 234	African American Music	
CHM 332 & 332L	Analytical Chemistry II and Analytical Chemistry II Laboratory	5
CHM 361	Physical Chemistry I	3
CHM 362	Physical Chemistry II	3
CHM 363L	Physical Chemistry Laboratory	2
CHM 345	Math Methods/Logic for Physical Science	3
MTH 372	Differential Equations	3
SOC 101	Introduction to the Social Sciences	3

Credits **28**

Fourth Year

Select one of the following Cultural Elective from the Core:		3
HIS 335	African American History	
HIS 336	African American History Since 1865	
HIS 370	Early African History/Cultures to 1600	
HIS 371	African History/Cultures 1600-PRESENT	
HIS 377	Black Leaders, Then and Now	
ENG 383	African American Literature	
PSY 340	Psychology of the African American	
SOC 237	Racial & Ethnic Minorities	
POS 315	African American Politics	
MUS 234	African American Music	
Select one of the following Humanities from the Core:		3
HUM 210	Humanities	
HUM 211	Humanities	
ENG 383	African American Literature	
MUS 234	African American Music	
Select one of the following Electives:		3
CHM 431	Biochemistry I	
CHM 432	Biochemistry II	
CHM 431L	Biochemistry I Laboratory	
CHM 432L	Biochemistry II Laboratory	
CHM 481	Special Topics in Chemistry	
CHM 397	Introduction to Research	
CHM 398	Introduction to Research	
CHM 497	Introduction to Research	
CHM 498	Introduction to Research	
CHM 451	Chemistry Seminar I	1
CHM 473	Advanced Inorganic Chemistry	3
CHM 545	Mathematical Method	3
MSE 530	Materials Science	3
BIO 110 & 110L	General Biology and General Biology Laboratory	4
PHY 356	Heat and Thermodynamics	3
PHY 580	Quantum Mechanics for Material Science	3
Credits		29
Total Credits		126

¹ May be taken during the freshman year upon the approval of the advisor.

Materials Science Curriculum

Course	Title	Credits
Summer		
MSE 697	Research I	1
Credits		1
Fifth Year		
MSE 533	Polymers/Composites	3
MSE 535	Electronic and Optic Material	3
MSE 575	Basic Instrumentation for Material Sci	3
MATS 799	Thesis	3
Select three of the following Technical Electives:		9
CHM 573	Advanced Inorganic Chemistry	
CHM 633	Molecular Dynamics	
CHM 663	Atomic/ Molecular Spectroscopy	
PHY 653	Solid State Physics	
PHY 675	Electricity and Magnetism	
MATS 610	Special Topics	
Credits		21
Total Credits		22

Computer Science

Computer Science

Dr. Felicia Doswell
Department Chair
(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 Bachelor of Science degree in Computer Science at Norfolk State University is accredited by the Computing Accreditation Commission of ABET, <https://www.abet.org> (<https://www.abet.org/>), under the General Criteria and the Computer Science Program Criteria.

Program Educational Objectives

A graduate of the Undergraduate Computer Science Program at Norfolk State University will be able to do the following:

1. Make significant contributions to work products independently and within multi-disciplinary teams;
2. Communicate effectively in oral, written, and graphical forms;
3. Pursue advanced study or engage in professional practice within the computing profession;
4. Engage in the practice of lifelong learning to educate themselves about advancements and emerging technologies within and surrounding the computing profession;
5. Practice ethical, social, and professional behaviors in all endeavors;
6. Apply computing/computer science principles and practices to solve a variety of problems.

Student Learning Outcomes

Upon graduation, computer science students will be able to demonstrate the following skills:

1. Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions;
2. Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline;
3. Communicate effectively in a variety of professional contexts;
4. Recognize professional responsibilities and make informed judgments in computing practice, taking into account legal, ethical, diversity, equity, inclusion, and accessibility principles consistent with the mission of the institution. based on legal and ethical principles;
5. Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
6. Apply computer science theory and software development fundamentals to produce computing-based solutions.

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 SEM 101 Spartan Seminar 101 (plus SEM 102 and SEM 201), all English, Science, Mathematics, Computer Science courses, and all courses with the ITE, CIT, and IMT prefixes.

Information Technology

Dr. Felicia Doswell
Department Chair
(757) 823-9454

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 lifelong 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 be able to demonstrate the following:

1. An ability to apply knowledge of computing and mathematics appropriate to the discipline;
2. An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution;
3. An ability to design, implement and evaluate a computer-based system, process, component, or program to meet desired needs;
4. An ability to function effectively on teams to accomplish a common goal;
5. An understanding of professional, ethical, legal, security, and social issues and responsibilities;
6. An ability to communicate effectively with a range of audiences;
7. An ability to analyze the local and global impact of computing on individuals, organizations and society;
8. Recognition of the need for, and an ability to engage in, continuing professional development;
9. An ability to use current techniques, skills, and tools necessary for computing practices;
10. An ability to use and apply current technical concepts and practices in the core information technologies;
11. An ability to identify and analyze user needs and take them into account in the selection, creation, evaluation and administration of computer-based systems;
12. An ability to effectively integrate IT-based solutions into the user environment;
13. An understanding of best practices and standards and their application;
14. An ability to assist in the creation of an effective project plan.

Computer Science Programs

B.S. PROGRAMS

- Bachelor of Science in Computer Science - Standard Track (p. 176)
- Bachelor of Science in Computer Science - Computer Engineering Track (p. 178)
- Bachelor of Science in Computer Science - IA Track (p. 179)
- Bachelor of Science in Computer Science - Cybersecurity Track (<https://catalog.nsu.edu/undergraduate/science-engineering-technology/computer-science/computer-science-bs-track-cyb/>)
- Bachelor of Science in Computer Science - Software Engineering Track (p. 180)
- Bachelor of Science in Information Technology (p. 182)
- Minor in Game Design and Development (<https://catalog.nsu.edu/undergraduate/science-engineering-technology/computer-science/computer-science-minor-game-design-track/>)
- Minor in Computer Science (p. 181)

B.S./M.S. ACCELERATED PROGRAMS

- B.S./M.S. Accelerated Program in Computer Science (<https://catalog.nsu.edu/graduate/science-engineering-technology/computer-science/ms-computer-science/#cscbsmstext>)
- B.S./M.S. Accelerated Program in Cybersecurity (<https://catalog.nsu.edu/graduate/science-engineering-technology/computer-science/ms-cybersecurity/#programtext>)

Bachelor of Science in Computer Science - Standard Track

Summary of Graduation Requirements

Subject Area	Credits
General Education (p. 38)	40
Core Major	53
Requirements Electives	27
Other Requirements	0
Total Credit Hours	120

Curriculum

First Year		Credits
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
CSC 101	Introduction to the Computer Science Profession	1
CSC 170	Computer Programming I	3
CSC 170L	Computer Programming Laboratory I	1
MTH 153	College Algebra & Trigonometry	3
ENG 101	College English I	3
PED 100	Fundamentals of Fitness for Life	1
CSC 260	Computer Programming II	3
CSC 260L	Computer Programming II Laboratory	1
MTH 184	Calculus I	4
ENG 102	College English II	3
XXX XXX	Social Science Elective	3
HED 100	Personal and Community Health	2
Credits		30

Second Year

SEM 201	Spartan Seminar 201	1
CSC 372	Data Structures	3
Select one Laboratory Science Elective and the corresponding Laboratory of the following:		4
BIO 110 & 110L	General Biology and General Biology Laboratory	
PHY 152 & 152L	General Physics and General Physics Laboratory I	
CHM 221 & 221L	General Chemistry I and General Chemistry I Laboratory	
MTH 251	Calculus II	4
MTH 371	Discrete Mathematical Structures	4
CSC 268	Comp Organi & Assem	3
CSC 295	Java Applications Programming	3
CSC 361	Survey of Programming Languages	3
ENG 303	Professional & Technical Writing	3
ENG 285	Public Speaking	3
Credits		31

Third Year

CSC 292	Unix and C Programming	3
CSC 380	Software Engineering	3
CSC 468	Computer Architecture	3
MTH 351	Probability & Statistics I	3

Select one Laboratory Science Elective Sequence of the following:

4

PHY 152	General Physics	
BIO 110 & 110L	General Biology and General Biology Laboratory	
CHM 221 & 221L	General Chemistry I and General Chemistry I Laboratory	
CSC 430	Data Communications	3
XXX XXX	Computer Science Electives (300 level or above)	3
XXX XXX	Humanities or Foreign Languages	3
ENG 207	Introduction to World Literature	
FIA 201	Basic Art Appreciation	
MUS 301	Music Appreciation	
CSC 275	Fundamentals of Cybersecurity	3

Credits **28**

Fourth Year

CSC 498	Computer Science Seminar I	2
CSC 464	Operating Systems	3
XXX XXX	Computer Science Electives (300 level or above)	6
XXX XXX	Social Science Cultural Elective	3
HIS 335	African-American History	
HIS 336	African-American History Since 1865	
HIS 371	Modern African History & Cultures 1600-PRESENT	
HRP 320	African American Health	
XXX XXX	Humanities Cultural Elective I	3
ENG 383	African-American Literature, 1940-PRESENT	
MUS 234	African-American Music	
CSC 499	Computer Science Seminar II	2
XXX XXX	Computer Science or Mathematics Elective (300 level or above)	9
XXX XXX	Free Elective	3

Credits **31**

Total Credits **120**

Major Electives - At least 15 Credit Hours

Code	Title	Credits
CSC 312	Topics in Information Technology	3
CSC 313	Network Administration	3
CSC 314	Advanced Internet Programming	3
CSC 316	Introduction to Cloud Computing	3-0
CSC 360	Interface Design	3
CSC 369	Introduction to 3D Animation and Visual	3
CSC 390	Technical Strategies in Game Design	3
CSC 373	Algorithms Design and Analysis	3
CSC 395	Mobile App Development Using Android	3-0
CSC 411	Web Server Administration	3
CSC 420	Database Principles and Design	3
CSC 422	Database Implementation	3
CSC 432	Wireless Internet of Things	3
CSC 435	Computer Security I	3

CSC 445	Computer Network Defense	3
CSC 449	Cryptography and Network Security	3
CSC 466	Advanced Computer Topics I	3
CSC 467	Adv Cmptr Topic II	3
CSC 470	Artificial Intelligence	3
CSC 471	Introduction to Game Design and Development	3
CSC 472	3D Game Programming	3
CSC 476	Advanced CompTop III	3
CSC 477	Adv Comp Topic IV	3
CSC 485	Software Quality Assurance and Testing	3
CSC 486	Software Project Management	3
CSC 487	Engineering Secure Software Systems	3
CSC 488	Principles of Distributed Software Syste	3
CSC 490	Game Design Capstone Project	3
CSC 492	Independent Study	3
CSC 494	Digital Forensics	3

Bachelor of Science in Computer Science - Computer Engineering Track

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	73
Electives	12
Other Requirements	0
Total Credit Hours	125

Curriculum

First Year		Credits
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
CSC 101	Introduction to the Computer Science Profession	1
CSC 170	Computer Programming I	3
CSC 170L	Computer Programming Laboratory I	1
MTH 153	College Algebra & Trigonometry	3
ENG 101	College English I	3
PED 100	Fundamentals of Fitness for Life	1
CSC 260	Computer Programming II	3
CSC 260L	Computer Programming II Laboratory	1
CSC 268	Comp Organi & Assem	3
MTH 184	Calculus I	4
HED 100	Personal and Community Health	2
ENG 102	College English II	3
Credits		30

Second Year

SEM 201	Spartan Seminar 201	1
CSC 372	Data Structures	3
PHY 160 & 160L	University Physics I and University Physics Laboratory I	5
MTH 251	Calculus II	4
XXX XXX	Social Science Elective	3
HIS 101	Hist of Civilizat	
HIS 103	United States History Since 1865	
ECN 200	Basic Principles of Economics	
BUS 175	Introduction to Business & Entrepreneurship	
SOC 101	Introduction to the Social Sciences	
PHY 161 & 161L	University Physics II and University Physics Laboratory II	5
MTH 252	Calculus III	4
CSC 295	Java Applications Programming	3
ENG 285	Public Speaking	3
Credits		31

Third Year

EEN 201	Electrical Network Theory I	3
EEN 201L	Electrical Network Theory I Laboratory	1
MTH 351	Probability & Statistics I	3

MTH 371	Discrete Mathematical Structures	4
CSC 292	Unix and C Programming	3
CSC 361	Survey of Programming Languages	3
MTH 372	Differential Equations	3
EEN 231	Digital Electronics Logic Design	3
EEN 231L	Digital Logic Design Laboratory	1
CSC 380	Software Engineerng	3
ENG 303	Professional & Technical Writing	3
EEN 203	Electronic Principles	3
Credits		33

Fourth Year

EEE 431	Microcontrollers	3
CSC 275	Fundamentals of Cybersecurity	3
XXX XXX	Humanities Elective	3
CSC 468	Computer Architecture	3
CSC 498	Computer Science Seminar I	2
XXX XXX	Social Science Cultural Elective	3
XXX XXX	Humanities Cultural Elective	3
CSC XXX	Computer Science Elective 300 level or above	3
CSC 430	Data Communications	3
CSC 464	Operating Systems	3
CSC 499	Computer Science Seminar II	2
Credits		31
Total Credits		125

Bachelor of Science in Computer Science - IA Track

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	56
Electives	24
Other Requirements	0
Total Credit Hours	120

Curriculum

First Year		Credits
PED 100	Fundamentals of Fitness for 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 Laboratory I	1
CSC 260	Computer Programming II	3
CSC 260L	Computer Programming II Laboratory	1
ENG 101	College English I	3
ENG 102	College English II	3
MTH 153	College Algebra & Trigonometry	3
MTH 184	Calculus I	4
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
XXX XXX	Social Science Elective	3
Credits		30
Second Year		
SEM 201	Spartan Seminar 201	1
CSC 268	Comp Organi & Assem	3
ENG 303	Professional & 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
PSY 210	Introduction to Psychology	3
ENG 285	Public Speaking	3
Select one Laboratory Science Elective of the following:		4
BIO 110 & 110L	General Biology and General Biology Laboratory	
PHY 152 & 152L	General Physics and General Physics Laboratory I	
CHM 221 & 221L	General Chemistry I and General Chemistry I Laboratory	
Credits		31
Third Year		
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 & Statistics I	3

CSC 430	Data Communications	3
CSC 449	Cryptography and Network Security	3
XXX XXX	Humanities or Foreign Language	3
Select one Laboratory Science Elective Sequence of the following:		4

BIO 110 & 110L	General Biology and General Biology Laboratory	
PHY 152 & 152L	General Physics and General Physics Laboratory I	
CHM 221 & 221L	General Chemistry I and General Chemistry I Laboratory	

Select one Laboratory Science Elective Sequence of the following: 4

BIO 111 & 111L	General Biology II and General Biology II Laboratory	
PHY 153 & 153L	General Physics and General Physics Laboratory II	
CHM 222 & 222L	General Chemistry II and General Chemistry II Laboratory	

Credits 32

Fourth Year

CSC 445	Computer Network Defense	3
CSC 313	Network Administration	3
XXX XXX	Mathematics Elective (300 level or above)	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 494	Digital Forensics	3
XXX XXX	Humanities Cultural Elective I	3
XXX XXX	Social Sciences Cultural Elective	3

Credits 28

Total Credits 121

Bachelor of Science in Computer Science - Software Engineering Track

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	56
Electives	24
Other Requirements	0
Total Credit Hours	120

Curriculum

First Year		Credits
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
CSC 101	Introduction to the Computer Science Profession	1
CSC 170	Computer Programming I	3
CSC 170L	Computer Programming Laboratory I	1
MTH 153	College Algebra & Trigonometry	3
ENG 101	College English I	3
PED 100	Fundamentals of Fitness for Life	1
CSC 260	Computer Programming II	3
CSC 260L	Computer Programming II Laboratory	1
MTH 184	Calculus I	4
ENG 102	College English II	3
XXX XXX	Social Science Elective	3
HIS 101	Hist of Civilizat	
HIS 103	United States History Since 1865	
BUS 175	Introduction to Business & Entrepreneurship	
ECN 200	Basic Principles of Economics	
SOC 101	Introduction to the Social Sciences	
HED 100	Personal and Community Health	2
Credits		30
Second Year		
SEM 201	Spartan Seminar 201	1
CSC 295	Java Applications Programming	3
Select one Laboratory Science Elective of the following:		4
BIO 110 & 110L	General Biology and General Biology Laboratory	
PHY 152 & 152L	General Physics and General Physics Laboratory I	
CHM 221 & 221L	General Chemistry I and General Chemistry I Laboratory	
MTH 251	Calculus II	4
MTH 371	Discrete Mathematical Structures	4
CSC 268	Comp Organi & Assem	3
CSC 372	Data Structures	3
CSC 292	Unix and C Programming	3
CSC 275	Fundamentals of Cybersecurity	3
ENG 285	Public Speaking	3
Credits		31

Third Year

CSC 373	Algorithms Design and Analysis	3
ENG 303	Professional & Technical Writing	3
XXX XXX	Social Science Cultural Elective	3
HIS 335	African-American History	
HIS 336	African-American History Since 1865	
HIS 371	Modern African History & Cultures 1600-PRESENT	
HRP 320	African American Health	
MTH 351	Probability & Statistics I	3
Select one Laboratory Science Elective Sequence of the following:		4
BIO 110 & 110L	General Biology and General Biology Laboratory	
PHY 152 & 152L	General Physics and General Physics Laboratory I	
CHM 221 & 221L	General Chemistry I and General Chemistry I Laboratory	
CSC 361	Survey of Programming Languages	3
CSC 420	Database Principles and Design	3
CSC 380	Software Engineering	3
XXX XXX	Computer Science Elective 300 level or above	3
XXX XXX	Humanities or Foreign Language	3
ENG 207	Introduction to World Literature	
FIA 201	Basic Art Appreciation	
MUS 301	Music Appreciation	
Credits		31

Fourth Year

CSC 498	Computer Science Seminar I	2
CSC 464	Operating Systems	3
CSC 485	Software Quality Assurance and Testing	3
CSC 430	Data Communications	3
CSC 486	Software Project Management	3
CSC 499	Computer Science Seminar II	2
CSC 468	Computer Architecture	3
XXX XXX	Humanities Cultural Elective	3
ENG 383	African-American Literature, 1940-PRESENT	
MUS 234	African-American Music	
CSC 488	Principles of Distributed Software Syste	3
CSC 487	Engineering Secure Software Systems	3
Credits		28
Total Credits		120

Minor in Computer Science

Curriculum

A Computer Science Minor consists of the following 18 credit hours of required courses:

Code	Title	Credits
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 Credits		18

Bachelor of Science in Information Technology

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	53
Electives	27
Other Requirements	0
Total Credit Hours	120

Curriculum

First Year		Credits
CSC 101	Introduction to the Computer Science Profession	1
ITE 111	Information Technology Principles	3
CSC 170 & 170L	Computer Programming I and Computer Programming Laboratory I	4
CSC 260 & 260L	Computer Programming II and Computer Programming II Laboratory	4
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
MTH 153	College Algebra & Trigonometry	3
MTH 184	Calculus I	4
PED 100	Fundamentals of Fitness for Life	1
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
Credits		30

Second Year

SEM 201	Spartan Seminar 201	1
ITE 195	Introduction to Internet Programming	3
ITE 211	Information Technology Operating Systems	3
CSC 268	Comp Organi & Assem	3
ITE 311	Fundamentals of Networking	3
CSC 360	Interface Design	3
MTH 371	Discrete Mathematical Structures	4
Select Laboratory Sequence of Biology, Chemistry or Physics of the following:		8
Biology		
BIO 110	General Biology	
BIO 110L	General Biology Laboratory	
BIO 111	General Biology II	
BIO 111L	General Biology II Laboratory	
Chemistry		
CHM 221	General Chemistry I	
CHM 221L	General Chemistry I Laboratory	
CHM 222	General Chemistry II	
CHM 222L	General Chemistry II Laboratory	
Physics		
PHY 152	General Physics	
PHY 152L	General Physics Laboratory I	
PHY 153	General Physics	

PHY 153L	General Physics Laboratory II	
Select one Concentration Electives (p. 182)		3
Credits		31
Third Year		
CSC 380	Software Engineering	3
CSC 420	Database Principles and Design	3
CSC 435	Computer Security I	3
IMT 244	Industrial Specification & Technical Documentation	3
MTH 250	Elementary Statistics Concepts	3
ENG 285	Public Speaking	3
Select two Concentration Electives (p. 182)		6
XXX XXX	Humanities Elective	3
XXX XXX	Social Science Elective	3
Credits		30
Fourth Year		
CSC 498	Computer Science Seminar I	2
CSC 499	Computer Science Seminar II	2
IMT 303	Internship in Technology	3
IMT 413	Project Management	3
XXX XXX	CSC Elective (300 level or above)	3
Select two Concentration Electives (p. 182)		6
XXX XXX	Humanities Cultural Elective	3
XXX XXX	Free Electives	5
XXX XXX	Social Science Cultural Elective	3
Credits		30
Total Credits		121

Concentration Electives

Code	Title	Credits
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 Internet of Things	3
CSC 445	Computer Network Defense	3
CET 336L	Computer Networks Technology I Laboratory	1
CET 436	Computer Networks Technology II	3
CET 436L	Computer Networks Technology II Laboratory	1

Engineering

Dr. Patricia F. Mead
Department Chair
(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 Bachelor of Science degree in Electrical and Electronics Engineering at Norfolk State University is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org> (<https://www.abet.org/>), under the General Criteria and the Electrical and Electronics Engineering Program Criteria. The Bachelor of Science degree in Optical Engineering at Norfolk State University is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org> (<https://www.abet.org/>), under the General Criteria and the Optical Engineering Program Criteria.

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 101 Spartan Seminar 101 and other Spartan Seminar classes, and in all English, mathematics, science and engineering courses; and,
- complete a senior design project.

Electrical and Electronics Engineering 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.

Engineering Programs

- Bachelor of Science Electrical and Electronics Engineering (General) (p. 187)
- Bachelor of Science in Electrical and Electronics Engineering (Track) (p. 189)
- Bachelor of Science in Optical Engineering (p. 192)
- Minor in Biomedical Engineering (p. 186)

- Minor in Electrical and Electronics Engineering (p. 191)
- Minor in Optical Engineering (p. 193)

B.S./M.S. Accelerated Program

- B.S./M.S. Accelerated Program in Electronics Engineering (<https://catalog.nsu.edu/graduate/science-engineering-technology/engineering/electronics-ms/>)

ENGINEERING FACULTY

Dr. Patricia Mead, Professor and Department Chair

Office: MCAR 527

Email: pmead@nsu.edu

Phone: 757-823-2697

Area of Research: Engineering Educational Research, Fiber Optic & Solid State Laser Systems

Dr. M. J. Bahoura, Professor

Office: RTC 410I, MCAR 507

Email: mbahoura@nsu.edu

Phone: 757-823-2672

Area of Research: Multifunctional Thin Films, High-dielectric Materials, Nano-materials

Dr. Prathap Basappa, Professor

Office: RTC 405

Email: pbasappa@nsu.edu

Phone: 757-823-2854

Area of Research: VLSI Design, Power Electronics

Dr. Makarand Deo, Associate Professor

Office: RTC 410G

Email: mdeo@nsu.edu

Phone: 757-823-8301

Area of Research: Mathematical Modeling and Computer-aided Simulations, Computational Cardiac Engineering, Biosensor Integration

Dr. Hongzhi Guo, Assistant Professor

Office: RTC 410H

Email: hguo@nsu.edu

Phone: 757-823-2309

Area of Research: RF/microwave circuits, Bioelectromagnetism, machine learning

Dr. Renny Fernandez, Assistant Professor

Office: RTC 410K

Email: refernandez@nsu.edu

Phone: 757-823-0036

Area of Research: Microfabrication, MEMS, Microfluidics, Biosensing

Dr. Adem Ibrahim, Professor

Office: RTC 410N,

Email: ahibrahim@nsu.edu

Phone: 757-823-2341

Area of Research: Computational Mechanics, Design Optimization and Sensitivity Analysis

Dr. Michael Kozhevnikov, Associate Professor

Office: MCAR 510C

Email: mkozhevnikov@nsu.edu

Phone: 757-823-0055

Area of Research: Fiber Optics, Photonics & Sensors, Virtual Reality & Visualization

Dr. Kevin Santiago, Assistant Professor

Office: RTC 410C

Email: kcsantiago@nsu.edu

Phone: 757-823-9185

Area of Research: Micro/nano fabrication, plasmonic thin films, photonics

Dr. Kyo Song, Professor

Office: RTC 410M

Email: ksong@nsu.edu

Phone: 757-823-8105

Area of Research: Electro-optical Devices & Systems, Wireless Power Transmission, Spectroscopy

Dr. Hargsoon Yoon, Professor

Office: RTC 410K

Email: hyoon@nsu.edu

Phone: 757-823-0051

Fax: 757-823-2698

Area of Research: Biomedical Nanomaterials, Neural Sensing, Nano-electronic Materials & Devices

ADMINISTRATIVE STAFF

Ms. Debra A. Brown

Engineering Graduate Program Assistant

Office: RTC Suite 410

Email: dabrown@nsu.edu

Phone: 757-823-0017

OPTICS AND ELECTRONICS LABORATORY TECHNICIAN STAFF

Mr. Christopher M . Witts

Lab Technician

Office: RTC Suite 106

Email: cmwitts@nsu.edu

Phone: 757-823-9060

Mr. Douglas Pitts

Lab Technician

Office: RTC Suite 112

Email: dwpitts@nsu.edu

Phone: 757-823-8040

CLEANROOM STAFF

Dr. Marvin Kim

Cleanroom Manager

Office: MCAR 501D

Email: kmarvin@nsu.edu

Phone: 757-823-0021

Minor in Biomedical 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.

CURRICULUM

Code	Title	Credits
Required Courses		
BIO 110	General Biology	3
CHM 321	Organic Chemistry I	3
CHM 322	Organic Chemistry II	3
XXX XXX	Engineering Elective	3
EEN 211	Materials Science & Engineering	3
EEN 481 or EEN 482	Biomedical Eng Micro-Devices/Systems Bioelectronics	3
Total Credits		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 General Biology Laboratory or consent of Chair)
- CHM 321 Organic Chemistry I (Pre-requisites required: CHM 222 General Chemistry II or CHM 224 General Chemistry II)
- CHM 322 Organic Chemistry II (Pre-requisite required: CHM 321 Organic Chemistry I)
- EEN 211 Materials Science & Engineering: (Pre-requisite required: CHM 210 General Chemistry for Engineers or CHM 221 General Chemistry I)
- EEN 481 Biomedical Eng Micro-Devices/Systems: (Pre-requisite or Co-requisite: University Physics I (PHY 160 University Physics I) and General Chemistry (CHM 210 General Chemistry for Engineers or CHM 221 General Chemistry I)
- EEN 482 Bioelectronics: (Same as EEN 481 Biomedical Eng Micro-Devices/Systems)
- One of the following courses: EEN 305 Signals and Systems, EEN 481 Biomedical Eng Micro-Devices/Systems, or EEN 482 Bioelectronics

CURRICULUM 2

Code	Title	Credits
Required Courses		
BIO 110	General Biology	3
CHM 321	Organic Chemistry I	3
CHM 322	Organic Chemistry II	3
BIO 469	Biochemistry	3
EEN 211	Materials Science & Engineering	3
EEN 350	Scientific Instrumentation	3
Total Credits		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 General Biology Laboratory or consent of Chair)

- CHM 321 Organic Chemistry I (Pre-requisites required: CHM 222 General Chemistry II or CHM 224 General Chemistry II)
- BIO 469 Biochemistry (Pre-requisite required: CHM 322 Organic Chemistry II) or CHM 431 Biochemistry I (Pre-requisites required: CHM 322 Organic Chemistry II, CHM 362 Physical Chemistry II)
- EEN 211 Materials Science & Engineering: Materials Science and Engineering (Pre-requisite required: CHM 210 General Chemistry for Engineers or CHM 221 General Chemistry I)
- EEN 350 Scientific Instrumentation (Pre-requisite required: EEN 102 Engineering Use of Computers or CSC 170 Computer Programming I; EEN 201 Electrical Network Theory I or equivalent)
- EEN 481 Biomedical Eng Micro-Devices/Systems: Biomedical Engineering Microdevices and Systems (Pre-requisite or Co-requisite: University Physics I (PHY 160 University Physics I) and General Chemistry (CHM 210 General Chemistry for Engineers or CHM 221 General Chemistry I)

Bachelor of Science Electrical and Electronics Engineering (General)

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Engineering Requirements	54
Mathematics and Science	34
Total Credit Hours	128

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		Credits
EEN 100	Intro Elec Eng'ring	3
ENG 101	College English I	3
MTH 184	Calculus I ¹	4
PHY 160	University Physics I ¹	4
PHY 160L	University Physics Laboratory I ¹	1
PED 100	Fundamentals of Fitness for Life	1
CSC 170	Computer Programming I (C++)	3
EEN 101	Engineering Problem Solving	2
ENG 102	College English II	3
MTH 251	Calculus II	4
PHY 161	University Physics II	4
PHY 161L	University Physics Laboratory II	1
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
Credits		35
Second Year		Credits
SEM 201	Spartan Seminar 201	1
XXX XXX	Social Science from the Core	3
HED 100	Personal and Community Health	2
EEE 201	Electrical Network Theory I	3
EEE 201L	Electrical Network Theory I	1
CHM 210	General Chemistry for Engineers ¹	3
MTH 252	Calculus III	4
EEN 202	Electrical Network Theory II	3
EEN 202L	Electrical Network Theory II Laboratory	1
EEN 211	Materials Science & Engineering	3
EEE 231	Digital Logic Design	3
EEE 231L	Digital Logic Design Laboratory	1
MTH 372	Differential Equations	3
ENG 285	Public Speaking	3
Credits		34
Third Year		Credits
XXX XXX	Humanities from the Core Tier 2	3
EEN 301	Engineering Electronics I	3
EEN 301L	Electronic Devices Laboratory	1

EEN 305	Signals/Systems I	3
EEN 311	Engineering Economics	3
MTH 300	Linear Algebra	3
XXX XXX	Engineering Restricted Elective	3
EEN 321	Electromagnetic Field Theory	3
EEN 431	Microcontrollers	3
EEN 371	Control Systems	3
MTH 351	Probability & Statistics I (Engineering Section) ¹	3
Credits		31

Fourth Year

XXX XXX	Humanities (Core Tier 3 Cultural Perspectives Elective)	3
EEN 401	Electronics Engineering Seminar	1
EEN 451	Communi'ns Engr I	3
EEN 498	Sr Design Proj I	3
XXX XXX	Restricted Engineering Elective	9
XXX XXX	Social Sciences (Core Tier 3 Cultural Perspectives Elective)	3
EEN 499	Sr Design Proj II	3
XXX XXX: Unrestricted Elective		3
Credits		28
Total Credits		128

¹ Substitutes for General Education Core Requirements

Engineering Restricted Electives

Take one elective from this list or take one elective from any of the 3 tracks.

Code	Title	Credits
EEN 333	Digital Integrated Circuits	3
EEN 350	Scientific Instrumentation	3
EEN 462	Semiconductor Processing Technology	3
EEN 451	Communi'ns Engr I	3
EEN 476	Renewable Bio Energy	3
OEN 340	Lasers and Photonics	3
OEN 380	Introduction to Quantum Optics	3
OEN 360	Introduction to Optical Materials	3

BIO Engineering Track

Code	Title	Credits
EEN 462	Semiconductor Processing Technology	3
EEN 481	Biomedical Engineering Micro-Devices & Systems	3
EEN 482	Bioelectronics	3
Total Credits		9

Microelectronics and Photonics Track

Code	Title	Credits
EEE 201	Electrical Network Theory I	3
EEN 462	Semiconductor Processing Technology	3
OEN 340	Lasers and Photonics	3
OEN 460	Optical Communications I	3
EEN 302	Microelectronics	3

OEN 380	Introduction to Quantum Optics	3
Total Credits		18

Gaming and Robotics Track

Code	Title	Credits
EEE 431	Microcontrollers	3
EEN 471	3D Game Programming	3
EEN 475	Design of Robotic Systems	3
EEN 350	Scientific Instrumentation	3
EEN 451	Commuc'ns Engr I	3
EEN 462	Semiconductor Processing Technology	3
Total Credits		18

Bachelor of Science in Electrical and Electronics Engineering (Track)

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Engineering Requirements	54
Mathematics and Science	34
Total Credit Hours	128

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.

Course	Title	Credits
First Year		
EEN 100	Introduction to Engineering	3
ENG 101	College English I	3
MTH 184	Calculus I ¹	4
PHY 160	University Physics I ¹	4
PHY 160L	University Physics Laboratory I ¹	1
PED 100	Fundamentals of Fitness for Life	1
CSC 170	Computer Programming I (C++)	3
EEN 101	Engineering Problem Solving	2
ENG 102	College English II	3
MTH 251	Calculus II	4
PHY 161	University Physics II	4
PHY 161L	University Physics Laboratory II	1
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
Credits		35
Second Year		
SEM 201	Spartan Seminar 201	1
XXX XXX	Social Science from the Core	3
HED 100	Personal and Community Health	2
EEE 201	Electrical Network Theory I	3
EEE 201L	Electrical Network Theory I	1
CHM 210	General Chemistry for Engineers ¹	3
MTH 252	Calculus III	4
EEN 202	Electrical Network Theory II	3
EEN 202L	Electrical Network Theory II Laboratory	1
EEN 211	Materials Science & Engineering	3
EEE 231	Digital Logic Design	3
EEE 231L	Digital Logic Design Laboratory	1
MTH 372	Differential Equations	3
ENG 285	Public Speaking	3
Credits		34
Third Year		
XXX XXX	Humanities from the Core Tier 2	3
EEN 301	Engineering Electronics I, Electronic Devices	3
EEN 301L	Electronic Devices Laboratory	1

EEN 305	Signals and Systems	3
EEN 311	Engineering Economics	3
MTH 300	Linear Algebra	3
Engineering Restricted Elective (p. 189)		3
EEN 321	Electromagnetic Field Theory	3
EEN 431	Microcontrollers	3
EEN 371	Control Systems	3
MTH 351	Probability & Statistics I (Engineering Section) ¹	3
Credits		31

Fourth Year

XXX XXX	Humanities (Core Tier 3 Cultural Perspectives Elective)	3
EEN 401	Electronics Engineering Seminar	1
EEN 451	Communications Engineering	3
EEN 498	Sr Project I	3
Engineering Restricted Elective (p. 189)		3
XXX XXX	Social Sciences (Core Tier 3 Cultural Perspectives Elective)	3
Engineering Restricted Elective (p. 189)		3
EEN 499	Sr Project II	3
Engineering Restricted Elective (p. 189)		3
XXX XXX	Unrestricted Elective	3
Credits		28
Total Credits		128

¹ Substitutes for General Education Core Requirements

EEE Engineering Restricted Elective

Track Courses

Select at least 3 courses from selected track (may take up to one course from another track)

BIO Engineering Track

Code	Title	Credits
EEN 462	Semiconductor Processing Technology	3
EEN 481	Biomedical Eng Micro-Devices/Systems	3
EEN 482	Bioelectronics	3
Total Credits		9

Microelectronics and Photonics Track

Code	Title	Credits
EEN 302	Microelectronics	3
EEN 462	Semiconductor Processing Technology	3
OEN 340	Lasers and Photonics	3
OEN 360	Introduction to Optical Materials	3
OEN 380	Introduction to Quantum Optics	3
OEN 460	Optical Communications I	3
Total Credits		18

Gaming and Robotics Track

Code	Title	Credits
EEN 333	Digital Integrated Circuits	3
EEN 350	Scientific Instrumentation	3
EEN 451	Communications Engineering	3

EEN 462	Semiconductor Processing Technology	3
Total Credits		12

Minor in Electrical and Electronics Engineering

Curriculum

This minor is for non-engineering major students.

Code	Title	Credits
EEE 201	Electrical Network Theory I	3
EEE 203	Electronic Principles	3
Engineering Elective	EEE 3XXX (Excluding EEE 311 or 4XX)	3
Engineering Elective	EEE 3XXX (Excluding EEE 311 or 4XX)	3
Engineering Elective	EEE 3XXX (Excluding EEE 311 or 4XX)	3
Total Credits		15

Bachelor of Science in Optical Engineering

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.

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Engineering Requirements	54
Mathematics and Science	34
Total Credit Hours	128

Curriculum

First Year		Credits
EEN 100	Intro Elec Eng'rng	3
EEN 102	Eng Use Computers	3
ENG 101	College English I	3
ENG 102	College English II	3
MTH 184	Calculus I ¹	4
XXX XXX	Social Science (Tier)	3
PED 100	Fundamentals of Fitness for Life	1
CHM 210	General Chemistry for Engineers ¹	3
EEN 211	Material Science & Engineering	3
EEN 101	Engineering Problem Solving	2
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
Credits		30

Second Year		Credits
PHY 160	University Physics I ¹	4
PHY 160L	University Physics Laboratory I ¹	1
PHY 161	University Physics II	4
PHY 161L	University Physics Laboratory II	1
MTH 251	Calculus II	4
MTH 252	Calculus III	4
OEN 200	Geometric & Instr Optics	3
OEN 200L	Geometric & Instr Optics Lab	1
OEN 290	Optical Engineering Seminar I	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
Credits		35

Third Year		Credits
OEN 201	Geo & Inst Optics II	3
OEN 201L	Physical and Instrumental 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	Laser and Photonics Lab	1
OEN 360	Introduction to Optical Materials	3
EEE 201	Electrical Network Theory I	3
EEE 201L	Electrical Network Theory I	1
EEN 311	Engnrng Elect Lab I	3
OEN 390	Optical Engineering Seminar II	1
EEE 203	Electronic Principles	3
XXX XXX	Cultural Humanities	3
Credits		34

Fourth Year		Credits
MTH 351	Probability & Statistics I	3
OEN 380	Introduction to Quantum Optics	3
OEN 460	Optical Communications I	3
OEN 460L	Optical Communication I Laboratory	1
EEN 321	Electromagnetic Field Theory	3
OEN 490	Sr Seminar	1
OEN 498	Sr Project I	3
OEN 499	Sr Project II	3
XXX XXX	Engineering Restrictive Elective	3
XXX XXX	Technical Elective	3
XXX XXX	Engineering Restrictive Elective	3
Credits		29
Total Credits		128

¹ 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.

Minor in Optical Engineering

Curriculum

Code	Title	Credits
Select 15 credits of the following:		15
OEN 2XX		
OEN 3XX		
OEN 4XX		
EEN 211	Materials Science & Engineering	
EEN 321	Electromagnetic Field Theory	
EEN 462	Semiconductor Processing Technology	
Total Credits		15

Mathematics

Dr. Anne Fernando
Department Chair
(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 Spartan Seminar 101, SEM 102 Spartan Seminar 102, and SEM 201 Spartan Seminar 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.

Mathematics Programs

- Bachelor of Science in Mathematics - Applied Mathematics Track (p. 196)
- Dual Degree in Mathematics (p. 197)
- Minor in Mathematics (p. 198)
- Mathematics with Teacher Certification Track (p. 198)

Bachelor of Science in Mathematics - Applied Mathematics Track

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	42
Major Requirements	59
Restricted Electives	15
General Electives	4
Total Credit Hours	120

Curriculum

First Year		Credits
BIO 100	Biological Science	3
BIO 100L	Biological Science Lab	1
CSC 169	Introduction to Computer Science	3
CSC 170	Computer Programming I	3
CSC 170L	Computer Programming Laboratory I	1
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
MTH 184	Calculus I	4
MTH 251	Calculus II	4
PED 100	Fundamentals of Fitness for Life	1
Credits		30
Second Year		
SEM 201	Spartan Seminar 201	1
CSC 2XX	Computer Programming Electives (200 Level)	6
PHY 152	General Physics	3
PHY 152L	General Physics Laboratory I	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	3
PHY 153L	General Physics Laboratory II	1
XXX XXX	Cultural Perspectives (Humanities) ¹	3
Credits		31
Third Year		
XXX XXX	Applied Electives ²	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 & Statistics I	3
MTH 352	Probability & Statistics II	3
XXX XXX	Cultural Perspectives (Social Science) ³	3
ENG 285	Public Speaking	3
XXX XXX	Social Sciences Elective ⁴	3

XXX XXX	Humanities ⁵	3
Credits		32
Fourth Year		
XXX XXX	Applied Electives ²	12
XXX XXX	General Electives	2
MTH 401	Numeric Analysis I	3
MTH 473	Real Analysis	3
MTH 496	Mathematics Seminar I	2
MTH 497	Mathematics Seminar II	2
ENG 203 or ENG 303	Advanced Communication Skills or Professional & Technical Writing	3
Credits		27
Total Credits		120

¹ Cultural Perspectives (Humanities)

Note: Students will take 3 hours of Cultural Perspectives (Humanities) as indicated: ENG 383 African-American Literature, 1940-PRESENT, MUS 234 African-American Music.

² Applied Electives

Note: students will take 15 hours of applied electives as indicated:

Third year: MTH 382 Introduction to Applied Mathematics and PHY 3xx (6 hours)

Fourth year: MTH 402 Numeric Analysis II, MTH 474 Complex Variables, MTH 484 Topics in Applied Mathematics, PHY 3xx, PHY 4xx, EEN 3xx (9 hours)

³ Cultural Perspectives (Social Science)

Note: Students will take 3 hours of Cultural Perspectives (Humanities) as indicated: HIS 335 African-American History, HIS 336 African-American History Since 1865, HIS 371 Modern African History & Cultures 1600-PRESENT, HRP 320 African American Health.

⁴ Social Sciences

Note: Students will take 3 hours of Social Sciences as indicated: SOC 101 Introduction to the Social Sciences, HIS 101 Hist of Civilizat, HIS 103 United States History Since 1865, BUS 175 Introduction to Business & Entrepreneurship, ECN 200 Basic Principles of Economics.

⁵ Humanities

Note: Students will take 3 hours of humanities as indicated: ENG 207 Introduction to World Literature, FIA 201 Basic Art Appreciation, MUS 301 Music Appreciation.

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.

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	54
Electives	5
Other Requirements	21
Dual Mathematics Requirements	30
Total Credit Hours	150

Curriculum

- Complete Primary Degree Requirements**
(Minimum of 120 Semester Hours)
- Complete Dual Mathematics Requirements**
(30 Semester Hours)

Code	Title	Credits
Requirements		
MTH 251	Calculus II	4
MTH 252	Calculus III	4
MTH 300	Linear Algebra	3
MTH 351	Probability & 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 Structures	
MTH 352	Probability & Statistics II	
MTH 382	Introduction to Applied Mathematics	
Select one of the following:		3
MTH 401	Numeric Analysis I	
MTH 431	Abstract Algebra	
MTH 473	Real Analysis	
MTH 484	Topics in Applied Mathematics	
Total Credits		26

- 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.

1.

Minor in Mathematics

Curriculum

Code	Title	Credits
Core		
MTH 252	Calculus III	4
MTH 351	Probability & Statistics I	3
MTH 372	Differential Equations	3
Electives		
Select two of the following:		6
MTH 300	Linear Algebra	
MTH 331	Algebraic Structures	
MTH 352	Probability & Statistics II	
MTH 373	Advanced Vector Calculus	
MTH 382	Introduction to Applied Mathematics	
MTH 401	Numerical Analysis I	
Total Credits		16

Mathematics with Teacher Certification Track

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	42
Major Requirements	43
Professional Educational Requirements	18
Student Teaching/Field Experiences	12
Restricted & General Electives	5
Total Credit Hours	120

Curriculum

First Year		Credits
BIO 100 & 100L	Biological Science and Biological Science Lab	4
CSC 170	Computer Programming I	3
CSC 170L	Computer Programming Laboratory I	1
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 152 & 152L	General Physics and General Physics Laboratory I	4
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
	Credits	31
Second Year		
SEM 201	Spartan Seminar 201	1
ENG 203 or ENG 303	Advanced Communication Skills or Professional & Technical Writing	3
ENG 285	Public Speaking	3
XXX XXX	Cultural Perspectives (Social Science) ¹	3

XXX XXX	Humanities ²	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
XXX XXX	Social Science ³	3
Credits		32

Third Year

XXX XXX	Cultural Perspectives (Humanities) ⁴	3
MTH 250	Elementary Statistics Concepts	3
MTH 310	Discrete Mathematics	3
MTH 311	Modern Geometry I	3
MTH 351	Probability & Statistics I	3
MTH 352	Probability & Statistics II	3
MTH 331	Algebraic Structures	3
EDU 381	Classroom and Behavior Management	3
SED 384	Curriculum & Instructional Procedures in Mathematics	3
SED 405	Reading in the Content Area	3
Credits		30

Fourth Year

XXX XXX	Mathematics Elective ⁵	3
MTH 496 & MTH 497	Mathematics Seminar I and Mathematics Seminar II	4
SED 420	Educational Technology	3
PSY 228 or EDU 486	Developmental Psychology or Human Growth and Development	3
SED 499	Directed Teaching (internship)	12
XXX XXX	General Elective	2
Credits		27
Total Credits		120

¹ Cultural Perspectives (Social Science)

Note: Students will take 3 hours of Cultural Perspectives (Social Science) as indicated: HIS 335 African-American History, HIS 336 African-American History Since 1865, HIS 371 Modern African History & Cultures 1600-PRESENT, HRP 320 African American Health

² Humanities

Note: Students will take 3 hours of humanities as indicated: ENG 207 Introduction to World Literature, FIA 201 Basic Art Appreciation, MUS 301 Music Appreciation

³ Social Sciences

Note: Students will take 3 hours of Social sciences as indicated: SOC 101 Introduction to the Social Sciences, HIS 101 Hist of Civilizat, HIS 103 United States History Since 1865, BUS 175 Introduction to Business & Entrepreneurship, ECN 200 Basic Principles of Economics

⁴ Cultural Perspectives (Humanities)

Note: Students will take 3 hours of Cultural Perspectives (Humanities) as indicated: ENG 383 African-American Literature, 1940-PRESENT, MUS 234 African-American Music

⁵ Mathematics Electives

MTH 401 Numeric Analysis I, MTH 431 Abstract Algebra, MTH 473 Real Analysis

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).

Code	Title	Credits
EDU 201	Foundations of Education	3
EDU 381	Classroom and Behavior Management	3
PSY 228/ EDU 486	Developmental Psychology	3
SED 384	Curriculum & Instructional Procedures in Mathematics	3
SED 405	Reading in the Content Area	3
SED 420	Educational Technology	3

Naval Science

LT Stephen McKenzie
Naval Reserve Officer Training Corps
(757) 823-8895

Recruiter email: hrnrotc-recruiter@odu.edu or sdmckenzie@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 Naval Orientation, NSC 102 Sea Power & Maritime Affairs, NSC 201 Naval Ship Systems I, NSC 202 Naval Ship Systems II 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 Navigation & Naval Operations I, NSC 302 Navigation & Naval Operations II, NSC 401 Leadership & Management, NSC 402 Leadership & Ethics 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 The Evolution of Warfare, NSC 410 Amphibious Warfare, and two approved elective courses for NSC 301 Navigation & Naval Operations I, NSC 302 Navigation & Naval Operations II, NSC 401 Leadership & Management, and NSC 402 Leadership & Ethics.

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 (sdmckenzie@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.

Naval Science Programs

- Naval Reserve Officers Training Corp (NROTC) (p. 200)

Naval Reserve Officers Training Corp (NROTC)

This Department does not offer a major course program.

CURRICULUM

Course	Title	Credits
First Year		
NSC 101	Naval Orientation ¹	2
NSC 102/HIS 380	Sea Power & Maritime Affairs ¹	3
NSC 111	Naval Laboratory I	1
Credits		6
Second Year		
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
Credits		8
Third Year		
NSC 301	Navigation & Naval Operations I	3
NSC 302	Navigation & Naval Operations II	3
NSC 310	The Evolution of Warfare (Marine Option Only)	3
NSC 311	Naval Laboratory V	1
NSC 312	Naval Laboratory VI	1
Credits		11

Fourth Year

NSC 401	Leadership & Management ¹	3
NSC 402	Leadership & Ethics ¹	3
NSC 410	Amphibious Warfare (Marine Option Only)	3
NSC 411	Naval Laboratory VII	1
Credits		10
Total Credits		35

Nursing and Allied Health

Jamela M. Martin, PhD, RN
Associate Professor and Chair
Department of Nursing and Allied Health
(757) 823-9013

Nursing

Jamela M. Martin, PhD, RN
Director
(757) 823-9013

Nursing offers the Bachelor of Science Degree. The Bachelor of Science in Nursing (BSN) Program is accredited by the Accreditation Commission for Education in Nursing (ACEN), 3343 Peachtree Road, NE, Suite 850 Atlanta, GA 30326; Tel. (404) 975-5000; Fax: (404) 975-5020 and approved by the Virginia Board of Nursing (VBON), Perimeter Center, 9960 Maryland Drive, Suite 300, Henrico, VA 23233-1463; Tel. (804) 367-4515.

There are two BSN Nursing tracks offered:

- 1) The Traditional (pre-licensure) track is a full-time track that can be completed in five (5) semesters.
- 2) The Online (RN to BSN) track (designed for individuals who have associate degrees or diplomas in nursing) can be completed in (4) five-week terms fulltime or (5) five-week terms part-time.

Graduates are prepared as generalists in the practice of professional nursing. Upon graduation from the Traditional (pre-licensure) nursing track, individuals are eligible to take the National Council Licensing Examination (NCLEX-RN) for Registered Nurses.

The Virginia Board of Nursing (VBON) 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 VBON for further information.

Policies

Specific policies related to grading, promotion, and retention in the program are delineated in the Student Handbook.

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. Completion of one algebra course, one general mathematics course, one biology course with a lab (will accept high school).
4. A cumulative NSU grade point average of 3.0, 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.**
5. For admission to the Traditional Program, students must have a cumulative grade point average of 3.0 and a minimum grade of "C" in all prerequisite courses. Students must complete the HESI A2 Entrance Exam.
6. For admission to the RN to BSN Program, student must be licensed as a Registered Nurse.

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 and Readmissions Committee makes recommendations for readmission. The final decision to grant readmission to the nursing program, however, rests with the Department Chairperson.

Allied Health

Dr. Marie St. Rose
Director
(757) 823-2480

Allied Health offers a Bachelor of Science in Health Services Management, a Bachelor of Science in Health Services Management with Food Science Nutrition Concentration, and a Certificate of Completion in Health Services Management.

Policies

Admission to the Allied Health programs is contingent upon acceptance into Norfolk State University.

Specific policies related to Allied Health programs are delineated in the student handbook.

Objectives

1. Apply the steps used in the managerial decision making process to solve a problem.
2. Demonstrate knowledge of the Internal and external environment of health care organizations.
3. Develop competency skills in the functional areas of planning, organizing, staffing, leading and controlling.
4. Demonstrate professionalism and ethical behavior.
5. Construct and present effective oral and written communication.
6. Interpret and synthesize data in the delivery of health care services.
7. Apply technological tools in the delivery of health care services.

Nursing and Allied Health Programs

- Bachelor of Science in Health Services Management - Food Science & Nutrition Concentration (p. 204)
- Bachelor of Science in Health Services Management - Online (p. 205)
- Bachelor of Science in Nursing - Online (RN to BSN) Completion Track (p. 210)
- Bachelor of Science in Nursing - Traditional (Pre-licensure) Baccalaureate Completion Track (p. 208)
- Certificate in Health Services Management (p. 207)

Bachelor of Science in Health Services Management - Food Science & Nutrition Concentration

Program Description

The Food Science and Nutrition Concentration is designed for students who are pursuing a Bachelor of Science Degree in Health Services Management who are seeking to enter supervised practice to become a registered dietitian nutritionist; and for students who already have an undergraduate degree and want to complete the Accreditation Council for Education in Nutrition and Dietetics (ACEND) Didactic requirements. The core knowledge provides graduates with the necessary background for employment in diverse communities and a variety of food science and nutrition settings. The Program Director issues a verification statement to each student who completes the program requirements. The Food Science and Nutrition Concentration is accredited by ACEND. (<https://www.eatrightpro.org/acend/>)

Program Mission

The mission of the Food Science and Nutrition (FSN) Concentration is aligned with the mission of the University. Offering a supportive academic and culturally diverse environment, the Food Science and Nutrition Concentration prepares students for supervised practice leading to eligibility for a verification statement and for the Commission for Dietetics Registration (CDR) credentialing examination. The FSN Concentration also prepares students to meet the Didactic requirements as defined by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) in order to be successful food science and nutrition professionals in diverse communities and a variety of workplace settings for the 21st century.

Program Goals

1. The program will prepare students for ACEND supervised practice to become a registered dietitian nutritionist.
2. The program will produce competent graduates to work in food science and nutrition related fields.

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	83
Electives	0
Total Credit Hours	123

Curriculum

First Year		Credits
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
ENG 101	College English I	3
MTH 153	College Algebra & Trigonometry	3
CHM 221 & 221L	General Chemistry I and General Chemistry I Laboratory	4
BIO 165 & 165L	Human Anatomy and Physiology and Human Anatomy and Physiology Laboratory	4
HED 100	Personal and Community Health	2
PED 100	Fundamentals of Fitness for Life	1

ENG 102	College English II	3
CSC 150	Computer Literacy	3
BIO 166 & 166L	Human Anatomy and Physiology and Human Anatomy and Physiology Laboratory	4
CHM 222 & 222L	General Chemistry II and General Chemistry II Laboratory	4

Credits 33

Second Year

SEM 201	Spartan Seminar 201	1
SOC 101	Introduction to the Social Sciences	3
ENG 285	Public Speaking	3
BIO 310 & 310L	General Microbiology and General Microbiology Laboratory	4
MTH 250	Elementary Statistics Concepts	3
FSN 101	Introduction to Dietetics & Food Science	2
FSN 110	The Science of Human Nutrition	3
ENG 207	Introduction to World Literature	3
HSM 300	Health Services Management	3
HRP 320	African American Health	3
CHM 312	Organic Chemistry I	3-0
CHM 312L	Organic Chemistry I Laboratory	1

Credits 32-29

Third Year

BIO 469 & 469L	Biochemistry and Biochemistry Laboratory	4
HSM 310	Health Personnel Management	3
HSM 311	Legal Aspects & Ethics of Health-Care Delivery	3
HSM 331	Health Financial Management	4
HSM 368	Healthcare Marketing	3
HSM 387	Population Health	3
HSM 397	Healthcare Information Systems	3
ENG 383	African-American Literature, 1940-PRESENT	3
HSM 454	Long-Term Care Administration	3

Credits 29

Fourth Year

FSN 312	Physiological & Chemical Foundations of Nutrition	3
FSN 320	Food Service Management	3
FSN 330 & 330L	Scientific Food Development and Scientific Food Development Laboratory	4
FSN 340	Nutrition Education	3
FSN 356	Advanced Nutrition & Human Metabolism	3
FSN 426 & 426L	Nutrition in Disease and Nutrition in Disease Laboratory	4
FSN 460	Quantity Food Production	3
FSN 484	Rural/Urban Nutrition	3

HSM 497	Health Services Management Problems and Research	3
Credits		29
Total Credits		123-120

Bachelor of Science in Health Services Management - Online

Dr. Hedieh Sirjani
Program Coordinator
E: hhsirjani@nsu.edu
(T: 757) 278-4377

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 the health services industry in the form of an internship and on-the-job experiential learning in the last year.

PROGRAM MISSION

The mission of the Bachelor of Science in Health Services Management aligns with the mission of Norfolk State University such that through teaching, scholarly activity, and service, the program prepares undergraduate students for entry-level positions in a variety of health services organizations. The program strives to empower students to "achieve their full potential as well-rounded, resourceful citizens and leaders for the 21st century."

SUMMARY OF GRADUATION REQUIREMENTS

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	74
Electives	6
Total Credit Hours	120

CURRICULUM

First Year		Credits
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
ACC 201	Elementary Accounting I	3
ACC 202	Elem Accounting II	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 Literacy	3
Select one of the following:		3
MTH 151	College Algebra	
MTH 131	Pre-Calculus for Business Majors	
MTH 153	College Algebra & Trigonometry	

BIO 100 & 100L	Biological Science and Biological Science Lab	4
SCI 101	Physical Science for Non-Science Majors	3
Credits		33

Second Year

ECN 211	Principles of Econ	3
ECN 212	Principles of Econ	3
ENG 203	Advanced Communication Skills	3
ENG 285	Public Speaking	3
HSM 300 & 300L	Health Services Management and Health Services Management Laboratory	4
HSM 310	Health Personnel Management	3
PSY 210	Introduction to Psychology	3
Select one of the following:		3

MTH 250	Elementary Statistics Concepts	
PSY 270	Psychological Statistics	
SOC 355	Elementary Social Statistics	
POS 345	Statistics and Data Processing	
DSC 270	Business Statistics	

Select one of the following Social Science:

BUS 175	Introduction to Business & Entrepreneurship	3
ECN 200	Basic Principles of Economics	
HIS 101	Hist of Civilizat	
HIS 103	United States History Since 1865	
SOC 101	Introduction to the Social Sciences	
ENG 383 or MUS 234	African-American Literature, 1940-PRESENT or African-American Music	3
SEM 201	Spartan Seminar 201	1

Credits

Credits		32
Third Year		
HRP 310	Current Trends in Health Care Delivery	3
HSM 311	Legal Aspects & Ethics of Health-Care Delivery	3
HSM 331	Health Financial Management	4
BUS 365	Organizational Behavior & Theory	3
HSM 368	Healthcare Marketing	3
HSM 387	Population Health	3
HSM 397	Healthcare Information Systems	3

Select one of the following Humanities:

ENG 207	Introduction to World Literature	
MUS 301	Music Appreciation	
FIA 201	Basic Art Appreciation	
XXX XXX	Cultural Sciences	3

Credits

Credits		28
Fourth Year		
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
Credits		27
Total Credits		120

Certificate in Health Services Management

Dr. Marie St. Rose, Program Coordinator

(757)823-8389

mstrose@nsu.edu | <http://www.nsu.edu/allied-health> (<https://www.nsu.edu/allied-health/>)

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.

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).

CURRICULUM

Courses are taught on-line.

Code	Title	Credits
HSM 300	Health Services Management	3
HSM 310	Health Personnel Management	3
HSM 311	Legal Aspects/Ethics Health Care	3
HSM 331	Health Financial Management	4
Total Credits		13

Bachelor of Science in Nursing - Traditional (Pre-licensure) Baccalaureate Completion Track

Dr. Jamela M. Martin
Director of Nursing
(757) 823-9013

Admission Criteria

Applications for the Traditional (Pre-licensure) Completion Program are open to all qualified students. This program 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. Applications are available in the Department of Nursing and Allied Health, 4th floor, Nursing and General Education Building.
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 course).
5. A cumulative NSU grade point average of 3.0, and a "C" or above in the listed 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 Traditional (pre-licensure) BSN Track are required to complete and pass the HESI A2 Entrance Exam before submitting a nursing school application. Students will be allowed to take the HESI A2 twice during an academic year at NSU. Potential applicants must receive a 75% or greater in all categories on the HESI exam to be eligible for admission. Additional information may be received from the University Testing Center at testingcenter@nsu.edu.

Summary of Graduation Requirements

Subject Area	Credits
Total Nursing Program Credits	69
Total Prerequisite Credits	52
Total Credit Hours	121

Prerequisite Courses

First Year

Fall		Credits
SEM 101	Spartan Seminar 101	1
ENG 101	College English I	3
BIO 163 & 163L	Microbiology for the Health Sciences and Microbiology for the Health Sciences Laboratory	4
BIO 165 & 165L	Human Anatomy and Physiology and Human Anatomy and Physiology Laboratory	4

MTH 101 or MTH 105 (Will accept High School)

	Credits	12
Spring		
SEM 102	Spartan Seminar 102	1
ENG 102	College English II	3
BIO 100 & 100L	Biological Science and Biological Science Lab (Will accept High School)	
MTH 250	Elementary Statistics Concepts	3
FSN 110	The Science of Human Nutrition	3
BIO 166 & 166L	Human Anatomy and Physiology and Human Anatomy and Physiology Laboratory	4

Credits 14

Second Year

Fall

SEM 201	Spartan Seminar 201	1
ENG 285	Public Speaking	3
CHM 215 & 215L	Chemistry I and Chemistry I Laboratory	4
Select one of the following Cultural Perspective - Humanities:		3
ENG 383	African-American Literature, 1940-PRESENT	
FIA 370	African/Afro-American Art	
MUS 234	African-American Music	
Select one of the following Social Science Electives:		3
SOC 101	Introduction to the Social Sciences	
HIS 101	Hist of Civilizat	
HIS 103	United States History Since 1865	
BUS 175	Introduction to Business & Entrepreneurship	
ECN 200	Basic Principles of Economics	

Apply for Nursing Program

	Credits	14
Spring		
PSY 228	Developmental Psychology	3
CSC 150	Computer Literacy	3
Select one of the following Cultural Perspective - Social Science:		3
HRP 320	African American Health	
HIS 335/336	African-American History	
HIS 371	Modern African History & Cultures 1600-PRESENT	
Select one of the following Humanities Elective:		3
ENG 207	Introduction to World Literature	
FIA 201	Basic Art Appreciation	
MUS 301	Music Appreciation	
Credits		12
Total Credits		52

Nursing Curriculum

Code	Title	Credits
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 Laboratory	2
Second Semester		
NUR 360	Nursing Care of Adults I	6
NUR 360L	Nursing Care of Adults I Laboratory	3
NUR 400	Nursing Pathophysiology	3
NUR 461	Nursing Research Dimensions	3
Third Semester		
NUR 332	Genetics & Genomics in Nursing Practice	2
NUR 446	Nursing of Women & the Childbearing Family	2
NUR 446L	Nursing of Women & the Childbearing Family Laboratory	2
NUR 450	Nursing of Children, Adolescents, & Families	2
NUR 450L	Nursing of Children, Adolescents, & Families Lab	2
Fourth Semester		
NUR 440	Nursing Care of Adults II	6
NUR 440L	Nursing Care of Adults II Laboratory	3
NUR 442	Psychiatric/Mental Health Nursing	2
NUR 442L	Psychiatric/Mental Health Nursing Laboratory	2
NUR 485 or NUR 485H	Contemporary Topics in Nursing and Health Care Honors: Contemporary Topics in Nursing and Health Care	3
Fifth Semester		
NUR 463	Capstone Theory	2
NUR 463L	Capstone Theory and Preceptorship	3
NUR 462 or NUR 462H	Nursing Leadership and Management Honors: Nursing Leadership and Management	3
NUR 490	Community Health Nursing	2
NUR 490L	Community Health Nursing Laboratory	2
Total Credits		69

Notes on Traditional (Pre-licensure) Baccalaureate Nursing Completion Track

- 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 to earn a BSN in Nursing (not to exceed 100 simulation hours).

Bachelor of Science in Nursing - Online (RN to BSN) Completion Track

Dr. Felisa Smith
Interim Coordinator, RN-BSN Program
(757) 823-9013

Admission Criteria

Admission to the Online (RN to BSN) Track Completion 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 all prerequisite courses.
8. All prerequisite courses must be completed before the start of the Online (RN-BSN) Track Completion Program.

Summary of Graduation Requirements

Subject Area	Credits
Total Major Credits	30
Total Prerequisite Credits Credits	55
Awarded for Lower Level Nursing Degree	36
Total Credit Hours	121

Prerequisite Courses

Code	Title	Credits
Tier 1 General Education Requirements		
SEM 101	Spartan Seminar 101	1
ENG 101/101H	College English I	3
ENG 102/102H	College English II	3
ENG 285/285H	Public Speaking	3
Tier 2 General Education Requirements		
Select one of the following Humanities:		3
ENG 207	Introduction to World Literature	
FIA 201	Basic Art Appreciation	

MUS 301	Music Appreciation	
CHM 215 & 215L	Chemistry I and Chemistry I Laboratory	4
SEM 102	Spartan Seminar 102	1
Select one of the following Social Sciences:		3
BUS 175	Introduction to Business & Entrepreneurship	
ECN 200	Basic Principles of Economics	
HIS 101	Hist of Civilizat	
HIS 103	United States History Since 1865	
SOC 101	Introduction to the Social Sciences	
CSC 150	Computer Literacy	3
Tier 3 General Education Requirements		
HUM XXX	Elective (Humanities Transfer Credits)	3
SEM 201	Spartan Seminar 201	1
Social Science Elective	Social Science Transfer Credits	3
Nursing Program Requirements		
BIO 165 & 165L	Human Anatomy and Physiology and Human Anatomy and Physiology Laboratory	4
BIO 166 & 166L	Human Anatomy and Physiology and Human Anatomy and Physiology Laboratory	4
BIO 163 & 163L	Microbiology for the Health Sciences and Microbiology for the Health Sciences Laboratory	4
BIO 320	Pathophysiology	3
PSY 228	Developmental Psychology	3
MTH 250	Elementary Statistics Concepts	3
HRP 320	African American Health (University cultural perspective required)	3
Total Credits		55

Subject Area	Credits
Total Prerequisite Credits Required	55
Credits Awarded for Lower Level Nursing Degree	36
Total Credit Hours	91

Curriculum

First Semester

Code	Title	Credits
Term 1		
NUR 301	Foundations of Online Success: Bsn Orientation	3
NUR 418/418H	Conceptual Models for Nursing	3
NUR 461/461H	Nursing Research Dimensions	3
Term 2		
NUR 321/321H	Multicultural/Bioethics	3
NUR 415	Health Assessment	4
Total Credits		16

Second Semester

Code	Title	Credits
Term 3		
NUR 435	Providing Nursing Systems for Families, Groups, and Communities	3

NUR 435L	Providing Nursing Systems for Families, Groups, and Communities Laboratory	2
----------	--	---

Term 4

NUR 462/462H	Nursing Leadership and Management	3
NUR 470	Seminar on Professional Development	3
NUR 485/485H	Contemporary Topics in Nursing and Health Care	3

Total Credits		14
----------------------	--	-----------

Note on Online (RN to BSN) Completion Track: The department also offers a part-time 5-term Online RN to BSN track.

Physics

Dr. Doyle E. Temple
Department Chair
(757) 823-2992

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.

Physics Programs

- Bachelor of Science in Physics (p. 213)
- Bachelor of Science in Physics and Master of Science in Materials Science (Five-Year Dual Degree) (p. 214)
- Minor in Astronomy (p. 213)
- Minor in Physics (p. 215)
- Teacher Certification in Physics (p. 215)

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

Code	Title	Credits
Core Requirements		
PHY 152	General Physics	3
PHY 153	General Physics	3
AST 201	General Astronomy	3
Select three of the following:		9
AST 301	Methods in Observational Astronomy	
AST 303	Introduction to Astrophysics	
AST 401	Stellar Astrophysics	
Total Credits		18

Bachelor of Science in Physics

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	68
Electives	0
Other Requirements	12
Total Credit Hours	120

Curriculum

First Year		Credits
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 Laboratory I	1
PHY 161	University Physics II	4
PHY 161L	University Physics Laboratory II	1
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
Credits		29
Second Year		
SEM 201	Spartan Seminar 201	1
Select one of the following Cultural Perspectives (Humanities):		3

ENG 383	African-American Literature, 1940-PRESENT	
MUS 234	African-American Music	
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 Physical Sciences I	3
PHY 350	Modern Physics	3
PHY 351	Modern Physics	2
Credits		33

Third Year

CHM 221	General Chemistry I	3
CHM 221L	General Chemistry I Laboratory	1
CHM 222	General Chemistry II	3
CHM 222L	General Chemistry II Laboratory	1
PHY 365	Physical Mechanics	3
PHY 366	Physical Mechanics	3
PHY 375	Electricity and Magnetism I	3
PHY 380	Quantum Mechanics I	3
PHY 399	Advanced Laboratory	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
Credits		31

Fourth Year

XXX XXX	Elective (unrestricted)	9
Select one of the following Cultural Perspectives - Social Sciences:		3
HIS 335	African-American History	
HIS 336	African-American History Since 1865	
HIS 371	Modern African History & Cultures 1600-PRESENT	
HRP 320	African American Health	
PHY 356	Heat and Thermodynamics	3
PHY 468	Optics	3
PHY 475	Electricity and Magnetism II	3
PHY 480	Quantum Mechanics II	3
PHY 498	Sr Project I	2
PHY 499	Sr Project II	2
Credits		28
Total Credits		121

Bachelor of Science in Physics and Master of Science in Materials Science (Five-Year Dual Degree)

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	70
Electives	10
Other Requirements	41
Total Credit Hours	161

Curriculum

Course	Title	Credits
First Year		
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 Laboratory I	1
PHY 161	University Physics II	4
PHY 161L	University Physics Laboratory II	1
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
Credits		32
Second Year		
SEM 201	Spartan Seminar 201	1
CHM 221	General Chemistry I	3
CHM 221L	General Chemistry I Laboratory	1
CHM 222	General Chemistry II	3
CHM 222L	General Chemistry II Laboratory	1
EEN 301	Engineering Electronics I, Electronic Devices	3
ENG 203	Advanced Communication Skills	3
XXX XXX	Cultural Perspectives (Humanities)	3
ENG 383 or MUS 234	African American Literature or African American Music	
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	Modern Physics Laboratory	2
Credits		35
Summer		
PHY 397	Introduction to Research (to fulfill Elective Requirement)	3
Credits		3

Third Year

PHY 356	Heat and Thermodynamics	3
PHY 365	Physical Mechanics I	3
PHY 366	Physical 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
Select one Cultural Perspectives (Social Sciences) of the following:		3
HIS 335	African American History	
HIS 336	African American History Since 1865	
HIS 371	African History/Cultures 1600-PRESENT	
HIS 320	Independent Latin America	
XXX XXX	Elective (unrestricted)	1
Select two of the following Restricted Math Electives:		6
MTH 300	Linear Algebra	
MTH 373	Advanced Vector Calculus	
MTH 474	Complex Variables	
PHY 345	Math Methods in Physical Sciences I	
PHY 445	Math Methods in Physical Sciences II	
Credits		33

Fourth Year

CHM 545	Mathematical Method	3
XXX XXX	Humanities Elective from the Core	3
MSE 530	Materials Science	3
MSE 533	Polymers/Composites	3
PHY 468	Optics	3
PHY 475	Electricity and Magnetism II	3
PHY 480	Quantum Mechanics II	3
PHY 498	Sr Project I	2
PHY 499	Sr Project II	2
PHY 565	Physical Mechanics	3
PHY 580	Quantum Mechanics for Material Science	3
Credits		31

Summer

MSE 697	Research I	1-9
Credits		1-9

Fifth Year

CHM 573	Advanced Inorganic Chemistry	3
CHM 663	Atomic/ Molecular Spectroscopy	3
MSE 575	Basic Instrumentation for Material Sci	3
CHM 633	Molecular Dynamics	3
MATS 710	Special Topics II	3
MATS 797	Research III	3
MATS 799	Thesis	3
PHY 653	Solid State Physics	3
PHY 675	Electricity and Magnetism	3
Credits		27
Total Credits		162-170

Minor in Physics

Curriculum

Code	Title	Credits
Core Requirements		
PHY 160	University Physics I	4
PHY 160L	University Physics Laboratory I	1
PHY 161	University Physics II	4
Upper Division Courses		
PHY 350	Modern Physics	3
Select two of the following:		6
PHY 365	Physical Mechanics I	
PHY 366	Physical Mechanics II	
PHY 375	Electricity and Magnetism I	
PHY 475	Electricity and Magnetism II	
PHY 380	Quantum Mechanics I	
PHY 480	Quantum Mechanics II	
Total Credits		18

Teacher Certification in Physics

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	54
Electives	12
Other Requirements	15
Total Credit Hours	121

Curriculum

First Year		Credits
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 Laboratory I	1
PHY 161	University Physics II	4
PHY 161L	University Physics Laboratory II	1
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
Credits		29
Second Year		
SEM 201	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 Physical Sciences I	3

PHY 350	Modern Physics	3
PHY 351	Modern Physics	2
XXX XXX	Humanities Elective (from General Education Core)	3

Credits 33

Third Year

CHM 221	General Chemistry I	3
CHM 221L	General Chemistry I Laboratory	1
CHM 222	General Chemistry II	3
XXX XXX	Social Sciences Elective from the General Education Core	3
PSY 228	Developmental Psychology	3
PHY 365	Physical Mechanics	3
PHY 375	Electricity and Magnetism I	3
PHY 380	Quantum Mechanics I	3
SED 405	Reading in the Content Area	3
ENG 285	Public Speaking	3
SOC 101	Introduction to the Social Sciences	3

Credits 31

Fourth Year

EDU 381	Classroom and Behavior Management	3
SED 385	Curriculum and Instructional Procedures in Science	3
PHY 468	Optics	3
PHY 498	Sr Project I	2
SED 499	Directed Teaching (internship)	12
Select one of the following Cultural Perspectives (Humanities):		3

ENG 383	African-American Literature, 1940-PRESENT	
MUS 234	African-American Music	
Select one of the following Cultural Perspectives (Social Sciences):		3
HIS 335	African-American History	
HIS 336	African-American History Since 1865	
HIS 371	African History/Cultures 1600-PRESENT	
HRP 320	African American Health	

Credits 29

Total Credits 122

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).

Code	Title	Credits
EDU 201	Foundations of Education	3
SED 233	Seminar in Assessment and Evaluation	3
SED 380	Foundations of Secondary School Methods and Management Instruction	3
SED 420	Educational Technology	3
SED 486	Human Growth and Development	3
SED 488	School Community Relations	3
SED 499	Directed Teaching (internship)	12

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.

Special Academic Programs

- Bachelor of Science in Biology - (DNIMAS) Track (p. 220)
- Bachelor of Science in Biology - Pre-Professional (DNIMAS) Track (p. 219)
- Bachelor of Science in Chemistry - (DNIMAS) Track (p. 221)
- Bachelor of Science in Chemistry - Pre-Medicine (DNIMAS) Track (p. 222)
- Bachelor of Science in Computer Science - (DNIMAS) Computer Engineering Track (p. 224)
- Bachelor of Science in Computer Science - (DNIMAS) Track (p. 223)
- Bachelor of Science in Computer Science - CyberSecurity Track (DNIMAS) (p. 225)
- Bachelor of Science in Computer Science - Software Engineering Track (DNIMAS) (<https://catalog.nsu.edu/undergraduate/science-engineering-technology/special-academic-programs/computer-science-bs-dnimas-software-engineering-track/>)
- Bachelor of Science in Electrical and Electronics Engineering - (DNIMAS) Track (p. 226)
- Bachelor of Science in Mathematics - Applied Mathematics - (DNIMAS) Track (p. 218)
- Bachelor of Science in Optical Engineering - (DNIMAS) Track (p. 227)
- Bachelor of Science in Physics - (DNIMAS) Track (p. 228)

Bachelor of Science in Mathematics - Applied Mathematics - (DNIMAS) Track

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	65
Electives	15
Other Requirements	0
Total Credit Hours	120

Curriculum

First Year		Credits
APS 110	Applied Science Seminar	0
APS 111	Appli Sci Seminar	0
CHM 221L	General Chemistry I Laboratory	1
CHM 223A	General Chemistry I	4
CHM 224A	General Chemistry II	4
CHM 222L	General Chemistry II Laboratory	1
CSC 169	Introduction to Computer Science	3
CSC 200	Advanced Computer Concepts	3
ENG 101H	Honors College English I	3
ENG 102H	Honors College English II	3
HED 100	Personal and Community Health	2
MTH 184H	Honors Calculus I	4
MTH 251H	Honors Calculus II	4
PED 100	Fundamentals of Fitness for Life	1
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
Credits		35

Second Year		Credits
APS 210	Applied Science Seminar	0
APS 211	Appli Sci Seminar	0
MTH 252	Calculus III	4
MTH 300	Linear Algebra	3
MTH 372	Differential Equations	3
PHY 160	University Physics I	4
PHY 160L	University Physics Laboratory I	1
PHY 161	University Physics II	4
PHY 161L	University Physics Laboratory II	1
XXX XXX	Foreign Language Electives	6
XXX XXX	Free Electives	3
SEM 201	Spartan Seminar 201	1
Credits		30

Third Year		Credits
APS 310	Applied Science Seminar	0
APS 311	Appli Sci Seminar	0
ENG 303	Professional & Technical Writing	3
MTH 351	Probability & Statistics I	3
MTH 352	Probability & Statistics II	3
MTH 472	Advanced Calculus II	3

ENG 285H	Honors Public Speaking	3
XXX XXX	Mathematics Elective	3
MTH 311	Modern Geometry I (or Higher)	
XXX XXX	Mathematics Elective	3
XXX XXX	Social Sciences Elective	3
Credits		24

Fourth Year		Credits
APS 410	Applied Science Seminar	0
APS 411		0
MTH 382	Introduction to Applied Mathematics	3
MTH 401	Numeric Analysis I	3
MTH 402	Numeric Analysis II	3
MTH 484	Topics in Applied Mathematics	3
MTH 496	Mathematics Seminar I	2
MTH 497	Mathematics Seminar II	2
XXX XXX	Free Electives	3
XXX XXX	Mathematics Electives	6
XXX XXX	Social Science Elective	3
Credits		28
Total Credits		117

Bachelor of Science in Biology - Pre-Professional (DNIMAS) Track

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	47
Electives	6
Other Requirements	27
Total Credit Hours	120

Curriculum

First Year		Credits
APS 110	Applied Science Seminar	0
APS 111	Appli Sci Seminar	0
BIO 110H & BIO 110L	Honors General Biology and General Biology Laboratory	4
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
BIO 260 & 260L	Integrative Zoology and	4
CHM 221	General Chemistry I	3
CHM 221L	General Chemistry I Laboratory	1
CHM 222	General Chemistry II	3
CHM 222L	General Chemistry II Laboratory	1
ENG 101H	Honors College English I	3
ENG 102H	Honors College English II	3
MTH 184H	Honors Calculus I	4
MTH 251H	Honors Calculus II	4
PED 100	Fundamentals of Fitness for Life	1
Credits		33

Second Year

APS 210	Applied Science Seminar	0
APS 211	Appli Sci Seminar	0
BIO 261 & 261L	General Botany and General Botany Laboratory	4
BIO 310 & 310L	General Microbiology and General Microbiology Laboratory	4
CHM 321	Organic Chemistry I	3
CHM 321L	Organic Chemistry I Laboratory	2
CHM 322	Organic Chemistry II	3
CHM 323L	Synthesis and Analysis in Organic Chemistry Laboratory	2
CSC 170	Computer Programming I	3
HED 100	Personal and Community Health	2
ENG 285H	Honors Public Speaking	3
SOC 110	Introduction to Sociology	3
SEM 201	Spartan Seminar 201	1
Credits		30

Third Year

APS 310	Applied Science Seminar	0
APS 311	Appli Sci Seminar	0

BIO 272 & 272L	Human Anatomy and Human Anatomy Laboratory	4
BIO 362 & 362L	Histology and Microtechniques and Histology & Microtechnique Laboratory	4
CHM 431	Biochemistry I	3
CHM 431L	Biochemistry I Laboratory	2
CHM 432	Biochemistry II	3
CHM 432L	Biochemistry II Laboratory	2
PHY 160	University Physics I	4
PHY 160L	University Physics Laboratory I	1
PHY 161	University Physics II	4
PHY 161L	University Physics Laboratory II	1
CSC 200	Advanced Computer Concepts	3
Credits		31

Fourth Year

APS 410	Applied Science Seminar	0
BIO 351 & 351L	Principles of Genetics and Principles of Genetics Laboratory	4
BIO 364	Seminar and Colloquium in Biology	1
BIO 459	General Physiology	3
BIO 474 & 474L	Molecular Biology and Molecular Biology Laboratory	5
BIO 495	Biostatistics	3
APS 411		0
ENG 203 or ENG 303	Advanced Communication Skills or Professional & Technical Writing	3
XXX XXX	Humanities Elective	3
FIA 201	Basic Art Appreciation	
MUS 301	Music Appreciation	
ENG 207	Introduction to World Literature	
HUM 210	Humanities	
HUM 211	Humanities	
Select one BIO XXX Elective:		4
BIO 263 & 263L	and Vertebrate Embryology Lab	
BIO 278 & 278L	and Cell Biology Laboratory	
Credits		26
Total Credits		120

All Biology courses with the exception of BIO 459 General Physiology and BIO 495 Biostatistics require both lecture (3 credits) and lab (1 credit).

Bachelor of Science in Biology - (DNIMAS) Track

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	47
Electives	6
Other Requirements	27
Total Credit Hours	120

Curriculum

First Year		Credits
APS 110	Applied Science Seminar	0
APS 111	Appli Sci Seminar	0
BIO 110H & BIO 110L	Honors General Biology and General Biology Laboratory	4
BIO 260 & 260L	Integrative Zoology and	4
CHM 221	General Chemistry I	3
CHM 221L	General Chemistry I Laboratory	1
CHM 222	General Chemistry II	3
CHM 222L	General Chemistry II Laboratory	1
ENG 101H	Honors College English I	3
ENG 102H	Honors College English II	3
MTH 184H	Honors Calculus I	4
MTH 251H	Honors Calculus II	4
PED 100	Fundamentals of Fitness for Life	1
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
Credits		33

Second Year

APS 210	Applied Science Seminar	0
APS 211	Appli Sci Seminar	0
BIO 261 & 261L	General Botany and General Botany Laboratory	4
BIO 310 & 310L	General Microbiology and General Microbiology Laboratory	4
CHM 321	Organic Chemistry I	3
CHM 321L	Organic Chemistry I Laboratory	2
CHM 322	Organic Chemistry II	3
CHM 323L	Synthesis and Analysis in Organic Chemistry Laboratory	2
CSC 170	Computer Programming I	3
HED 100	Personal and Community Health	2
ENG 285H	Honors Public Speaking	3
SOC 110	Introduction to Sociology	3
SEM 201	Spartan Seminar 201	1
Credits		30

Third Year

APS 310	Applied Science Seminar	0
APS 311	Appli Sci Seminar	0
BIO XXX:		4

BIO 270 & 270L	Comparative Vertebrate Anatomy and Physiology and Comparative Vertebrate Anatomy & Physiology Laboratory	
BIO 263 & 263L	and Vertebrate Embryology Lab	
BIO 362 & 362L	Histology and Microtechniques and Histology & Microtechnique Laboratory	4
CHM 431	Biochemistry I	3
CHM 431L	Biochemistry I Laboratory	2
CHM 432	Biochemistry II	3
CHM 432L	Biochemistry II Laboratory	2
CSC 200	Advanced Computer Concepts	3
PHY 160	University Physics I	4
PHY 160L	University Physics Laboratory I	1
PHY 161	University Physics II	4
PHY 161L	University Physics Laboratory II	1
Credits		31
Fourth Year		
APS 410	Applied Science Seminar	0
APS 411		0
BIO 351 & 351L	Principles of Genetics and Principles of Genetics Laboratory	4
BIO 364	Seminar and Colloquium in Biology	1
BIO 459	General Physiology	3
BIO 474 & 474L	Molecular Biology and Molecular Biology Laboratory	5
BIO 495	Biostatistics	3
ENG 203/303	Advanced Communication Skills	3
Select one BIO XXX Elective:		4
BIO 263 or BIO 278		
Select one of the following Humanities Electives:		3
HUM 210	Humanities	
HUM 211	Humanities	
MUS 301	Music Appreciation	
FIA 201	Basic Art Appreciation	
ENG 207	Introduction to World Literature	
Credits		26
Total Credits		120

All Biology courses with the exception of BIO 459 General Physiology and BIO 495 Biostatistics require both lecture (3 credits) and lab (1 credit).

Bachelor of Science in Chemistry - (DNIMAS) Track

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	37
Major Requirements	53
Electives	6
Other Requirements	26
Total Credit Hours	122

Curriculum

First Year		Credits
APS 110	Applied Science Seminar	0
APS 111	Appli Sci Seminar	0
CHM 231H & CHM 231R & CHM 221L	General Chemistry I Honors and General Chemistry Applications I and General Chemistry I Laboratory	5
CHM 232H & CHM 232R & CHM 222L	General Chemistry II Honors and General Chemistry Applications II and General Chemistry II Laboratory	5
CSC 170	Computer Programming I	3
CSC 170L	Computer Programming Laboratory I	1
ENG 101H	Honors College English I	3
ENG 102H	Honors College English II	3
HED 100	Personal and Community Health	2
MTH 184H	Honors Calculus I	4
MTH 251H	Honors Calculus II	4
PED 100	Fundamentals of Fitness for Life	1
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
Credits		33
Second Year		
APS 210	Applied Science Seminar	0
APS 211	Appli Sci Seminar	0
CHM 321	Organic Chemistry I	3
CHM 321L	Organic Chemistry I Laboratory	2
CHM 322	Organic Chemistry II	3
CHM 323L	Synthesis and Analysis in Organic Chemistry Laboratory (Honor section required - CHM 323LH)	2
CHM 331	Analytical Chemistry I	3
CHM 331L	Analytical Chemistry I Laboratory	2
MTH 252	Calculus III	4
PHY 160	University Physics I	4
PHY 160L	University Physics Laboratory I	1
PHY 161	University Physics II	4
PHY 161L	University Physics Laboratory II	1
ENG 285H	Honors Public Speaking	3
SEM 201	Spartan Seminar 201	1
Credits		33
Third Year		
APS 310	Applied Science Seminar	0

APS 311	Appli Sci Seminar	0
BIO 110H	Honors General Biology	3
BIO 110L	General Biology Laboratory	1
CHM 332 & 332L	Analytical Chemistry II and Analytical Chemistry II Laboratory	5
CHM 345	Mathematical Methods & Logic for the Physical Sciences	3
CHM 451	Chemistry Seminar I	1
CHM 361	Physical Chemistry I	3
CHM 362	Physical Chemistry II	3
CHM 363L	Physical Chemistry Laboratory	2
CHM 497	Introduction to Research	1
HIS XXX	History from the Core	3
XXX XXX	Cultural Elective from the Core	3
Credits		28
Fourth Year		
APS 410	Applied Science Seminar	0
APS 411		0
XXX XXX	Humanities Elective	6
Restrictive Chemistry Electives	Select six hours of the following:	6
CHM 397	Introduction to Research	
CHM 398	Introduction to Research	
CHM 431L	Biochemistry I Laboratory	
CHM 432	Biochemistry II	
CHM 432L	Biochemistry II Laboratory	
CHM 481	Special Topics in Chemistry	
CHM 497	Introduction to Research	
CHM 498	Introduction to Research (Maximum of 1 elective hour of research)	
XXX XXX	Social Science Seminar	3
CHM 451	Chemistry Seminar I	1
CHM 473	Advanced Inorganic Chemistry	3
CHM 431	Biochemistry I	3
CHM 431L	Biochemistry I Laboratory	2
CHM 498	Introduction to Research	1
ENG 203 or ENG 303	Advanced Communication Skills or Professional & Technical Writing	3
Credits		28
Total Credits		122

Bachelor of Science in Chemistry - Pre-Medicine (DNIMAS) Track

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	31
Major Requirements	58
Electives	7
Other Requirements	26
Total Credit Hours	122

Curriculum

First Year		Credits
APS 110	Applied Science Seminar	0
APS 111	Appli Sci Seminar	0
CHM 231H & CHM 231R	General Chemistry I Honors and General Chemistry Applications I	4
CHM 221L	General Chemistry I Laboratory	1
CHM 232H & CHM 232R	General Chemistry II Honors and General Chemistry Applications II	4
CHM 222L	General Chemistry II Laboratory	1
CSC 170 & 170L	Computer Programming I and Computer Programming Laboratory I	4
ENG 101H	Honors College English I	3
ENG 102H	Honors College English II	3
HED 100	Personal and Community Health	2
MTH 184H	Honors Calculus I	4
MTH 251H	Honors Calculus II	4
PED 100	Fundamentals of Fitness for Life	1
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
Credits		33

Second Year

APS 210	Applied Science Seminar	0
APS 211	Appli Sci Seminar	0
CHM 321	Organic Chemistry I	3
CHM 321L	Organic Chemistry I Laboratory	2
CHM 322	Organic Chemistry II	3
CHM 323L	Synthesis and Analysis in Organic Chemistry Laboratory (*Honor section Required - CHM 323LH*)	2
CHM 331	Analytical Chemistry I	3
CHM 331L	Analytical Chemistry I Laboratory	2
MTH 252	Calculus III	4
PHY 160	University Physics I	4
PHY 160L	University Physics Laboratory I	1
PHY 161	University Physics II	4
PHY 161L	University Physics Laboratory II	1
ENG 285H	Honors Public Speaking	3
SEM 201	Spartan Seminar 201	1
Credits		33

Third Year

APS 310	Applied Science Seminar	0
---------	-------------------------	---

APS 311	Appli Sci Seminar	0
XXX XXX	Restricted Biology Elective	3
BIO 300 Level or Higher		
BIO 110H & BIO 110L	Honors General Biology and General Biology Laboratory	4
CHM 332	Analytical Chemistry II	3
CHM 332L	Analytical Chemistry II Laboratory	2
CHM 345	Mathematical Methods & Logic for the Physical Sciences	3
CHM 451 & CHM 452	Chemistry Seminar I and Chemistry Seminar II	2
CHM 361	Physical Chemistry I	3
CHM 362	Physical Chemistry II	3
CHM 363L	Physical Chemistry Laboratory	2
CHM 497 & CHM 498	Introduction to Research and Introduction to Research	2
CHM 473	Advanced Inorganic Chemistry	3

Credits 30

Fourth Year

APS 410	Applied Science Seminar	0
APS 411		0
XXX XXX	Restricted Biology Electives	4
ENG 203 or ENG 303	Advanced Communication Skills or Professional & Technical Writing	3
XXX XXX	Social Science Elective or HIS from the Core	3
XXX XXX	Humanities & Cultural Elective from the Core	6
CHM 431 & 431L	Biochemistry I and Biochemistry I Laboratory	5
CHM 432 & 432L	Biochemistry II and Biochemistry II Laboratory	5

Credits 26

Total Credits 122

Bachelor of Science in Computer Science - (DNIMAS) Track

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	53
Electives	27
Other Requirements	0
Total Credit Hours	120

Curriculum

First Year		Credits
APS 110	Applied Science Seminar	0
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
CSC 101	Introduction to the Computer Science Profession	1
CSC 170	Computer Programming I	3
CSC 170L	Computer Programming Laboratory I	1
MTH 184H	Honors Calculus I	4
PHY 160	University Physics I	4
PHY 160L	University Physics Laboratory I	1
APS 111	Appli Sci Seminar	0
CSC 260	Computer Programming II	3
CSC 260L	Computer Programming II Laboratory	1
MTH 251H	Honors Calculus II	4
XXX XXX	Social Science Elective	3
HIS 101	Hist of Civilizat	
HIS 103	United States History Since 1865	
BUS 175	Introduction to Business & Entrepreneurship	
ECN 200	Basic Principles of Economics	
SOC 101	Introduction to the Social Sciences	
PHY 161	University Physics II	4
PHY 161L	University Physics Laboratory II	1
Credits		32

Second Year

SEM 201	Spartan Seminar 201	1
APS 210	Applied Science Seminar	0
CSC 268	Comp Organi & Assem	3
MTH 252	Calculus III (*** Take the Honors section ***)	4
ENG 101H	Honors College English I	3
CHM 221	General Chemistry I	3
CHM 221L	General Chemistry I Laboratory	1
APS 211	Appli Sci Seminar	0
CSC 295	Java Applications Programming	3
MTH 371	Discrete Mathematical Structures	4
ENG 102H	Honors College English II	3
CSC 275	Fundamentals of Cybersecurity	3
Credits		28

Third Year

APS 310	Applied Science Seminar	0
CSC 292	Unix and C Programming	3
CSC 361	Survey of Programming Languages	3
MTH 351	Probability & Statistics I	3
XXX XXX	Free Elective	2
ENG 285H	Honors Public Speaking	3
APS 311	Appli Sci Seminar	0
CSC 372	Data Structures	3
CSC 380	Software Engineerng	3
XXX XXX	Foreign Language Elective	3
ENG 303	Professional & Technical Writing	3
HED 100	Personal and Community Health	2
PED 100	Fundametals of Fitness for Life	1
Credits		29

Fourth Year

APS 410	Applied Science Seminar	0
CSC 430	Data Communications	3
CSC 464	Operating Systems	3
CSC 498	Computer Science Seminar I	2
XXX XXX	Computer Science Elective (300 Level or Above)	6
XXX XXX	CSC or Math Electives (300 Level or Above)	6
XXX XXX	Humanities Cultural Elective	3
APS 411		0
CSC 468	Computer Architecture	3
CSC 499	Computer Science Seminar II	2
XXX XXX	Social Science Cultural Elective	3
Credits		31
Total Credits		120

Bachelor of Science in Computer Science - (DNIMAS) Computer Engineering Track

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	69
Electives	17
Total Credit Hours	126

Curriculum

First Year		Credits
APS 110	Applied Science Seminar	0
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
CSC 101	Introduction to the Computer Science Profession	1
CSC 170	Computer Programming I	3
CSC 170L	Computer Programming Laboratory I	1
MTH 184H	Honors Calculus I	4
PHY 160	University Physics I	4
PHY 160L	University Physics Laboratory I	1
APS 111	Appli Sci Seminar	0
CSC 260	Computer Programming II	3
CSC 260L	Computer Programming II Laboratory	1
MTH 251H	Honors Calculus II	4
XXX XXX	Social Science Elective	3
PHY 161	University Physics II	4
PHY 161L	University Physics Laboratory II	1
Credits		32

Second Year

SEM 201	Spartan Seminar 201	1
APS 210	Applied Science Seminar	0
CSC 268	Comp Organi & Assem	3
MTH 252	Calculus III (** Take the Honors section ***)	4
ENG 101H	Honors College English I	3
CSC 275	Fundamentals of Cybersecurity	3
APS 211	Appli Sci Seminar	0
CSC 295	Java Applications Programming	3
MTH 371	Discrete Mathematical Structures	4
ENG 102H	Honors College English II	3
CHM 222	General Chemistry II	3
CHM 222L	General Chemistry II Laboratory	1
Credits		28

Third Year

APS 310	Applied Science Seminar	0
CSC 292	Unix and C Programming	3
CSC 361	Survey of Programming Languages	3
EEN 201	Electrical Network Theory I	3
EEN 201L	Electrical Network Theory I Laboratory	1
MTH 351	Probability & Statistics I	3

ENG 285H	Honors Public Speaking	3
APS 311	Appli Sci Seminar	0
EEN 203	Electronic Principles	3
CSC 372	Data Structures	3
CSC 380	Software Engineering	3
MTH 372	Differential Equations	3
HED 100	Personal and Community Health	2
PED 100	Fundamentals of Fitness for Life	1
Credits		31

Fourth Year

APS 410	Applied Science Seminar	0
CSC 430	Data Communications	3
CSC 464	Operating Systems	3
CSC 498	Computer Science Seminar I	2
ENG 303	Professional & Technical Writing	3
APS 411		0
EEN 231	Digital Electronics Logic Design	3
EEN 231L	Digital Logic Design Laboratory	1
EEN 431	Microcontrollers	3
CSC 468	Computer Architecture	3
CSC 499	Computer Science Seminar II	2
XXX XXX	Humanities Cultural Elective	3
XXX XXX	Foreign Language Elective	3
XXX XXX	Social Science Cultural Elective	3
XXX XXX	Computer Science Elective (300 Level or Above)	3
Credits		35
Total Credits		126

Bachelor of Science in Computer Science - CyberSecurity Track (DNIMAS)

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	65
Electives	15
Other Requirements	0
Total Credit Hours	120

Curriculum

First Year		Credits
APS 110	Applied Science Seminar	0
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
CSC 101	Introduction to the Computer Science Profession	1
CSC 170	Computer Programming I	3
CSC 170L	Computer Programming Laboratory I	1
MTH 184H	Honors Calculus I	4
PHY 160	University Physics I	4
PHY 160L	University Physics Laboratory I	1
APS 111	Applied Science Seminar	0
CSC 260	Computer Programming II	3
MTH 251H	Honors Calculus II	4
XXX XXX	Social Science Elective	3
PHY 161	University Physics II	4
PHY 161L	University Physics Laboratory II	1
CSC 260L	Computer Programming II Laboratory	1
Credits		32
Second Year		
SEM 201	Spartan Seminar 201	1
APS 210	Applied Science Seminar	0
CSC 268	Computer Organization	3
MTH 252	Calculus III (**Take the Honors section**)	4
ENG 101H	Honors College English I	3
CSC 275	Fundamentals of Cybersecurity	3
CHM 221	General Chemistry I	3
CHM 221L	General Chemistry I Laboratory	1
APS 211	Applied Science Seminar	0
CSC 295	Java Applications Programming	3
MTH 371	Discrete Mathematical Structures	4
ENG 102H	Honors College English II	3
XXX XXX	Computer Science Elective (300 level or Above)	3
Credits		31
Third Year		
APS 310	Applied Science Seminar	0
CSC 292	Unix and C Programming	3
CSC 361	Survey of Programming Languages	3

MTH 351	Probability & Statistics I	3
XXX XXX	Foreign Language Elective	3
ENG 285H	Honors Public Speaking	3
APS 311	Applied Science Seminar	0
CSC 372	Data Structures	3
CSC 380	Software Engineering	3
XXX XXX	Free Elective	2
ENG 303	Professional & Technical Writing	3
HED 100	Personal and Community Health	2
PED 100	Fundamentals of Fitness for Life	1

Credits 29

Fourth Year

APS 410	Applied Science Seminar	0
CSC 430	Data Communications	3
CSC 464	Operating Systems	3
CSC 498	Computer Science Seminar I	2
CSC 313	Network Administration	3
XXX XXX	Humanities Cultural Elective	3
APS 411	Applied Science Seminar	0
CSC 468	Computer Architecture	3
CSC 499	Computer Science Seminar II	2
CSC 494	Digital Forensics	3
CSC 449	Cryptography and Network Security	3
XXX XXX	Social Science Cultural Elective	3

Credits 28

Total Credits 120

Bachelor of Science in Electrical and Electronics Engineering - (DNIMAS) Track

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	54
Electives	24
Other Requirements	15
Total Credit Hours	133

Curriculum

First Year		Credits
APS 110	Applied Science Seminar	0
APS 111	Appli Sci Seminar	0
EEN 100	Intro Elec Eng'rng	3
EEN 102	Eng Use Computers	3
ENG 101H	Honors College English I	3
ENG 102H	Honors College English II	3
MTH 184H	Honors Calculus I	4
MTH 251H	Honors Calculus II	4
PED 100	Fundamentals of Fitness for Life	1
PHY 160	University Physics I	4
PHY 160L	University Physics Laboratory I	1
PHY 161	University Physics II	4
PHY 161L	University Physics Laboratory II	1
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
Credits		33

Second Year		Credits
APS 210	Applied Science Seminar	0
APS 211	Appli Sci Seminar	0
CHM 221L	General Chemistry I Laboratory	1
CHM 223A	General Chemistry I	4
EEE 201	Electrical Network Theory I	3
EEE 201L	Electrical Network Theory I	1
EEN 202	Electrical Network Theory II	3
EEN 202L	Electrical Network Theory II Laboratory	1
EEE 231	Digital Logic Design	3
EEN 211	Material Science & Engineering	3
HED 100	Personal and Community Health	2
MTH 252	Calculus III	4
MTH 372	Differential Equations	3
ENG 285H	Honors Public Speaking	3
XXX XXX	Humanities Elective	3
SEM 201	Spartan Seminar 201	1
Credits		35

Third Year		Credits
APS 310	Applied Science Seminar	0
APS 311	Appli Sci Seminar	0
EEN 301	Engineering Electronics I	3

EEN 301L	Electronic Devices Laboratory	1
EEN 302	Microelectronics	3
EEN 302L	Microelectronics Laboratory	1
EEN 305	Signals/Systems I	3
EEN 321	Electromagnetic Field Theory	3
EEN 331	Microprocessors	3
EEN 331L	Microprocessor Lab	1
EEN 333	Digital Integrated Circuits	3
EEN 333L	Ditigal Integrated Circuits Laboratory	1
EEN 351	Communications Engineering I	3
MTH 300	Linear Algebra	3
XXX XXX	Humanities Elective	3

Credits		31
Fourth Year		Credits
APS 410	Applied Science Seminar	0
APS 411		0
EEN 401	Electronics Engineering Seminar	1
EEN 311	Engnrng Elect Lab I	3
EEN 471	Control Systems Analysis	3
EEN 498	Sr Design Proj I	3
EEN 499	Sr Design Proj II	3
XXX XXX	Cultural Elective	3
XXX XXX	Engineering Elective	3
XXX XXX	Social Science Elective	6
XXX XXX	Technical Elective	3
XXX XXX	Unrestrictive Elective	3
Credits		31
Total Credits		130

The Technical Elective may be chosen from 300 level or above courses in math, computer science, chemistry, physics or engineering.

Bachelor of Science in Optical Engineering - (DNIMAS) Track

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	54
Electives	24
Other Requirements	15
Total Credit Hours	133

Curriculum

First Year		Credits
APS 110	Applied Science Seminar	0
APS 111	Appli Sci Seminar	0
EEN 100	Intro Elec Eng'rng	3
EEN 102	Eng Use Computers	3
ENG 101H	Honors College English I	3
ENG 102H	Honors College English II	3
MTH 184H	Honors Calculus I	4
MTH 251H	Honors Calculus II	4
PED 100	Fundamentals of Fitness for Life	1
PHY 160	University Physics I	4
PHY 160L	University Physics Laboratory I	1
PHY 161	University Physics II	4
PHY 161L	University Physics Laboratory II	1
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
Credits		33

Second Year

APS 210	Applied Science Seminar	0
APS 211	Appli Sci Seminar	0
CHM 221L	General Chemistry I Laboratory	1
CHM 223A	General Chemistry I	4
EEE 201	Electrical Network Theory I	3
XXX XXXL	Electrical Network Laboratory	1
EEE 203	Electronic Principles	3
EEN 211	Material Science & Engineering	3
HED 100	Personal and Community Health	2
MTH 252	Calculus III	4
MTH 372	Differential Equations	3
OEN 200	Geometric & Instr Optics	3
OEN 200L	Geometric & Instr Optics Lab	1
OEN 201	Geo & Inst Optics II	3
OEN 201L	Physical and Instrumental Optics Lab	1
ENG 285H	Honors Public Speaking	3
SEM 201	Spartan Seminar 201	1
Credits		36

Third Year

APS 310	Applied Science Seminar	0
APS 311	Appli Sci Seminar	0
EEN 321	Electromagnetic Field Theory	3
MTH 300	Linear Algebra	3

MTH 351	Probability & Statistics I	3
OEN 320	Optical Systems Analysis	3
OEN 340	Lasers and Photonics	3
OEN 340L	Laser 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
Credits		31

Fourth Year

APS 410	Applied Science Seminar	0
APS 411		0
EEN 311	Engnrng Elect Lab I	3
OEN 460	Optical Communications I	3
OEN 460L	Optical Communication I Laboratory	1
OEN 461	Optical Communications II	3
OEN 461L	Optical Communications II Laboratory	1
OEN 490	Sr Seminar	1
OEN 498	Sr Project I	3
OEN 499	Sr 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
Credits		33
Total Credits		133

The Technical Elective may be chosen from 300 level or above courses in math, computer science, chemistry, physics or engineering.

Bachelor of Science in Physics - (DNIMAS) Track

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	39
Electives	6
Other Requirements	35
Total Credit Hours	120

Curriculum

First Year		Credits
APS 110	Applied Science Seminar	0
APS 111	Appli Sci Seminar	0
ENG 101H	Honors College English I	3
ENG 102H	Honors College English II	3
HED 100	Personal and Community Health	2
MTH 184H	Honors Calculus I	4
MTH 251H	Honors Calculus II	4
PED 100	Fundamentals of Fitness for Life	1
PHY 160	University Physics I	4
PHY 160L	University Physics Laboratory I	1
PHY 161	University Physics II	4
PHY 161L	University Physics Laboratory II	1
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
Credits		29

Second Year		Credits
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	Mathematical Methods Physical Sciences I	3
PHY 350	Modern Physics	3
ENG 285H	Honors Public Speaking	3
XXX XXX	Humanities Elective	3
XXX XXX	Computer Science Elective	3
SEM 201	Spartan Seminar 201	1
Credits		31

Third Year		Credits
APS 310/311	Applied Science Seminar	0
PHY 351	Modern Physics	2
CHM 221L	General Chemistry I Laboratory	1
CHM 222L	General Chemistry II Laboratory	1
CHM 223A	General Chemistry I	4
CHM 224A	General Chemistry II	4
PHY 365	Physical Mechanics	3
PHY 366	Physical Mechanics	3

PHY 375	Electricity and Magnetism I	3
PHY 380	Quantum Mechanics I	3
PHY 399	Advanced Laboratory	2
PHY 445	Mathematical Methods for Physical Sciences II	3
XXX XXX	Social Science Elective	3

Credits 32

Fourth Year

APS 410	Applied Science Seminar	0
APS 411		0
PHY 356	Heat and Thermodynamics	3
PHY 468	Optics	3
PHY 475	Electricity and Magnetism II	3
PHY 480	Quantum Mechanics II	3
PHY 498	Sr Project I	2
PHY 499	Sr Project II	2
XXX XXX	Free Electives	6
XXX XXX	Cultural Elective	6

Credits 28

Total Credits 120

Technology

Dr. Jeenson Sheen
Department Chair
(757) 823-8057

The Department offers degrees in the following program areas:

- Architectural Drafting Technology;
- Computer Engineering Technology;
- Construction Management Engineering Technology; and
- Electronics Engineering Technology.

All of the Technology programs are accredited by

The Association of Technology, Management, and Applied Engineering (ATMAE)
PMB 219
8865 Norwin Ave Ste. 27
North Huntingdon, PA 15642
Office Phone: (724) 201-6447

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.

Technology Programs

- Associate of Science in Architectural Drafting (p. 230)
- Bachelor of Science in Computer Engineering Technology (p. 232)
- Bachelor of Science in Construction Management Engineering Technology (p. 230)
- Bachelor of Science in Electronics Engineering Technology (p. 234)

Associate of Science 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	Credits
General Education Core (p. 38)	28
Major Requirements	33
Electives	0
Other Requirements	6
Total Credit Hours	67

Curriculum

First Year		Credits
CMET 140	Introduction to Construction Management	1
CMET 162	Materials of Construction	3
CMET 262	Methods of Building Construction I	3
CMET 262L	Construction Methods 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
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 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
Credits		34

Second Year

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
Select one of the following Humanities Electives:		3
HUM 210	Humanities	
HUM 211	Humanities	
FIA 201	Basic Art Appreciation	
MUS 301	Music Appreciation	
ENG 207	Introduction to World Literature	
PHY 152	General Physics	3
PHY 152L	General Physics Laboratory I	1
TMD 225	Mechanics I: Statics	3
TMD 251	Advanced Cad	3

Select one of the following Social Science Electives: 3

HIS 100	History of World Societies I	
HIS 101	Hist of Civilizat	
ECN 200	Basic Principles of Economics	
PSY 210	Introduction to Psychology	
SOC 101	Introduction to the Social Sciences	
Credits		33
Total Credits		67

GENERAL EDUCATION REQUIREMENTS FOR THE ASSOCIATE DEGREE IN ARCHITECTURAL DRAFTING

Code	Title	Credits
University Foundations		
SEM 101	Spartan Seminar 101	1
SEM 102	Spartan Seminar 102	1
SEM 201	Spartan Seminar 201	1
Communications		
ENG 101	College English I	3
ENG 102	College English II	3
Health and Physical Education		
PED 100	Fundamentals of Fitness for Life	1
HED 100	Personal and Community Health	2
Natural Sciences		
PHY 152	General Physics	3
PHY 152L	General Physics Laboratory I	1
Digital, Computer & Telecommunications		
CSC 150	Computer Literacy	3
Mathematics		
MTH 153	College Algebra & Trigonometry	3
Social Sciences		
Select one of the following:		3
HIS 100	History of World Societies I	
HIS 101	Hist of Civilizat	
PSY 210	Introduction to Psychology	
SOC 101	Introduction to the Social Sciences	
ECN 200	Basic Principles of Economics	
Humanities Elective		
Select one of the following:		3
HUM 210	Humanities	
HUM 211	Humanities	
FIA 201	Basic Art Appreciation	
MUS 301	Music Appreciation	
ENG 207	Introduction to World Literature	
Total Credits		28

Bachelor of Science in Construction Management Engineering Technology

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.

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	52
Electives	6
Other Requirements	23
Total Credit Hours	121

Curriculum

First Year		Credits
CMET 140	Introduction to Construction Management	1
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
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
Credits		30

Second Year

SEM 201	Spartan Seminar 201	1
CMET 260	Building Codes and Specifications	3
CMET 262	Methods of Building Construction I	3
CMET 262L	Construction Methods Lab	1
CMET 263	Fundamentals of Surveying	3
CMET 263L	Fundamentals of Surveying Lab	1
CMET 265	Architectural Details	3
CMET 266	Architectural Drafting	3
TMD 225	Mechanics I: Statics	3
IMT 244	Industrial Specification & Technical Documentation	3
MTH 184	Calculus I	4
PHY 152	General Physics	3
PHY 152L	General Physics Laboratory I	1
Credits		32

Third Year

CMET 363	Methods of Building Construction II	3
CMET 364	Steel Structures	3
CMET 370	Cost Estimates and Quality Control I	3
BUS 281	Legal Environment for Business	3

CHM 210	General Chemistry for Engineers	3
ENG 285	Public Speaking	3
IMT 205	Industrial Safety & Management	3
TMD 345	Mechanics II: Strength of Materials	3
TMD 345L	Mechanics II Laboratory: Properties of Materials	1
Select one of the following Social Science Electives:		3
PSY 210	Introduction to Psychology	
HIS 100	History of World Societies I	
HIS 101	Hist of Civilizat	
SOC 101	Introduction to the Social Sciences	
ECN 200	Basic Principles of Economics	
CMET 376	Soil Mechanics	3
XXX-XXX	Elective	1
Credits		32

Fourth Year

CMET 462	Problem Analysis and Planning	3
CMET 464	Organization and Supervision of Construction	3
CMET 466	Construction Management Capstone (Capstone)	3
IMT 420	Labor & Industrial Relations	3
Select one of the following Cultural Social Science Electives:		3
HIS 335	African-American History	
HIS 336	African-American History Since 1865	
HIS 371	Modern African History & Cultures 1600-PRESENT	
SOC 237	Racial & Ethnic Minorities	
POS 315	African American Politics	
PSY 340	Psychology of the African-American	
Select one of the following Humanities Electives:		3
FIA 201	Basic Art Appreciation	
HUM 210	Humanities	
HUM 211	Humanities	
HUM XXX		
MUS 301	Music Appreciation	
Foreign language		
ENG 207	Introduction to World Literature	
Select one of the following Cultural Humanities Electives:		3
ENG 383	African-American Literature, 1940-PRESENT	
FIA 370	African/Afro-American Art	
MUS 234	African-American Music	
XXX XXX	Elective	3
Select one of the following Technical Electives:		3
TMD 251	Advanced Cad	
IMT 303	Internship in Technology	
Credits		27
Total Credits		121

Bachelor of Science in Computer Engineering Technology

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.

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	27
Major Requirements	50
Electives	5
Other Requirements	38
Total Credit Hours	120

Curriculum

First Year		Credits
IMT 170	Introduction to Technology	1
EET 111 & 111L	Circuit Analysis I and Circuit Analysis I Laboratory	4
MTH 153	College Algebra & Trigonometry	3
ENG 101	College English I	3
HED 100	Personal and Community Health	2
PED 100	Fundamentals of Fitness for Life	1
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
EET 212 & 212L	Circuit Analysis II and Circuit Analysis II Laboratory	4
CSC 170 & 170L	Computer Programming I and Computer Programming Laboratory I	4
MTH 184	Calculus I	4
ENG 102	College English II	3
Credits		31
Second Year		
EET 213 & 213L	Electronic Devices I and Electronic Devices I Laboratory	4
EET 220 & 220L	Digital Electronics and Digital Electronics Laboratory	4
IMT 244	Industrial Specification & Technical Documentation	3
PHY 152 & 152L	General Physics and General Physics Laboratory I	4
SEM 201	Spartan Seminar 201	1
EET 313 & 313L	Electronic Devices II and Electronic Devices II Laboratory	4
CET 304 & 304L	Digital System Design and Digital Systems Design Laboratory	4
PHY 153 & 153L	General Physics and General Physics Laboratory II	4
ENG 285	Public Speaking	3
Credits		31

Third Year

CET 305 & 305L	Computer Organization and Computer Organization Laboratory	4
IMT 205	Industrial Safety & Management	3
MTH 250	Elementary Statistics Concepts	3
XXX XXX	Select one Social Science Elective:	3
SOC 101	Introduction to the Social Sciences	
HIS 100	History of World Societies I	
HIS 101	Hist of Civilizat	
HIS 103	United States History Since 1865	
BUS 175	Introduction to Business & Entrepreneurship	
PSY 210	Introduction to Psychology	
ECN 200	Basic Principles of Economics	
XXX XXX	Select one Humanities Elective:	3
HUM 210	Humanities	
HUM 211	Humanities	
FIA 201	Basic Art Appreciation	
ENG 207	Introduction to World Literature	
MUS 301	Music Appreciation	
CET 315 & 315L	Microprocessors and Microprocessor Laboratory	4
CET 336 & 336L	Computer Networks Technology and Computer Networks Technology I Laboratory	4
TMD 151	Introduction to Cad	3
XXX XXX	Elective	3
Credits		30

Fourth Year

CET 432 & 432L	Computer Interfaces & Peripheral Devices and Computer Interfaces Laboratory	4
CET 436 & 436L	Computer Networks Technology II and Computer Networks Technology II Laboratory	4
EET 413 & 413L	Digital Communications Systems and Digital Communications Systems Laboratory	4
EET 497L	Sr Project A: a Capstone Experience	1
IMT 413	Project Management	3
EET 498L	Sr Project B: a Capstone Experience	1
IMT 445	Statistical Quality Control	3
XXX XXX	Select one Humanities Elective:	3
ENG 383	African-American Literature, 1940-PRESENT	
FIA 370	African/Afro-American Art	
MUS 234	African-American Music	
XXX XXX	Select one Cultural Elective:	3
HIS 335	African-American History	
HIS 336	African-American History Since 1865	
HIS 371	Modern African History & Cultures 1600-PRESENT	
SOC 237	Racial & Ethnic Minorities	
POS 315	African American Politics	
PSY 340	Psychology of the African-American	

XXX XXX: Elective	2
Credits	28
Total Credits	120

Bachelor of Science in Electronics Engineering Technology

The Electronics 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.

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	45
Electives	7
Other Requirements	28
Total Credit Hours	120

Curriculum

First Year		Credits
IMT 170	Introduction to Technology	1
EET 111	Circuit Analysis I	3
EET 111L	Circuit Analysis I Laboratory	1
MTH 153	College Algebra & Trigonometry	3
ENG 101	College English I	3
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
EET 212	Circuit Analysis II	3
EET 212L	Circuit Analysis II Laboratory	1
MTH 184	Calculus I	4
ENG 102	College English II	3
PED 100	Fundamentals of Fitness for Life	1
SOC XXX	Social Science Elective	3
Credits		28
Second Year		
EET 213	Electronic Devices I	3
EET 213L	Electronic Devices I Laboratory	1
EET 220	Digital Electronics	3
EET 220L	Digital Electronics Laboratory	1
IMT 244	Industrial Specification & Technical Documentation	3
PHY 152	General Physics	3
PHY 152L	General Physics Laboratory I	1
SEM 201	Spartan Seminar 201	1
EET 313	Electronic Devices II	3
ELT 313L	Electronic Devices II Laboratory	1
CET 304	Digital System Design	3
CET 304L	Digital Systems Design Laboratory	1
PHY 153	General Physics	3
PHY 153L	General Physics Laboratory II	1
CSC 170	Computer Programming I	3
CSC 170L	Computer Programming Laboratory I	1
Credits		32

Third Year

CET 305 & 305L	Computer Organization and Computer Organization Laboratory	4
IMT 205	Industrial Safety & Management	3
TMD 151	Introduction to Cad	3
MTH 250	Elementary Statistics Concepts	3
ENG 285	Public Speaking	3
EET 314	Instrumentation Measurement & Control	3
EET 315	Analog Communication Systems	3
EET 315L	Analog Communication Systems Laboratory	1
CET 315 & 315L	Microprocessors and Microprocessor Laboratory	4
CET 336	Computer Networks Technology	3
CET 336L	Computer Networks Technology I Laboratory	1
XXX-XXX	Elective	3
Credits		34

Fourth Year

HED 100	Personal and Community Health	2
EET 413	Digital Communications Systems	3
EET 413L	Digital Communications Systems Laboratory	1
EET 497L	Sr Project A: a Capstone Experience	1
IMT 413	Project Management	3
XXX XXX	Select one Cultural Perspective Elective:	3
ENG 383	African-American Literature, 1940-PRESENT	
MUS 234	African-American Music	
HIS 335	African-American History	
HIS 336	African-American History Since 1865	
HIS 371	African History/Cultures 1600-PRESENT	
HIS 370	Early African History/Cultures to 1600	
SOC 237	Racial & Ethnic Minorities	
POS 315	African American Politics	
PSY 340	Psychology of the African-American	
XXX XXX	Select one Humanities Elective:	3
HUM 210	Humanities	
HUM 211	Humanities	
FIA 201	Basic Art Appreciation	
FIA 270	History of Art Survey I	
ENG 207	Introduction to World Literature	
MUS 301	Music Appreciation	
EET 498L	Sr Project B: a Capstone Experience	1
IMT 445	Statistical Quality Control	3
XXX XXX	Select one Social Science Elective:	3
SOC 101	Introduction to the Social Sciences	
HIS 100	History of World Societies I	
HIS 101	History of World Societies II	
HIS 103	United States History Since 1865	
BUS 175	Introduction to Business & Entrepreneurship	
PSY 210	Introduction to Psychology	

ECN 200	Basic Principles of Economics	
XXX XXX	Electives	3
	Credits	26
	Total Credits	120

SCHOOL OF SOCIAL WORK

Dr. Isiah Marshall, Jr., Dean

(757) 823-8648

Dr. Kirsten S. Ericksen, Associate Dean

(757) 823-8296

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 empower individuals, families, and communities. The School and its programs emphasize the values of social justice, social responsibility, and respect for human rights, dignity, and diversity. The School is especially committed to addressing 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 BSW Program Director is responsible for the BSW Program Curriculum. The MSW Program Director is responsible for the MSW Program Curriculum. The Director of the Ph.D. Program is responsible for the Ph.D. Program.

Admission Requirements

BSW applicants must meet University requirements for admission. After completing the first two years of pre-social work course requirements, students may apply to the Professional Program for the BSW degree. The formal application process and requirements for admission to the professional phase of the Social Work Program are as follows:

1. The student must have completed the first two years of basic core requirements and pre-social work requirements, and maintain a minimum cumulative grade point average of 2.0 on the 4.0 scale (an overall average of C or better).
2. The student must complete and submit all Professional Program application materials to the Director of the Baccalaureate Social Work Program.
3. The student must complete or be enrolled in ENG 299 Writing Competency Exam.
4. Continued matriculation at the professional level of the Baccalaureate Social Work 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 social work courses.
 - c. Must have earned a grade of C or better in social work courses and designated courses as specified in the Social Work curriculum.
 - d. Complete the degree requirements in accordance with the University Catalog and School of Social Work Field Manual.

School of Social Work Programs

- Baccalaureate in Social Work (p. 237)

Baccalaureate in Social Work

Dr. Kirsten S. Ericksen
Baccalaureate Program Director (I)
(757) 823-8296
Email: ksericksen@nsu.edu

The Baccalaureate in Social Work (BSW) 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 (BSW) 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 generalist level of social work practice. Specific criteria are, therefore, established for admission to and continued enrollment in the professional program.

BSW Program Mission

The Baccalaureate in Social Work Program prepares students who are capable of delivering social work services at the foundational level using a generalist practice approach that reflects multi-level systems. The program empowers students to address social injustices, with an emphasis on cultural diversity, critical thinking, and human rights.

Goals

The goals of the BSW Program are

1. To prepare the student for employment as a generalist professional social work practitioner utilizing a generalist approach
2. To prepare the student to work with diverse populations with a particular commitment to the affirmation of the unique diversity of ethnically and culturally diverse populations
3. To prepare students to deliver direct services that strengthen and empower individuals, families, groups, organizations, and communities
4. To prepare students to master the core competencies as explicated in the Educational Policy and Accreditation Standards 2015, Council on Social Work Education (CSWE), at the beginning professional level.

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (p. 38)	40
Major Requirements	51
Other Requirements	29
Total Credit Hours	120

Curriculum

Pre-Social Work Requirements

Course	Title	Credits
First Year		
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
BIO 105 & 105L	Human Biology and Human Biology Lab	4
CSC 150	Computer Literacy ¹	3
ENG 101	College English I ¹	3
ENG 102	College English II ¹	3
HED 100	Personal and Community Health	2

MTH 103	Mathematics in General Education	3
PED 100	Fundamentals of Fitness for Life	1
SWK 199	Professional Dev Leadership & Ethics	2
Select one of the following:		3
HIS 100	History of World Societies I	
HIS 101	History of World Societies II	
HIS 102	United States History to 1865	
HIS 103	United States History Since 1865	
PSY 210	Introduction to Psychology ¹	3
SOC 101	Introduction to the Social Sciences	3
XXX XXX	Restrictive Elective ²	2

Credits 34

Second Year

SEM 201	Spartan Seminar 201	1
ECN 200	Basic Principles of Economics	3
HUM 210	Humanities ³	3
POS 231 or POS 100	American State and Local Government ¹ or American Government, American Government	3
PSY 280	Abnormal Psychology ¹	3
ENG 285	Public Speaking	3
SWK 200	Introduction to Social Work	3
SWK 207	Social Welfare Policy I	3
SWK 220	Human Behavior & Social Environment I	3
SCI 101	Physical Science for Non-Science Majors	3
XXX XXX	Optional Elective	3

Credits 31

Total Credits 65

¹ Minimum Grade of C required in all Social Work courses and those with ¹ beside them.

² Logic, Philosophy, Problem Solving Cluster (i.e. SOC 230 Social Problems)

³ FIA 201 Basic Art Appreciation or MUS 301 Music Appreciation, ENG 207 Introduction to World Literature

Professional Social Work Requirements

Course	Title	Credits
Third Year		
SOC 331 or PSY 250	Social Psychology or Social Psychology	3
SOC 355	Social Statistics ¹	3
SWK 300	Social Welfare Policy II	3
SWK 309	Human Behavior & Social Environment II	3
SWK 312	Introduction to Generalist Practice	3
SWK 313	Gen Practice Individuals/Families	3
SWK 319	Human Behavior & Social Environment III	3
SWK 320	Human Diversity & Social Justice in SW	3
SWK 333	Methods of Social Work Research	3
Select one of the following Cultural Perspectives (Social Sciences):		3
HIS 335	African American History	
HIS 336	African American History Since 1865	
HIS 370	Early African History/Cultures to 1600	

HIS 371	African History/Cultures 1600-PRESENT	
JRN 299	Multiculturalism and Mass Media	
PSY 340	Psychology of the African American	
SOC 237	Racial & Ethnic Minorities	
POS 315	African American Politics	
Credits		30
Fourth Year		
SWK 318	Gen Prac Group Organization & Community	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	Bsw Field Practicum Orientation I	0
SWK 498B	Bsw Field Practicum Orientation II	0
Select one of the following Social Work Electives (Restricted-Advanced Policy):		3
SWK 411	Contemporary Social Policy Issues	
SWK 497	Macro/Micro Persp Inter Social Welfare	
XXX XXX	Social Work Elective	3
Select one of the following Cultural Perspectives (Humanities):		3
ENG 383	African American Literature	
FIA 370	African/African-American Art	
MUS 234	African American Music	
Credits		27
Total Credits		57

¹ Minimum Grade of C required in all Social Work courses and those with ¹ beside them.

*****Restrictive Elective (Natural Sciences) - SCI 101 Physical Science for Non-Science Majors, Astronomy, Geology, Oceanography, Meteorology

COURSE DESCRIPTIONS

A

- Academic Engagement Seminar (SEM) (<https://catalog.nsu.edu/undergraduate/course-descriptions/sem/>)
- Accounting (ACC) (p. 240)
- Astronomy (AST) (p. 241)

B

- Biology (BIO) (p. 241)
- Business (BUS) (<https://catalog.nsu.edu/undergraduate/course-descriptions/bus/>)

C

- Chemistry (CHM) (p. 244)
- Computer Engineering Technology (CET) (p. 247)
- Computer Literacy - Music (CLM) (p. 247)
- Computer Science (CSC) (p. 247)
- Construction Management Engineering Technology (CMET) (p. 243)
- Cooperative Education (CED) (p. 250)
- Criminal Justice (CJS) (p. 250)

D

- Drama (DRM) (p. 253)

E

- Economics (ECN) (p. 254)
- Education (EDU) (p. 255)
- Electronics Engineering (EEN) (p. 255)
- Electronics Engineering Technology (EET) (p. 257)
- Elementary Education (EED) (p. 258)
- English (ENG) (p. 258)
- Exercise Science (EXS) (p. 260)

F

- Fashion Merchandising (FDM) (p. 262)
- Fine Arts (FIA) (p. 262)
- Food Science and Nutrition (FSN) (p. 265)
- French (FRN) (p. 265)

G

- General Studies (GST) (<https://catalog.nsu.edu/undergraduate/course-descriptions/gst/>)
- Geography (GEO) (p. 266)

H

- Health Education (HED) (p. 266)
- Health Professionals (HRP) (p. 266)
- Health Services Management (HSM) (p. 267)
- History (HIS) (p. 268)
- Humanities (HUM) (p. 270)

I

- Industrial Management Technology (IMT) (p. 270)
- Information Technology (ITE) (p. 271)
- Interdisciplinary Studies (INT) (<https://catalog.nsu.edu/undergraduate/course-descriptions/int/>)

J

- Journalism (JRN) (p. 271)

M

- Mass Communication (MCM) (p. 271)
- Mathematics (MTH) (p. 273)
- Military Science and Leadership (MSL) (p. 275)
- Music (MUS) (p. 276)

N

- Naval Science (NSC) (p. 282)
- Nursing (NUR) (p. 283)

O

- Optical Engineering (OEN) (p. 285)

P

- Physical Education (PED) (p. 286)
- Physics (PHY) (p. 289)
- Political Science (POS) (p. 290)
- Psychology (PSY) (p. 292)

R

- Religion (REL) (p. 294)

S

- Sciences (SCI) (p. 294)
- Secondary Education/School Leadership (SED) (p. 295)
- Social Work (SWK) (p. 295)
- Sociology (SOC) (p. 297)
- Spanish (SPN) (p. 299)
- Special Education (SPE) (p. 299)

T

- Technology Design (TMD) (p. 300)
- Tourism & Hospitality Management (THM) (p. 300)

U

- Urban Professionals (URP) (p. 301)

Course descriptions are notated with the following abbreviations and are listed on the following pages in alphabetical order.

Code	Subject
ACC	Accounting
ARA	Arabic
AST	Astronomy
BIO	Biology

BCT	Building Construction Technology
BUS	Business Administration
CHM	Chemistry
CHI	Chinese
CSD	Communication Sciences and Disorders
CIT	Computer Information Technology
CSC	Computer Science
CED	Cooperative Education
CJS	Criminal Justice
DSC	Decision Sciences
TMD	Design Technology Mechanical
DRM	Drama
ECN	Economics
EDU	Education
EEE	Electrical and Electronics Engineering
ELT	Electronics Technology
EED/ECE	Elementary Education
ECS	Elementary Special Education
ENG	English
EXS	Exercise Science
FDM	Fashion Design
FNC	Finance
FIA	Fine Arts
FSN	Food Science Nutrition
FRN	French
GST/UNI	General Studies
GEO	Geography
GRM	German
HED	Health Education
HIM	Health Information Management
HRP	Health Related Professions
HRS	Health Rehabilitation Services
HSM	Health Services Management
HIS	History
HUM	Humanities
IED	Industrial Education
IMT	Industrial Management Technology
INS	Intelligence Studies
INT	Interdisciplinary Studies
JPN	Japanese
JRN	Journalism
KOR	Korean
LAT	Latin
LOG	Logic
MGT	Management
MIS	Management Information Systems
ITM	Manufacturing Technology
MKG	Marketing
MCM	Mass Communications
MTH	Mathematics

MDT	Medical Technology
MSL	Military Science
MUS	Music
NSC	Naval Science
NUR	Nursing
OEN	Optical Engineering
PED	Physical Education
PHY	Physics
POS	Political Science
PSY	Psychology
REL	Religion
SED	Secondary Education and Leadership
SWK	Social Work
SOC	Sociology
SPN	Spanish
SPE	Special Education
SCM	Speech Communication
SEM	Spartan Seminar
SWA	Swahili
DRM	Theatre
HRM	Tourism and Hospitality Management
URP	Urban Planning

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

Accounting (ACC)

ACC 201 Principles of Financial Accounting (3 Credits)

Study of the fundamental principles and concepts of accounting used in the preparation of financial statements. Emphasis on service and merchandising companies.

ACC 201H Hnrs Principles of Financial Accounting (3 Credits)

Study of the fundamental principles and concepts of accounting used in the preparation of financial statements. Emphasis on service and merchandising companies.

ACC 202 Principles of Managerial Accounting (3 Credits)

Continuation of ACC 201. Emphasis on accounting for partnerships and corporations, long term debt, analysis of financial statements, statement of cash flows, and introductions to management accounting.

ACC 301 Intermediate Accounting I (3 Credits)

Rigorous study of the methodology and underlying theory of financial accounting. In-depth analysis of valuation alternatives and their effect on income measurement.

ACC 301H Honors Intermediate Accounting I (3 Credits)

Rigorous study of the methodology and underlying theory of financial accounting. In-depth analysis of valuation alternatives and their effect on income measurement.

ACC 302 Intermediate Accounting II (3 Credits)

Continuation of ACC 301. In-depth study of the accounting theory and principles surrounding the valuation of accounts in the financial statement.

ACC 315 Federal Income Tax I (3 Credits)

Study of the basic concepts of federal income taxation and related reporting requirements. Emphasis on the taxation of individuals.

ACC 316 Federal Income Tax II (3 Credits)

Study of the basic concepts of federal income taxation and related reporting requirements as they apply to partnerships and corporations. Emphasis on the formation, operation, dissolution, and reorganization of corporations.

ACC 330 Accounting Systems (3 Credits)

Study of the analysis, design, and implementation of computerized accounting systems. Emphasis on internal control and reporting. Design issues will be explored through an integrated computerized accounting system.

ACC 412 Advanced Accounting II (3 Credits)

Accounting for partnerships, home offices, branches, combinations, and consolidations. Emphasis on foreign currency translation and other aspects of international accounting.

ACC 412H Honors Advanced Accounting II (3 Credits)

Accounting for partnerships, home offices, branches, combinations, and consolidations. Emphasis on foreign currency translation and other aspects of international accounting.

ACC 413 Cost Accounting (3 Credits)

Study of cost accounting systems, product costing, and inventory valuation. Emphasis on the use of accounting data as an aid in managerial planning and control.

ACC 414 Auditing (3 Credits)

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 Governmental/Not-For-Profit Accounting (3 Credits)

Theory and application of accounting within governmental and not-for-profit organizations including fund allocations.

Astronomy (AST)

AST 201 General Astronomy (3 Credits)

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, multimedia presentations and exercises.

AST 301 Methods in Observational Astronomy (3 Credits)

This course teaches observational techniques of optical astronomy at an intermediate level. 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, and planets. Astrography, photometry, and spectrography using CCD cameras.

AST 303 Introduction to Astrophysics (3 Credits)

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 into introductory astrophysics topics. Instructional methods will include lectures, multimedia presentations and exercises.

AST 401 Stellar Astrophysics (3 Credits)

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.

Biology (BIO)

BIO 100 Biological Science (3 Credits)

Study of the general principles and problems of biology, with special emphasis on the human organism, including anatomy, physiology, growth, reproduction, and inheritance. The evolution and diversity among living things are discussed from an ecological perspective.

BIO 100H Honors Biological Science (3 Credits)

Study of the general principles and problems of biology, with special emphasis on the human organism, including anatomy, physiology, growth, reproduction, and inheritance. The evolution and diversity among living things are discussed from an ecological perspective.

BIO 100L Biological Science Lab (1 Credits)

Practical approach to understanding the nature of science. The exercises on cells, tissues, and organ systems are designed to help students understand the human systems.

BIO 105 Human Biology (3 Credits)

Survey of the structure and function of the human body and the human life cycle with particular focus on reproduction, growth, and development.

BIO 105L Human Biology Lab (1 Credits)

Laboratory includes dissection of preserved animals/structures, models and microscopic observations, slide/videotapes, computer-simulated dissections and experiments, and hands-on experiments.

BIO 110 General Biology (3 Credits)

Survey of basic concepts and principles with emphasis at the molecular and cellular levels of biological systems. Includes contemporary genetics, metabolism, and organ systems of representative plants and animals.

BIO 110H Honors General Biology (3 Credits)

Survey of basic concepts and principles with emphasis at the molecular and cellular levels of biological systems. Includes contemporary genetics, metabolism, and organ systems of representative plants and animals.

BIO 110L General Biology Laboratory (1 Credits)

Survey of basic concepts and principles with emphasis at the molecular and cellular levels of biological systems. Includes contemporary genetics, metabolism, and organ systems of representative plants and animals.

BIO 111 General Biology II (3 Credits)

The course is a comprehensive survey of basic biological concepts and principles with emphasis at the organismal level of biological systems. While kingdom organisms are included, plant/animal structure and function, human anatomy/physiology (human organ systems), and ecosystems are also emphasized.

BIO 111L General Biology II Laboratory (1 Credits)

The second part of an introductory laboratory course for science majors, designed as a hands-on study of the organismal level of biological systems. Experimental topics in the course include the structure and function of prokaryotes, plants, and animals. The scientific method is emphasized as students collect, analyze, and discuss data relevance to each topic.

BIO 163 Microbiology for the Health Sciences (3 Credits)

General survey of microorganisms that cause human diseases. The mechanisms of body defense and immunity to infectious agents are discussed.

BIO 163L Micro for Health Sciences Laboratory (1 Credits)

Study of culture methods, microscopic sterilization, and aseptic techniques.

BIO 165 Human Anatomy and Physiology I (3 Credits)

One-year course consisting of an integrated study of the structure and function of the human body. BIO 165 is a lecture series on cells through the four major tissues.

BIO 165L Human Anatomy & Physiology I Lab (1 Credits)

Emphasis on teaching aids such as computed managed instructions and hands-on experience with animal tissues.

BIO 166 Human Anatomy and Physiology II (3 Credits)

One-year course consisting of an integrated study of the structure and function of the human body. BIO 166 presents lecture topics on the structure and function of organs and organ systems. (Must be taken in sequence with BIO 165.)

BIO 166L Human Anatomy & Physiology II Lab (1 Credits)

Emphasis on teaching aids such as computed managed instructions and hands-on experience with animal tissues.

BIO 260 Integrative Zoology (3 Credits)

Biological concepts of animal life, including morphology, taxonomy, life histories, reproduction and distribution.

BIO 260L Integrative Zoology Laboratory (1 Credits)

Biological concepts of animal life, including morphology, taxonomy, life histories, reproduction, and distribution.

BIO 261 General Botany (3 Credits)

Introductory study of the basic principles of botany, including comparative studies on morphology, physiology, genetics, ecology, and economic uses of major plants.

BIO 261L General Botany Laboratory (1 Credits)

Introductory study of the basic principles of botany, including comparative studies on morphology, physiology, genetics, ecology, and economic uses of major plants.

BIO 263 Vertebrate Embryology (3 Credits)

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 Vertebrate Embryology Lab (1 Credits)

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 264 Concepts of Developmental Biology (3 Credits)

Study of the principles of development exemplified by experimental studies in model organisms, including invertebrates, vertebrates, and plants. Examines common themes pre-birth, and continued development and regeneration post-birth.

BIO 264L Concepts of Developmental Biology Lab (1 Credits)

Laboratory study of the principles of development, using experimental studies in model organisms, including invertebrates, vertebrates, and plants, to examine embryonic, post-embryonic and regenerative processes.

BIO 270 Comparative Vertebrate Anatomy and Physiology (3 Credits)

Study of the classification, morphology, and anatomy of vertebrates, including the functions of their organs and organ systems.

BIO 270L Comparative Anatomy & Physiology Lab (1 Credits)

Study of the classification, morphology, and anatomy of vertebrates, including the functions of their organs and organ systems.

BIO 271 Ecology (3 Credits)

Composition and distribution of biotic communities, emphasizing interrelationships of organisms and their physical environment with application to current environmental problems.

BIO 271L Ecology Laboratory (1 Credits)

Composition and distribution of biotic communities emphasizing interrelationships of organisms and their physical environment with application to current environmental problems.

BIO 272 Human Anatomy (3 Credits)

Study of the basic structure of organs and organ systems of the body.

BIO 272H Honors Human Anatomy (3 Credits)

Study of the basic structure of organs and organ systems of the body.

BIO 272L Human Anatomy Laboratory (1 Credits)

Study of the basic structure of organs and organ systems of the body.

BIO 278 Cell Biology (3 Credits)

Study of intracellular mechanisms and the influence of such processes on the cell and its extracellular environment.

BIO 278H Honors Cell Biology (3 Credits)

Study of intracellular mechanisms and the influence of such processes on the cell and its extracellular environment.

BIO 278L Cell Biology Laboratory (1 Credits)

Study of intracellular mechanisms and the influence of such processes on the cell and its extracellular environment.

BIO 310 General Microbiology (3 Credits)

Introduction to 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; and their economic importance.

BIO 310L General Microbiology Laboratory (1 Credits)

Introduction to 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; and their economic importance.

BIO 320 Pathophysiology (3 Credits)

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 350 Parasitology (3 Credits)

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 Parasitology Laboratory (1 Credits)

Inquiry-based application of the clinical and pathological implications of inherent relationships established between symbionts.

BIO 351 Principles of Genetics (3 Credits)

Introductory course dealing with the principles of heredity and variation in plants and animals, including man.

BIO 351L Principles of Genetics Laboratory (1 Credits)

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 Histology & Micro Technique (3 Credits)

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 Histology & Micro Technique Laboratory (1 Credits)

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 Seminar & Colloquium in Biology (1 Credits)

Consideration of current research and development in biology, including reviews, reports, and discussions of investigations reported in scientific journals.

BIO 459 General Physiology (3 Credits)

Discusses fundamental principles and properties of physiological processes common to animals.

BIO 459L General Physiology Laboratory (1 Credits)

Demonstrates fundamental principles and properties of physiological processes common to animals.

BIO 461 Plant Physiology (4 Credits)

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 461H Honors Plant Physiology (4 Credits)

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 Plant Physiology Laboratory (0 Credits)

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 Biochemistry (3 Credits)

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; cellular basis of hormone action; and biochemical aspects of synthesis.

BIO 469L Biochemistry Laboratory (1 Credits)

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 474 Molecular Biology (3 Credits)

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.

BIO 474L Molecular Biology Laboratory (2 Credits)

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 485 Immunology (3 Credits)

General properties of immune responses; cells and tissues of immune system; lymphocyte activation and specificity; effector mechanisms; immunity to microbes; immunodeficiency and AIDS; autoimmune diseases; transplantation.

BIO 495 Biostatistics (3 Credits)

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.

BIO 495H Honors Biostatistics (3 Credits)

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.

BIO 497 Introduction to Research (2 Credits)

Introduction to independent experimental work under the guidance of faculty members. Provisions for honors and undergraduate research participation projects and investigations.

BIO 499 Tissue and Cell Culture (4 Credits)

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.

Construction Management Engineering Technology (CMET)

CMET 140 Introduction to Construction Management (1 Credits)

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 the objective to enhance public speaking and presentation skills. The course will also have guest speakers from industry to give students a good understanding of current status of industry and how to prepare for a career in construction.

CMET 162 Materials of Construction (3 Credits)

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 Building Codes and Specifications (3 Credits)

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 Methods of Building Construction I (3 Credits)

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 Construction Methods Lab (1 Credits)

An introduction to construction methods and their applications. This hands-on course 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 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 subcontractors they will manage at the site.

CMET 263 Fundamentals of Surveying (3 Credits)

Principles and practices of using basic surveying instruments, error analysis, and note keeping.

CMET 263L Fundamentals of Surveying Lab (1 Credits)

This course is designed to teach the basic fundamentals of surveying with in-depth hands-on experience using land-surveying equipment. It is designed to prepare students to work as a member of surveying field party, including the position of instrument man. It teaches basic fieldwork and the office procedures required in the construction industry.

CMET 264 Intermediate Surveying (3 Credits)

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 Architectural Details (3 Credits)

A comprehensive study of building components for light residential construction. 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 Architectural Drafting (3 Credits)

Study of building construction drawings for residential building and light commercial construction.

CMET 363 Methods of Building Construction II (3 Credits)

Comprehensive study of building construction techniques in the construction industry. Emphasis on residential and commercial type structures. Field trips are included.

CMET 364 Steel Structures (3 Credits)

Theory and practice in the design and fabrication of structural steel in conformance with current codes and practices.

CMET 370 Cost Estimates and Quality Control I (3 Credits)

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 376 Soil Mechanics (3 Credits)

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 462 Problem Analysis and Planning (3 Credits)

Consideration given to individual problem solving and analysis in specialized construction areas.

CMET 464 Organization/Superv of Construction (3 Credits)

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 Construction Management Capstone (3 Credits)

Comprehensive study of construction documents for group project, including preparation of working drawings, specifications, scheduling and cost estimates for project.

Chemistry (CHM)

CHM 110 Basic Concepts in Chemistry (3 Credits)

Introduction to the basic concepts necessary for an understanding of chemistry. These fundamental concepts are the foundation for this course and are more fully developed in later chemistry courses. Designed for students with no chemistry background.

CHM 110L Basic Concepts in Chemistry Laboratory (1 Credits)

Introduction to chemistry laboratory techniques and skills required for successful chemistry experimental work. Co-enrollment in Basic Concepts in Chemistry, CHM 110, is required. Restricted to chemistry majors.

CHM 210 General Chemistry for Engineers (3 Credits)

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 required.

CHM 215 Chemistry I (3 Credits)

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 Chemistry I Laboratory (1 Credits)

Introduction to laboratory techniques in chemistry. For the Health Science/Exercise Science Majors.

CHM 221 General Chemistry I (3 Credits)

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 is required. Algebra proficiency is required.

CHM 221H General Chemistry I Honors (3 Credits)

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 is required. Good understanding of algebra desirable.

CHM 221L General Chemistry I Laboratory (1 Credits)

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 222 General Chemistry II (3 Credits)

Emphasis on theoretical principles necessary for the understanding of the nature of matter and the physical and chemical changes which it undergoes. Completion of General Chemistry I is required.

CHM 222H General Chemistry II Honors (3 Credits)

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 is not required but desirable. Good understanding of algebra is desirable. Must be taken in sequence.

CHM 222L General Chemistry II Laboratory (1 Credits)

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 223A General Chemistry I (4 Credits)

General Chemistry for chemistry majors, emphasizing theoretical principles necessary for understanding the nature of matter and the changes it undergoes. High school chemistry or its equivalent is desirable. Good algebra skills are required because of the quantitative nature of much of the work. Includes problem-solving practice and inclusion of special chemistry topics.

CHM 224 General Chemistry II (4 Credits)

General Chemistry for chemistry majors,, emphasizing theoretical principles necessary, for understanding the nature of matter and the , changes it undergoes. High school chemistry, or its equivalent is desirable. Good algebra , skills are required because of the quantitative, nature of much of the work. Includes, problem-solving practice and inclusion of special , chemistry topics.

CHM 224A General Chemistry II (4 Credits)

General Chemistry for chemistry majors, emphasizing theoretical principles necessary for understanding the nature of matter and the changes it undergoes. High school chemistry or its equivalent is desirable. Good algebra skills are required because of the quantitative nature of much of the work. Includes problem-solving practice and inclusion of special chemistry topics.

CHM 231 General Chemistry I (3 Credits)

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 231H General Chemistry I Honors (3 Credits)

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 General Chemistry Applications I (1 Credits)

General Chemistry Applications is a two-semester course sequence for chemistry majors. It aims to develop students' 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 General Chemistry II (3 Credits)

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 232H General Chemistry II Honors (3 Credits)

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 General Chemistry Applications II (1 Credits)

General Chemistry Applications is a two-semester course sequence for chemistry majors. It aims to develop students' 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 Organic Chemistry I (3 Credits)

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 321 Organic Chemistry I (3 Credits)

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 Organic Chemistry I Laboratory (2 Credits)

Laboratory course designed to teach modern laboratory procedures and techniques and to illustrate the reactions and theoretical material presented in CHM 321 and CHM 322. Must be taken in sequence.

CHM 322 Organic Chemistry II (3 Credits)

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 322L Organic Chemistry II Laboratory (2 Credits)

Laboratory course designed to teach modern laboratory procedures and techniques and to illustrate the reactions and theoretical material presented in CHM 321 and CHM 322. Must be taken in sequence.

CHM 323L Synthesis/Analysis in Organic Chem Lab (2 Credits)

Project-based course providing research-level laboratory experience in modern organic chemistry, synthesis and analysis and the development of literature review and scientific presentation skills. For chemistry majors (others by permission of instructor).

CHM 331 Analytical Chemistry I (3 Credits)

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 Analytical Chemistry I Laboratory (2 Credits)

Practice of volumetric and gravimetric methods of analysis, including the use of instruments such as pH meters and electro analyzers.

CHM 332 Analytical Chemistry II (3 Credits)

Study of instrumental methods of analysis, including electrochemical, spectroscopic, chromatographic, thermal, and kinetic methods.

CHM 332L Analytical Chemistry II Laboratory (2 Credits)

Methods of analysis employing electrochemical techniques, spectrophotometer, chromatograph, microprocessor analyzers, and thermal analyzers.

CHM 345 Math Methods/Logic for Physical Science (3 Credits)

Application of differential equations, vector analysis, determinants and functions to problems encountered in the physical sciences. Emphasis on practical problem-solving skills.

CHM 351 Chemistry Seminar (1 Credits)

Presentation and discussion of current topics in all areas of chemistry. Required of junior chemistry majors.

CHM 351H Honors Chemistry Seminar (1 Credits)

Presentation and discussion of current topics in all areas of chemistry. Required of junior chemistry majors.

CHM 352 Chemistry Seminar (1 Credits)

Presentation and discussion of current topics in all areas of chemistry. Required of junior chemistry majors.

CHM 361 Physical Chemistry I (3 Credits)

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 change accompanying physical and chemical changes. Must be taken in sequence.

CHM 362 Physical Chemistry II (3 Credits)

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 change accompanying physical and chemical changes. Must be taken in sequence.

CHM 363L Physical Chemistry Laboratory (2 Credits)

Typical physicochemical measurements which seek to refine computational skills and experimental techniques. Instrumentation associated with spectroscopy, kinetics, and macromolecular characterization is regularly employed.

CHM 370 Industrial Chmstry (3 Credits)

Seminars supervised by visiting industrial chemists as well as the departmental faculty, including internship for cooperative training at an industrial chemical company with co-op assignment opportunities.

CHM 397 Introduction to Research (1 Credits)

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 398 Introduction to Research (1 Credits)

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 Biochemistry I (3 Credits)

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 Biochemistry I Laboratory (2 Credits)

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, and spectroscopic techniques.

CHM 432 Biochemistry II (3 Credits)

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 432L Biochemistry II Laboratory (2 Credits)

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, and spectroscopic techniques.

CHM 451 Chemistry Seminar I (1 Credits)

Presentation and discussion of current topics in all areas of chemistry. Required of all senior chemistry majors.

CHM 452 Chemistry Seminar II (1 Credits)

Presentation and discussion of current topics in all areas of chemistry. Required of all senior chemistry majors.

CHM 473 Advanced Inorganic Chemistry (3 Credits)

Study of chemical bonding, molecular structure, coordination compounds, and descriptive inorganic chemistry.

CHM 473H Honors Advanced Inorganic Chemistry (3 Credits)

Study of chemical bonding, molecular structure, coordination compounds, and descriptive inorganic chemistry.

CHM 474 Applied Inorganic Chemistry (3 Credits)

Introduction to the synthesis, isolation, and characterization of inorganic and organometallic compounds. Students will conduct basic synthetic laboratory procedures and utilize a variety of analytical characterization techniques. Students will complete a series of structured, interconnected laboratory experiments derived from current literature.

CHM 474H Honors Applied Inorganic Chemistry (3 Credits)

Introduction to the synthesis, isolation, and characterization of inorganic and organometallic compounds. Students will conduct basic synthetic lab procedures and utilize a variety of analytical characterization techniques. Students will complete a series of structured, interconnected lab experiments derived from current literature. Honors students will complete a literature review and present a seminar.

CHM 481 Special Topics in Chemistry (3 Credits)

Emphasis on modular topics including modern chemical bonding, stereochemistry, spectroscopy, ionization equilibrium, macromolecule, acid-base chemistry, organic and inorganic nomenclature, kinetics, and advanced analytical techniques.

CHM 481B Special Topics: Atom/Molec Spectroscopy (3 Credits)

Emphasis on modular topics including modern chemical bonding, stereochemistry, spectroscopy, ionization equilibrium, macromolecule, acid-base chemistry, organic and inorganic nomenclature, kinetics, and advanced analytical techniques.

CHM 481C Special Topics: Organic Optoelectro Mat (3 Credits)

Emphasis on modular topics including modern chemical bonding, stereochemistry, spectroscopy, ionization equilibrium, macromolecule, acid-base chemistry, organic and inorganic nomenclature, kinetics, and advanced analytical techniques.

CHM 482 Special Topics in Chemistry (3 Credits)

Emphasis on modular topics including modern chemical bonding, stereochemistry, spectroscopy, ionization equilibrium, macromolecule, acid-base chemistry, organic and inorganic nomenclature, kinetics, and advanced analytical techniques.

CHM 497 Introduction to Research (1 Credits)

Investigation of current problems in chemistry supervised by one of the Chemistry Department faculty (12 hours per week).

CHM 498 Introduction to Research (1 Credits)

Investigation of current problems in chemistry supervised by one of the Chemistry Department faculty (12 hours per week).

Communication Sciences and Disorder (CSD)

Computer Literacy - Music (CLM)

CLM 165 Computer Literacy for Musicians (3 Credits)

This course is intended to familiarize music majors with the basics of computer operating systems (with an emphasis on Mac OS), fundamental terms, concepts, and skills needed for computer literacy. Fundamentals of the Internet and website design will be covered. Music engraving in Finale 25 will receive a special emphasis along with MIDI sequencing and digital audio using Apple's Logic Pro and Garage Band.

Computer Engineering Technology (CET)

CET 304 Digital System Design (3 Credits)

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 Digital Systems Design Laboratory (1 Credits)

Practical experience in building and testing digital systems and methods with emphasis on programmable logic devices, programming and introduction to microcontrollers.

CET 305 Computer Organization (3 Credits)

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 Computer Organization Laboratory (1 Credits)

This lab complements CET-305 Computer Organization. It provides hands-on experience to understand how various computer system components interact in hardware and software. Topics include system components, peripheral devices, storage, system implementation, file management, and system management.

CET 315 Microprocessors (3 Credits)

This course introduces students to small microprocessor-based systems, emphasizing embedded system hardware and software design. Topics will include microprocessor architecture and structure, with an overview of 8-, 16-, and 32-bit systems, assembly language programming, and the use of high-level languages.

CET 315L Microprocessor Laboratory (1 Credits)

This lab complements CET 315 Microprocessors. It provides hands-on experience to interpret, analyze, verify, and troubleshoot fundamental microprocessor circuits and programs using appropriate techniques and tests.

CET 336 Computer Networks Technology (3 Credits)

Introduction to the administration of computer networks with emphasis on management of user's workstation and other system resources, including the Internet and intranets.

CET 336L Computer Networks Technology I Lab (1 Credits)

This course is the laboratory component of CET 336 Computer Networks I lecture. Students will perform laboratory exercises on such topics as cabling, programming network devices and setting up simple networks.

CET 340 Soil and Foundations (3 Credits)

Contact the department for specific course information

CET 432 Computer Interfaces/Peripheral Devices (3 Credits)

Study of computer interfaces and peripheral devices, the programming, operation, and interfacing of the microprocessor, and the programming/operation of the numeric co-processor, which provide an understanding of applications such as control systems, video graphics, and computer-aided design (CAD) with emphasis on The Advanced Intel Microprocessor Family.

CET 432L Computer Interfaces Laboratory (1 Credits)

Course consists of individual or small group projects of building a Microprocessor-controlled robot.

CET 436 Computer Networks Technology II (3 Credits)

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.

CET 436L Computer Networks Technology II Lab (1 Credits)

This course is the laboratory component for CET 436 lecture. The student will perform laboratory exercises related to computer network design, development and troubleshooting.

Computer Science (CSC)

CSC 101 Intro to Computer Science Profession (1 Credits)

An introduction to career opportunities for computer scientists and strategies to improve academic performance in the discipline. Course topics include lectures by computer science professionals and seminars on active coping, collaborative learning, and the development of inclusive relationships.

CSC 150 Computer Literacy (3 Credits)

This is an introductory course to prepare students for the technological demands of the workforce. Students gain hands-on experience using Internet applications and current word processing, spreadsheet, and presentation applications.

CSC 150H Honors Computer Literacy (3 Credits)

This is an introductory course to prepare students for the technological demands of the workforce. Students gain hands-on experience using Internet applications and current word processing, spreadsheet, and presentation applications.

CSC 169 Introduction to Computer Science (3 Credits)

Study of the fundamental concepts of the discipline with emphasis on information representation, algorithms and problem solving, computer hardware and software, data representation and the impact of computers in society.

CSC 170 Computer Programming I (3 Credits)

Introduction to programming and problem solving in an object-oriented language with emphasis on basic programming constructs, arrays, debugging, software engineering practices, and the fundamentals of file handling.

CSC 170L Computer Programming I Laboratory (1 Credits)

The focus of this course is to provide further support in learning C++ programming language syntax, semantics, and developing students' abilities to apply the knowledge in transforming algorithms into C++ code. This course is a supplementary course to CSC 170. It is structured as a closed computer laboratory where students complete specific programming tasks within a fixed time.

CSC 200 Advanced Computer Concepts (3 Credits)

This advanced computer course equips students with the necessary skills to enhance critical thinking, information literacy, and problem-solving abilities. The course primarily focuses on utilizing email, wireless networking, web searching, internet security, web page creation, and presentation tools.

CSC 260 Computer Programming II (3 Credits)

Introduction to data structures, algorithms and building objects. Topics include linked lists, stacks and queues, recursion, and binary trees.

CSC 260L Computer Programming II Laboratory (1 Credits)

Supplementary course to CSC 260 structured as a closed computer laboratory to complete specific programming tasks within a fixed time.

CSC 268 Computer Organization (3 Credits)

Fundamentals of the architecture and operation of modern computers. Computer arithmetic: number systems, number conversions including IEEE binary floating point number standard. Basic computer logic gates: combinational and 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 275 Fundamentals of Cybersecurity (3 Credits)

This course is designed for IT and computer 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. Topics include cryptography, program security, operating systems security, database security, network security, security administration, computer ethics, and legal issues.

CSC 290 Survey of Video Gaming (3 Credits)

This course provides an overview of computer and video games, including evaluation and analysis of the cultural, historical, literary, psychological, and technological impact of games on society, education, and industry. Critical play is an important aspect of this course. Students conduct surveys of different game genres and study design, implementation, and testing issues that confront game developers. The course explores interactivity, learning, and storytelling as it relates to games.

CSC 292 Unix and C Programming (3 Credits)

An introduction to C programming in a UNIX environment. Course content includes the UNIX command interpreter Shell; the use of Shell scripts to create powerful tools and applications; and the development of application and systems programs using C.

CSC 295 Java Applications Programming (3 Credits)

Introduction to the core JAVA language with emphasis on application 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. The prerequisite course is Computer Programming II or equivalent knowledge.

CSC 312 Topics in Information Technology (3 Credits)

Advanced Information Technology topics that are 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 the Department Head.

CSC 313 Network Administration (3 Credits)

This course provides essential knowledge and skills required of network administrators. It includes an overview of TCP/IP protocols and how to properly configure and manage network services based on the protocols (including DNS, DHCP, AD/LDAP directory services, print and file servers, NFS/NIS, and routing services). It also has practical lab components for students to learn how to set up, configure, troubleshoot, and administer the network services in both Windows and Linux environments.

CSC 314 Advanced Internet Programming (3 Credits)

A second Internet programming course concentrating on advanced Internet application development. Creation of relatively sophisticated web pages and applications that allow interactions between web page users and the web page as well as network programming, JSP, JDBC, XML processing are the focus of the course. Different Internet programming language and tools will also be included.

CSC 316 Introduction to Cloud Computing (3 Credits)

Introduction to core concepts in cloud computing. Students gain knowledge required for understanding cloud computing and becoming cloud practitioners. Concepts include essential characteristics of cloud computing, its history, and the business and emerging technology use cases enabled by cloud computing. Students are introduced to some of the current prominent service providers, the services they offer, and review of some case studies of cloud computing across the industry.

CSC 360 Interface Design (3 Credits)

An introduction to the techniques used for designing, implementing, and testing human-computer interfaces. Topics include design methods for creating user centered interfaces, interface implementation, techniques and tools for event driven programming, and interface testing and evaluation.

CSC 361 Survey of Programming Languages (3 Credits)

This course prepares students to survey, analyze, and evaluate programming languages such as C, C++, Python, Java, Prolog, and Lisp. Topics include data structures and storage, control structures, execution environment, input/output, and the syntax and semantics of the languages.

CSC 369 Intro to 3D Animation & Visual Effect (3 Credits)

This course is an applied introduction to the techniques used for modeling, animating, texturing, lighting, rendering, and creating 3-D content for games, animation, and visualizations in a team environment.

CSC 372 Data Structures (3 Credits)

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 Algorithms Design and Analysis (3 Credits)

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 automated solutions to argue the correctness of implementations and to recognize opportunities to attain greater efficiencies versus naive approaches.

CSC 380 Software Engineering (3 Credits)

This course is an introduction to the design of software projects and the phases of the software development lifecycle (system requirements and analysis, design, implementation, testing, and maintenance). Emphasis is placed on the development of artifacts (documents and code) for software projects.

CSC 390 Technical Strategies in Game Design (3 Credits)

This course introduces students to the basic concepts of Game User Interface Design, process flowcharts, storytelling, storyboarding, and the basics of project management with respect to game design.

CSC 395 Mobile App Development Using Android (3 Credits)

This course provides basic concepts necessary to understand, design and develop Android mobile applications. Students will learn the structure, services, and activities of Android applications by using the Android, Software Development Kit (SDK), the Java programming language, and Android Studio Integrated Development Environment (IDE). Students will be able to build a complete and publishable Android application that includes most of the key concepts presented in the course.

CSC 411 Web Server Administration (3 Credits)

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 on this course are Web management, content management, and technical management.

CSC 420 Database Principles and Design (3 Credits)

An introductory course emphasizing the basic concepts and principles of database systems. Topics include an introduction to database systems and databases, different database system models, basic system and language support for database systems, relational modes, relational algebra, introduction to relational database design as well as overview of common database system issues.

CSC 422 Database Implementation (3 Credits)

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 Data Communications (3 Credits)

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 Wireless Internet of Things (3 Credits)

The Internet of Things (IoT) is a platform where smart devices sense the environment, act and respond to needs closely or remotely through actuators. The course encompasses wireless data networking, embedded systems, and electronics. It further examines concepts of IoT, wireless technologies for IoT, cloud computing services, and object-oriented programming. Topics include data analytics for IoT, security and privacy, and IoT markets emphasizing hands-on experience with smart applications.

CSC 435 Computer Security I (3 Credits)

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 Computer Network Defense (3 Credits)

Solid foundation in network defense fundamentals covering conceptual and practical aspects of network security. Reviews threats to network security, defense-in-depth strategy and technologies, and network security policy design and implementation. Explores three key network defense technologies: firewalls, intrusion detection and prevention systems, and virtual private networks. Labs provide hands-on learning of network defense techniques to protect networks and communications.

CSC 449 Cryptography and Network Security (3 Credits)

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 464 Operating Systems (3 Credits)

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 Advanced Computer Topics I (3 Credits)

The Advanced Computer Topics courses are not generally covered in the curriculum. They are designed as a Computer Science elective, not as a replacement for any specifically required course.

CSC 467 Advanced Computer Topics II (3 Credits)

The Advanced Computer Topics courses are not generally covered in the curriculum. They are designed as a Computer Science elective, not as a replacement for any specifically required course.

CSC 468 Computer Architecture (3 Credits)

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 Artificial Intelligence (3 Credits)

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 agame Design and Development (3 Credits)

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 3D Game Programming (3 Credits)

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.

CSC 476 Advanced Computer Topics III (3 Credits)

The Advanced Computer Topics courses are not generally covered in the curriculum. They are designed as a Computer Science elective, not as a replacement for any specifically required course.

CSC 477 Advanced Computer Topics IV (3 Credits)

The Advanced Computer Topics courses are not generally covered in the curriculum. They are designed as a Computer Science elective, not as a replacement for any specifically required course.

CSC 485 Software Quality Assurance and Testing (3 Credits)

This course is an introduction to concepts and techniques for testing and modifying software applications. Emphasis is placed on quantitative and practical software methods 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 Software Project Management (3 Credits)

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 software products and project management body of knowledge (PMBOK). The main knowledge areas are covered including scope, time, cost, team, risk, and communication management with focus on software development. Agile Management (e.g., SCRUM) and other emerging practices will be covered.

CSC 487 Engineering Secure Software Systems (3 Credits)

This course explores the foundations of software security considering important software vulnerabilities.

CSC 488 Distributed Software Systems (3 Credits)

This course covers the use of large-scale computing platforms, including desktop multicore processors, SMPs, message passing platforms, and virtualized cloud computing environments. It consists of topics on parallel/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 490 Game Design Capstone (3 Credits)

This course represents the capstone experience of the Game Design and Development minor and serves to prepare students to pursue further game education or possibly enter the game design and development workforce. Students work to form teams (e.g., 3-5 members) to design, develop, and publish an original video or mobile game. Final projects are judged by a curated group of faculty and industry professionals.

CSC 492 Independent Study (3 Credits)

Supervised independent project designed to explore a single topic in a one-to-one learning relationship with a faculty member.

CSC 494 Digital Forensics (3 Credits)

This course focuses on the fundamentals of Digital and Network Forensics introducing students to the applicable laws, ethical responsibilities, and the technical skills required of digital forensics professionals. Students gain knowledge of network memory, hard drive analysis, criminal behavior, chain of custody, data acquisition, proper handling of evidence, image and file analysis, digital forensic reporting, and courtroom preparation.

CSC 498 Computer Science Seminar I (2 Credits)

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 Computer Science Seminar II (2 Credits)

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 350 Cooperative Education (3 Credits)

Required for all students who have secured a cooperative work assignment on their own, through the department, or through the Cooperative Education office. The student must also register for this course and contact 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 Introduction to Criminal Justice (3 Credits)

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 Juvenile Delinquency (3 Credits)

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 Law Enforcement (3 Credits)

Focuses on the police as an official societal agency of social control. Provides an understanding of the role of the police in reducing and promoting crime. Surveys of the organization of police departments as well as the recruitment and socialization of police officers.

CJS 230 Introduction to Corrections (3 Credits)

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 230H Honors Introduction to Corrections (3 Credits)

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 Criminology (3 Credits)

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 American Ct Systems Honors (3 Credits)

Introduction to the operation of the judicial court system with emphasis on the police, agents of the FBI, 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 313H American Ct Systems Honors (3 Credits)

Introduction to the operation of the judicial court system with emphasis on the police, agents of the FBI, 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 Sociology of Drug Usage (3 Credits)

Examines facts and theories of drug usage in different cultures, focuses primary attention on contemporary U.S. Includes medical aspects of different kinds of drugs and psychological 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 Cybercrime (3 Credits)

Introduces students to the criminal justice aspects of cybersecurity. Examines theoretical frameworks and methods of investigation. This 300-level Cybercrime course offers students studying criminal justice an understanding of the new frontier in which cyber-victims and cyber-perpetrators exist.

CJS 492 Topics in Criminal Justice (3 Credits)

Examines the gender differences in criminal behavior, victimization, and criminal justice processing, emphasizing the unique experiences of racial minorities in these areas.

CJS 492L Special Topic: Women Crim Just System (3 Credits)

Research development activities for graduate students.

CJS 492M Special Topic: Environ Crime & Justice (3 Credits)

Provides a critical analysis of environmental crime and justice. A sociological understanding of crime provides the context for examining the issues of environmental equity and implications for the criminal justice system.

CJS 571 Youth Crime, and the School (3 Credits)

The role of school experiences in the etiology of juvenile crime has been debated for a long time. Recent incidents of violence occurring on school grounds have increased concern for the safety of students. The response of schools to violence, drug abuse, and other crimes will be examined to identify programs that have been successful in reducing youth crime.

CJS 575 Legal Aspects of Juvenile Justice (3 Credits)

Juvenile justice has made a distinction between criminal and status offenses. Courts have recognized this distinction in specifying the rights of juveniles when violating cultural norms. The course examines legal policies affecting youth including their transference to criminal courts. Procedures in the United States are compared to those in other societies.

CJS 590 Readings in Criminal Justice (3 Credits)

This is an intensive and directed reading course in criminal justice.

CJS 592F Sp Top: Dis Min Ctct & Ctrv Iss Juv Just (3 Credits)

See department for specific course information.

CJS 592L Special Topics: Women in the Criminal Justice System (3 Credits)

Contact the department for specific course information.

CJS 592M Spec Tpcs: Environ Crime & Justice (3 Credits)

See department for specific course information.

CJS 601 Systems of Criminal Justice (3 Credits)

This course examines the traditional model of criminal justice in the United States by comparing it to criminal justice systems of selected other countries. The course also introduces a restorative justice model as an alternative to the adversarial system currently followed by most jurisdictions.

CJS 607 Minorities in Criminal Justice (3 Credits)

Although minorities are disproportionately over-represented in arrests, conviction, and incarcerations, they are disproportionately under-represented among criminal justice practitioners. This course examines theories advanced to account for and methods offered to alter these figures.

CJS 610 Theories of Crime and Delinquency (3 Credits)

A number of theories of crime and delinquency have been developed from a variety of perspectives including biological, psychological, sociological, feminist, and conflict. This course addresses the major ideas offered to explain criminal behavior. Similarities and differences between the theories are noted. Criteria for evaluating the usefulness of a theory are identified.

CJS 611 Admin of Criminal Justice Organizations (3 Credits)

This course rests upon the premise that criminal justice agencies need to apply sound principles of organizational management in order to be efficient. The course studies how corporate and public administration techniques may be applied to criminal justice agencies.

CJS 612 Strategic Planning for Criminal Justice (3 Credits)

Increasingly, criminal justice practitioners recognize the importance of planning and preparing for criminal situations before they occur. This course examines ways to use current information to plan for the future in structuring organizations, setting priorities, and identifying resources needed to be more effective.

CJS 613 Community Policing (3 Credits)

Recently, police departments have adopted techniques to bring community citizens and police officers closer together so that by working together crime may be reduced. This course compares different models of community policing and techniques for evaluating their impact.

CJS 616 Restorative Justice (3 Credits)

Restorative justice recognizes that any response to crime should bring victims and offenders to reconciliation in which a sense of community is re-established. A number of theoretical perspectives exist within this broad framework. The course introduces techniques of mediation and other methods of restorative justice.

CJS 618 Legal Issues in Cj Management (3 Credits)

This course focuses on the examination and analysis of legal implications and challenges of criminal justice management decisions, policies, programs, and the roles of the criminal justice manager.

CJS 644 Research Methods in Criminal Justice (3 Credits)

Information about criminal behavior shapes theories and responses to crime. Therefore, it is important to develop valid and reliable data which can be used to understand criminal justice issues. Standards for obtaining and evaluating empirical data are articulated in this course.

CJS 645 Quantitative Analysis in Cj (3 Credits)

Quantitative data are the backbones of theory testing and organizational decision making. This course identifies statistical databases and introduces analytical techniques to produce meaningful information. Skills with computer applications are developed.

CJS 650 Criminal Justice Policy Analysis (3 Credits)

Scientific based facts are essential for sound criminal justice policies. At the same time, such policies reflect political forces in society. This course examines procedures for analyzing how policies are enacted and implemented by focusing on specific case studies.

CJS 651 Criminal Justice Ethics (3 Credits)

Any system of justice must acknowledge the importance of an ethical foundation. This course studies different paradigms of ethical behavior and procedures that may be followed if unethical acts occur. The course recognizes that all citizens, not just criminal justice professionals, must address ethical principles.

CJS 660 Crime Victims and Victim Services (3 Credits)

This course introduces students to some of the important issues and controversies concerning victims of crime. Students will develop an appreciation for the victimization experience by studying the major perspectives concerning the roles of victims in criminal events and the criminal justice system, the provision of services to crime victims, and the importance of power related to crime victims. The course will examine crime victims in the United States and other countries.

CJS 665 Criminal Justice Internship (3 Credits)

Students will perform various duties in agencies and organizations active in criminal justice. An agency supervisor and the internship supervisor will direct each student in mastering relevant skills to complete the tasks associated with a significant position in the internship agency. During the internships each student will be considered a quasi-working member of the agency.

CJS 672 Policing and Adjudicating Juveniles (3 Credits)

The course considers the advantages and disadvantages of special youth bureaus in police departments. Further consideration is given to the structure and procedures of juvenile justice.

CJS 674 Juvenile Corrections and Treatment (3 Credits)

The philosophy of protecting juveniles has been the traditional perspective of the United States. Consequently, rehabilitation rather than punishment has been the objective in responding to juvenile delinquents. Changing perspectives on youth have brought about more punitive responses to young criminals, however. The conflict between corrections and treatment is considered in how societies seek justice for juveniles.

CJS 676 Juvenile Delinquency & Justice System (3 Credits)

Examines the meaning of the concept of juvenile delinquency as a separate entity in the criminal justice system. The course also surveys youth victimization and offending patterns and analyzes the diverse theoretical explanations of delinquency.

CJS 678 Juvenile Offenders and Youth Gangs (3 Credits)

Juvenile delinquency has come to be almost synonymous with gang membership. Yet, there is some question about the prevalence of juvenile gangs and their criminality. The course examines gangs throughout history and traces their structures using research-based facts explicating the importance of youth gangs in society.

CJS 681 Youth and Society (3 Credits)

This course introduces students to some of the important issues and controversies concerning youth in society. The course will examine youth in the United States and other countries. The basic point of view is that youth is a social construct reflecting both social structural and cultural influences. This course examines how the roles of youth are defined for different age groups and cultures. The emphasis is on understanding how societal factors influence youthful behavior for conformity and deviance.

CJS 689 Gender, Crime, and Justice (3 Credits)

Examination of gender issues within the criminal justice system. This course focuses on women as offenders, prisoners, victims, and survivors of crime and as professionals.

CJS 690 Independent Study in Criminal Justice (3 Credits)

Students under faculty guidance analyze specific areas of interest in criminal justice.

CJS 699 Thesis (6 Credits)

Students in this course will design and conduct original criminal or juvenile justice research under the guidance of a faculty committee. The final, written report will present the research problem, theoretical rationale, methodology, results, and interpretation with policy implications as appropriate. An approved thesis proposal is required as a prerequisite to this course. Permission of instructor is required.

CJS 750 Continuing Registration (0 Credits)

To allow Criminal Justice graduate students who have completed course work to remain in good standing while working on their thesis or comprehensive examination.

CJS 752 Comprehensive Examination (0 Credits)

This course is required for all students taking the comprehensive examination. Students should register for the course the semester they intend to sit for the comprehensive examination.

CJS 200 Introduction to Criminal Justice (3 Credits)

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 Juvenile Delinquency (3 Credits)

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 Law Enforcement (3 Credits)

Focuses on the police as an official societal agency of social control. Provides an understanding of the role of the police in reducing and promoting crime. Surveys of the organization of police departments as well as the recruitment and socialization of police officers.

CJS 230 Introduction to Corrections (3 Credits)

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 230H Honors Introduction to Corrections (3 Credits)

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 Criminology (3 Credits)

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 American Ct Systems Honors (3 Credits)

Introduction to the operation of the judicial court system with emphasis on the police, agents of the FBI, 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 313H American Ct Systems Honors (3 Credits)

Introduction to the operation of the judicial court system with emphasis on the police, agents of the FBI, 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 Sociology of Drug Usage (3 Credits)

Examines facts and theories of drug usage in different cultures, focuses primary attention on contemporary U.S. Includes medical aspects of different kinds of drugs and psychological 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 Cybercrime (3 Credits)

Introduces students to the criminal justice aspects of cybersecurity. Examines theoretical frameworks and methods of investigation. This 300-level Cybercrime course offers students studying criminal justice an understanding of the new frontier in which cyber-victims and cyber-perpetrators exist.

CJS 492 Topics in Criminal Justice (3 Credits)

Examines the gender differences in criminal behavior, victimization, and criminal justice processing, emphasizing the unique experiences of racial minorities in these areas.

CJS 492L Special Topic: Women Crim Just System (3 Credits)

Research development activities for graduate students.

CJS 492M Special Topic: Environ Crime & Justice (3 Credits)

Provides a critical analysis of environmental crime and justice. A sociological understanding of crime provides the context for examining the issues of environmental equity and implications for the criminal justice system.

Drama (DRM)

DRM 111 Practical Skills in Theatre I (1 Credits)

Study of the general principles and techniques of interviewing, auditioning, and rehearsing for careers in theatrical performance, design, and technology.

DRM 112 Practical Skills in Theatre II (1 Credits)

Methods and approaches for future theatre professionals on how to seek and obtain employment and graduate study opportunities for careers in theatrical performance, design, and technology.

DRM 113 Theatre Movement I (3 Credits)

Development of performer's physical conditioning and awareness of expressive artistic storytelling through movement.

DRM 114 Introduction to Theatre (3 Credits)

Survey of theatrical forms, techniques, and practices. Reading of selected plays. Attendance at NSU Theatre Company productions required. Lab included.

DRM 115 Dramatic Theory & Criticism (3 Credits)

Major critical theories from Aristotle to the present.

DRM 120 Stagecraft I (3 Credits)

Study of practical and theoretical knowledge of scenery, lighting, and sound design for the Theatre. Lab included.

DRM 123 Theory and Techniques of Acting (3 Credits)

Study of actor's resources, including body, mind and voice. Focus is on terminology, play analysis, scoring, stage areas, and monologue work.

DRM 200 Intermediate Acting (3 Credits)

Study of the physical and vocal demands involved in the creation of a role for the stage. Focus is on scene work.

DRM 212 Improvisation for the Theatre (3 Credits)

Development of the performer by encouraging spontaneity, including group ensemble work through improvisation.

DRM 213 Practical Skills in Theatre III (1 Credits)

Study of marketing and promotional strategies for performers and producers.

DRM 219 Black Drama (3 Credits)

Study of major African American, African, and Caribbean playwrights and their plays.

DRM 220 Stagecraft II (3 Credits)

In-depth study of technical direction, carpentry, lighting, properties, sound, welding, and special effects. Advanced study of technical theatre.

DRM 226 Children's Theatre (3 Credits)

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 Stage Management (3 Credits)

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 Theatre Management (3 Credits)

Study of principles and techniques of organizing and managing theatre production programs in educational, community, and commercial settings.

DRM 310 Stage Make-Up (3 Credits)

Study of stage make-up techniques/designs, practices and equipment. Demonstrations of make-up design for an experimental production required.

DRM 315 History of Theater I (3 Credits)

Study of history of theatre from the beginning to 1650.

DRM 320 Lighting Design (3 Credits)

Emphasis on sources and control of light, equipment, and light design.

DRM 321 Stage Design (3 Credits)

Experience with floor plans, elevations, modules, and perspective designs for theatrical events. Lab included.

DRM 324 Advanced Acting Theory (3 Credits)

Focus on acting, theories, advanced techniques in acting, and styles of acting.

DRM 328 Contemporary Drama (3 Credits)

Detailed study of the plays, playwrights, and dramatic movements of the post-World War II period.

DRM 410 Costume Design (3 Credits)

Study of elements of design in relationship to the planning and constructing of production designs concepts. Lab included.

DRM 413 Shakespeare for the Stage (3 Credits)

Focus on acting, theories, and advanced techniques in performing Shakespearean text.

DRM 420 Play Production (3 Credits)

Study of the process of mounting a play for public performance.

DRM 425 Directing (3 Credits)

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 with a cast of three or more.

DRM 426 Special Project in Theater I (3 Credits)

A practical application course designed to explore theatre concepts within a group setting and involves an exchange of ideas and practical methods, skills, and principles.

DRM 430 Playwriting (3 Credits)

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 Advanced Technical Theatre (3 Credits)

Advanced design theory and stage practice. Design of stage lighting, scenery, and sound.

DRM 436 Sound Design (3 Credits)

Exploration of sound design: principles, practices, and uses as applied to today's theatre. A series of projects in recording, mixing, editing, and analysis.

DRM 450 Research Seminar (3 Credits)

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.

Early Childhood Education (ECE)

ECE 110 Introduction to the Profession (2 Credits)

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.

ECE 224 Children's Literature for Ece (3 Credits)

Study of children's literature (prose and poetry) and an appraisal of its value in meeting the basic needs of preschool, kindergarten, and primary school children. Emphasis on reading aloud, storytelling, and choral speaking.

ECE 232 Creative Activities for Children (3 Credits)

This is a lecture and experientially based course that focuses on the development of creative abilities for 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 362 Mthds/Mtrls Instr Math Young Children (3 Credits)

Methods and techniques of teaching math to elementary school children. Includes preparation and practice with materials in classroom situations. Designed to meet the needs of elementary school teachers in grades K-6.

ECE 370 Analyzing Behavior of Children (3 Credits)

A lecture and experientially based course that focuses on observation methods that apply to young children. Both formal and informal assessment methods 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 375 Children's Drama (3 Credits)

Study of theories and methods of children's drama and creative development with a focus 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 preschool years.

ECE 420 Parent Education (3 Credits)

Focus on strategies for helping childcare 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 460 Admin of Child & Family Programs (3 Credits)

Exposure to the administrative aspects of early childhood education. Introduction 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 495 Practicum (9 Credits)

Emphasis on designing and implementing developmentally appropriate learning experiences for children ages 2 to 5 in a childcare setting. Study of the role of the childcare director, with an emphasis on administrative tasks.

Early Childhood Special Education (ECS)

Economics (ECN)

ECN 200 Basic Principles of Economics (3 Credits)

Introduction to basic core concepts of microeconomics and macroeconomics with emphasis on the theories and applications of economics, including supply-demand analysis, theories of firm, elasticity (demand, supply, and income), the four types of markets, gross domestic product, business cycle, unemployment, inflation, aggregate demand and aggregate supply, and fiscal policy.

ECN 200H Honors Basic Principles of Economics (3 Credits)

Introduction to basic core concepts of microeconomics and macroeconomics with emphasis on the theories and applications of economics, including supply-demand analysis, theories of firm, elasticity (demand, supply, and income), the four types of markets, gross domestic product, business cycle, unemployment, inflation, aggregate demand and aggregate supply, and fiscal policy.

ECN 211 Principles of Microeconomics (3 Credits)

Introduction to microeconomic principles relative to an economic system, including supply and demand analysis, elasticity (demand, supply, and income), types of business organizations, theories of the firm and market models, resource allocation, factorial distribution, and international trade.

ECN 211H Honors Principles of Microeconomics (3 Credits)

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, factorial distribution, and international trade.

ECN 212 Principles of Macroeconomics (3 Credits)

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 policies to achieve desired national goals.

Education (EDU)

EDU 100 Career Analysis in Education (1 Credits)

Introduction to education in America and the potential roles to be played both in schools and in the broader community. Self-assessments, field experiences, and contemporary topics are explored.

EDU 101 Preparing for Math & Science Real World (1 Credits)

Designed to attract students who are interested in teaching math and science in PK-12. Self-assessments and virtual mentoring/tutoring are explored to determine the students' interests and abilities in math and science.

EDU 201 Foundations of Education (3 Credits)

Designed to provide pre-service teachers with a clear understanding of the profession and the issues and controversies confronting American education. Emphasis on preparing reflective teachers.

EDU 202 Human Growth & Development (3 Credits)

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.

EDU 381 Classroom and Behavior Management (3 Credits)

Promotes an understanding and application of classroom behavior management, including discipline-specific methodology and individual interventions as well as classroom management techniques designed to maintain decorum in the classroom.

EDU 381H Honors Classroom & Behavior Management (3 Credits)

Promotes an understanding and application of classroom behavior management, including discipline-specific methodology and individual interventions as well as classroom management techniques designed to maintain decorum in the classroom.

EDU 420 Education Technology (3 Credits)

Designed to broaden students' ability to effectively integrate technology in the K-12 setting with a focus on supplemental instructional strategies through technology design and assistive technologies to increase student achievement. Students will investigate the use of computer-based technologies and best practices with technology to improve the teaching and learning process.

EDU 486 Human Growth and Development (3 Credits)

In this course students will be able to gain an understanding of the physical, social, emotional, speech and language, and intellectual development of children and be able to use this understanding in guiding learning experiences.

EDU 486H Honors Human Growth & Development (3 Credits)

In this course students will be able to gain an understanding of the physical, social, emotional, speech and language, and intellectual development of children and be able to use this understanding in guiding learning experiences.

EDU 499 Directed Teaching (12 Credits)

Designed to provide two supervised experiences at two levels, PK-3 and 4-6, and for SPE K-12 elementary 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 times during each experience. This 16-week practicum/student teaching experience including a one-week observation is a mandatory requirement of the program.

Electronics Engineering (EEN)

EEN 100 Introduction to Engineering (3 Credits)

Activity-based course with a number of life skills, exercises, and hands-on activities integrated into the lectures. Familiarizes 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.

EEN 101 Engineering Problem Solving (2 Credits)

Provides an overview of the salient math topics most heavily used in the core sophomore-level engineering courses, including algebraic manipulation of engineering equations, trigonometry, vectors, and complex numbers.

EEN 102 Engineering Use of Computers (3 Credits)

Introduction to the use of computers to model systems and solve engineering problems using a high-level language. Flowcharts and algorithms will be used in the process of program design.

EEN 201 Electrical Network Theory I (3 Credits)

Introduction to the basics of DC electrical circuit theory for electrical engineering and other technology majors. 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.

EEN 201L Electrical Network Theory I Laboratory (1 Credits)

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.

EEN 202 Electrical Network Theory II (3 Credits)

Introduction to the application of unit-step as forcing function, power and energy, polyphase circuits, complex frequency and frequency response transformers and other two-part networks, linear network analysis using Laplace transform methods, and Fourier transformation.

EEN 202L Electrical Network Theory II Laboratory (1 Credits)

This is the laboratory that accompanies EEN 202 Electrical Networks II. This course provides the students 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.

EEN 203 Electronic Principles (3 Credits)

This is the second engineering course for second year optical engineering majors. This course provides students with advanced concepts of circuit theory as well as an introduction to the theory and application of electronic devices. Topics include first and second order transient circuits, AC circuit analysis, diodes, transistors, and operational amplifier. Computer modeling of electronic circuits will be introduced.

EEN 211 Materials Science & Engineering (3 Credits)

This course introduces students in optical and electronics engineering programs to concepts that are necessary to understand important ideas in materials science and engineering. This course relates these concepts to engineering design and manufacturing of electronic and photonic devices.

EEN 231 Digital Electronics Logic Design (3 Credits)

Study of number systems, binary arithmetic and codes, Boolean algebraic simplification, Quine-McCluskey method and Karnaugh Maps, Diode and transistor logic flip-flops, and sequential networks.

EEN 231L Digital Logic Design Laboratory (1 Credits)

This is a laboratory course that accompanies EEN 231 Digital Logic Design. The goal of this course is to provide the student with hands-on experience with the design and analysis of combinational and sequential logic design. Topics include code converters, multiplexer design, synchronous and asynchronous sequential circuits design including counters and shift registers.

EEN 301 Engineering Electronics I (3 Credits)

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 this employing SPICE or its equivalent.

EEN 301L Electronic Devices Laboratory (1 Credits)

This is the laboratory that accompanies EEN 301 Engineering Electronics I. The goal of this course is to provide the student with hands-on experience with electronic components such as BJTs, FETs 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.

EEN 302 Microelectronics (3 Credits)

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: multistage 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.

EEN 302L Microelectronics Laboratory (1 Credits)

This is the laboratory that accompanies EEN 302 Microelectronics. The goal of this course is to provide the student with 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.

EEN 305 Signals and Systems (3 Credits)

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.

EEN 311 Engineering Economics (3 Credits)

Introduction to economic principles and techniques used in making decisions about the acquisition and retirement of capital goods by government and industry. Emphasis on methods of analysis based on the mathematics of compound interest. Study of time value of money, annual cost, present worth, future value, capitalized cost, break-even analysis, evaluation, depreciation, and ethics in economics. Includes entrepreneurial topics, such as business plans, sources of capital, and marketing strategies.

EEN 321 Electromagnetic Field Theory (3 Credits)

This course involves the study of static and propagating electro-magnetic fields, a review of Maxwell's equations, propagation of EM-fields in dielectric waveguides, transmission theory, and an introduction of antennas.

EEN 321H Honors Electromagnetic Field Theory (3 Credits)

This course involves the study of static and propagating electro-magnetic fields, a review of Maxwell's equations, propagation of EM-fields in dielectric waveguides, transmission theory, and an introduction of antennas.

EEN 331 Microprocessors (3 Credits)

Introduction to the structure of microprocessors and microcomputers. Representation of information in the computer logic and storage devices. Processor structure registers, transfer of information, and control programming in microcomputers.

EEN 331L Microprocessor Lab (1 Credits)

Procedures for reliable digital microcomputer design, understanding manufacturer's 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.

EEN 333 Digital Integrated Circuits (3 Credits)

This course involves the study of digital CMOS circuits, MOSFET transistors, combinational circuits, and sequential circuits. The design of simple digital gates and circuits at the transistor level and simulation of designed circuits for performance verification are also studied.

EEN 333L Digital Integrated Circuits Laboratory (1 Credits)

Laboratory work and a design project are intended verification of CMOS logic circuits. Laboratory exercises to cover CMOS propagation Delay and Layout Parasitics, Gate Styles, CMOS Arithmetic Blocks, Bipolar Devices, Bipolar Devices Propagation Delay, Very High Speed Combinational Logic, Sequential Circuits, Sequential Circuits and Timing Issues, Memory and Array Structures are also done.

EEN 350 Scientific Instrumentation (3 Credits)

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.

EEN 351 Communications Engineering I (3 Credits)

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.

EEN 371 Control Systems (3 Credits)

Introduction to control systems, mathematical models, feedback control systems characteristics and stability, root locus, frequency responses, stability in the frequency domain analysis.

EEN 401 Electronics Engineering Seminar (1 Credits)

This course provides an introduction to various aspects of engineering practice and engineering ethics.

EEN 431 Microcontrollers (3 Credits)

This course is a study of microcontrollers and microcontroller-based systems including the description of hardware architecture, assembly, language programming, and system interfacing through hands-on projects.

EEN 431H Honors Microcontrollers (3 Credits)

This course is a study of microcontrollers and microcontroller-based systems including the description of the hardware architecture, assembly, language programming, and system interfacing through hands-on projects.

EEN 451 Communications Engineering (3 Credits)

Introduction to wireless communication technologies. Topics covered include transmission fundamentals, signal encoding techniques, coding and error control, cellular wireless networks, Mobile IP and wireless access protocols.

EEN 462 Semiconductor Processing Technology (3 Credits)

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.

EEN 471 3D Game Programming (3 Credits)

This is a project-oriented course on 3D Game Programming. Students will work in teams to design, implement and test a 3D game with interactivity, game state diagrams, animation, sound, and constraints.

EEN 475 Design of Robotic Systems (3 Credits)

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.

EEN 475H Honors Design of Robotic Systems (3 Credits)

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.

EEN 476 Renewable Bio Energy (3 Credits)

This course presents an overview of our present status of knowledge on renewable bio energy. This course will cover the processes for recovery, production, and usage of bio fuels and bio products generated from biomasses to ultimately produce heat, electricity, transportation fuel, chemicals, and materials. The types of bio-waste and their use for energy and product generation will also be examined. The economic and environmental aspects of global bioenergy markets will also be examined.

EEN 481 Biomedical Eng Micro-Devices/Systems (3 Credits)

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, biopotentials, and cellular ions. The course also includes a laboratory component for the design and fabrication of microscale biomedical sensors.

EEN 482 Bioelectrics (3 Credits)

Basic electrical engineering will be applied to understand how electrical signals are generated in a biological cell and their role in proper functioning of various bioelectrical systems in our body. This course covers the important concepts of bioelectrics, 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.

EEN 498 Sr Project I (3 Credits)

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.

EEN 499 Sr Project II (3 Credits)

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.

Electronics Engineering Technology (EET)

EET 111 Circuit Analysis I (3 Credits)

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 magnetism circuits.

EET 111L Circuit Analysis I Laboratory (1 Credits)

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 hours per week.)

EET 212 Circuit Analysis II (3 Credits)

Study of alternating current circuits, with emphasis on alternating current and voltage capacitors, RC circuits, inductors, RL circuits, resonance, AC network analysis, network theorem and transformers.

EET 212L Circuit Analysis II Laboratory (1 Credits)

Introduction to "live" and computer simulated experiments in AC theory with emphasis on breadboarding electric circuits, using meters and electronic simulation software. Develops skills in measuring AC circuit parameters. (Meets 3 hours per week.)

EET 213 Electronic Devices I (3 Credits)

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 Electronic Devices I Laboratory (1 Credits)

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 Digital Electronics (3 Credits)

Study of digital devices and circuits, logic devices, integrated circuits, binary, and hexadecimal.

EET 220L Digital Electronics Laboratory (1 Credits)

Experiments on logic circuits, integrated circuits and microprocessors, circuit and device troubleshooting and analysis. (Meets 3 hours per week.)

EET 313 Electronic Devices II (3 Credits)

Examination of power amplifiers, operational amplifiers, active filters, oscillators, communications circuits, voltage regulators, and other semiconductor devices.

EET 313L Electronic Devices II Laboratory (1 Credits)

Experiments with power amplifiers, operational amplifiers, active filters, oscillators, communications circuits, voltage regulators, and other semiconductor devices.

EET 314 Instrumentation Measurement & Control (3 Credits)

Study of the 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 including on-off, proportional, derivative, PID and fuzzy logic. Programmable logic devices are also introduced.

EET 315 Analog Communication Systems (3 Credits)

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 sidebands.

EET 315L Analog Communication Systems Laboratory (1 Credits)

This is the lab component of EET 315. Emphasis is on measurement and analysis of communications signals and evaluation of communication systems.

EET 413 Digital Communications Systems (3 Credits)

Theory of communications systems utilizing digital signals. Includes coding, multiplexing, digital modulation, information codes, and error detection codes.

EET 413L Digital Communications Systems Lab (1 Credits)

This course is the laboratory component for EET 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 497L Sr Project A: Capstone Experience I (1 Credits)

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 Sr Project B: Capstone Experience II (1 Credits)

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.

Elementary Education (EED)

EED 233 Critical Thinking & Assessment Skills (3 Credits)

Study and application of theories, methods, and materials used in acquiring critical thinking skills with emphasis on areas of development and reinforcement including writing, schema, concept mapping, and multiple stimulus reinforcement.

EED 274 Study of Young Children (3 Credits)

Comprehensive introduction to the growth and development of children from conception to nine years with emphasis on the major theories of development with an examination of physical, cognitive, language and social-emotional development.

EED 360 Curr & Instr for Primary Grades (3 Credits)

Preparation for implementing an effective preK-3 curriculum. Prerequisite is adequate content knowledge to teach math, science, reading, social studies, PE, health, and technology. Assists in developing a teaching philosophy, knowledge of human growth and development, practical experience with children, ability to interpret research on teaching and learning, differentiation, classroom management, assessment, effective use of technology, and collaboration.

EED 450 Teaching Literacy in Elementary School (3 Credits)

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 K-6.

EED 461 Curr & Instr for Early School (3 Credits)

Study of curriculum, instruction, learning environments, and the professional responsibilities of teachers for linking knowledge of subject fields, pedagogy, classroom management and insights. Focus on grades 4-6 curriculum, goal setting, content, and methodology. Candidates required to spend 20 scheduled hours during the semester in a 4-6 grade classroom, planning, designing, and implementing activities. Videotaping of activities/lessons, demonstrations, and classroom simulations required.

EED 465 Mthds/Matrls Tchng Science/Math/Tech (3 Credits)

Provides the novice teacher with knowledge for math and science teaching and learning in elementary school. Topics include math and science; assessing student learning; planning units, lessons, and activities; effective instructional strategies; and knowledge of math and science content.

EED 470 Mthds Tchng Social Studies in Elem Schl (3 Credits)

Provides the novice teacher with knowledge for social studies teaching and learning in elementary school. Topics include the what and why of social studies; assessing learning; planning units, lessons, and activities; effective instructional strategies; and knowledge of social studies content. Focus on technology integration, VA SOLs, VA teaching standards, and standards proposed by professional associations.

EED 490 Diagnostic Reading (3 Credits)

Preparation for elementary school student teachers to diagnose and correct mild to moderately severe reading difficulties. 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.

EED 490H Honors Diagnostic Reading (3 Credits)

Preparation for elementary school student teachers to diagnose and correct mild to moderately severe reading difficulties. 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.

EED 499 Directed Teaching and Seminar (12 Credits)

Program 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 16-week practicum experience including a one-week observation is a mandatory requirement of the program.

English (ENG)

ENG 101 College English I (3 Credits)

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 passed with a "C" or above.

ENG 101H Honors College English I (3 Credits)

Experiences in multi-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 reading included. Must be passed with "C" or above.

ENG 102 College English II (3 Credits)

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 102H Honors College English II (3 Credits)

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 110 Introduction to Creative Writing (3 Credits)

Introduction to the craft and practice of creativewriting in a variety of forms, genres, and agecategories. Practical experience in both writingand editing.

ENG 114 Techniques of Vocabulary Building (2 Credits)

Introduction to the study of language with emphasis on processes of vocabulary building and some techniques of vocabulary expansion.

ENG 203 Advanced Communication Skills (3 Credits)

Emphasis on the writing of analytical essays based on selected readings. Researched, documented exposition is stressed.

ENG 203H Honors Advanced Communication Skills (3 Credits)

Emphasis on the writing of analytical essays based on selected readings. Researched, documented exposition is stressed.

ENG 207 Introduction to World Literature (3 Credits)

Close attention to works selected from world literature for their exemplary literary qualities and their bearing upon cultural heritage.

ENG 207H Honors Introduction to World Literature (3 Credits)

Close attention to works selected from world literature for their exemplary literary qualities and their bearing upon cultural heritage.

ENG 210 Practical English Grammar (3 Credits)

Structure of the English language and the principles underlying both sentence construction and standard English usage, establishing the connection between grammar and writing.

ENG 210H Honors Practical English Grammar (3 Credits)

Structure of the English language and the principles underlying both sentence construction and standard English usage, establishing the connection between grammar and writing.

ENG 215 Writing Short Stories (3 Credits)

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 stories.

ENG 218 Writing Poetry I (3 Credits)

Introduction to the art of poetry writing with emphasis on writing about literature and the nature and function of the English language.

ENG 250 Topics in Literature and Culture (3 Credits)

Focused inquiry on a literary theme, historical era, genre, single author or group of authors, specific regional or national literatures, or other topics defined by the instructor. Descriptions of the topic in a particular semester will be available in the English Department before registration.

ENG 285 Public Speaking (3 Credits)

Focus 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, and audience psychology.

ENG 285H Honors Public Speaking (3 Credits)

Focus 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, and audience psychology.

ENG 286 Writing About Literary Texts (3 Credits)

Principles and techniques of grammar, rhetoric, and logic with emphasis on writing about literature and the nature and function of the English language.

ENG 299 Writing Competency Exam (0 Credits)

Contact the department for specific course information.

ENG 303 Professional & Technical Writing (3 Credits)

Discipline-specific course designed to provide writing experiences across the curriculum.

ENG 303H Honors Professional & Technical Writing (3 Credits)

Discipline-specific course designed to provide writing experiences across the curriculum.

ENG 306 Introduction to Literary Criticism (3 Credits)

Survey of various critical approaches (biographical, sociological, mythical, structural, psychological, etc.) and their application to specific works and genres.

ENG 306H Honors Intro to Literary Criticism (3 Credits)

Survey of various critical approaches (biographical, sociological, mythical, structural, psychological, etc.) and their application to specific works and genres.

ENG 312 Writing in a Genre (3 Credits)

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, and manuscript preparation.

ENG 313 Writing Creative Nonfiction (3 Credits)

Focus on the genre of creative nonfiction, including personal essays, memoir, travel writing, literary journalism, and other forms. Students will study the craft of creative nonfiction by reading published literary works that will serve as models for their own creative work. Emphasis on the workshop format, learning to write for a specific audience, and doing deep revision of creative work.

ENG 314 Screenwriting (3 Credits)

Training in the fundamental components of screenwriting through analysis of character motivation, pacing and plot structure. Focus on techniques used by professional writers in crafting movie shorts and full-length feature films.

ENG 315 Survey of English Literature I (3 Credits)

Study of the major authors and major works in English literature from the Anglo-Saxon period through the 18th Century.

ENG 316 Survey of English Literature II (3 Credits)

Study of the major authors and major works in English literature from the Romantic period through the Modern Age.

ENG 318 Writing Poetry II (3 Credits)

Development of an advanced knowledge of self-expression and creativity as well as the use of poetic devices such as meter, rhythm, and symbolism in traditional and contemporary forms.

ENG 341 Survey of American Literature I (3 Credits)

Survey of American literature from the Colonial Period to the Civil War.

ENG 342 Survey of American Literature II (3 Credits)

Survey of American literature from the Civil War to the present.

ENG 350 Sem: Literary Analysis & Interpretation (3 Credits)

Offers students in-depth instruction in the skills of analysis and interpretation of literary texts to prepare them for thesis-writing. Students practice close reading and analysis of texts in different genres and learn to develop thesis-driven essays about literature.

ENG 383 African American Literature (3 Credits)

Survey of African American literature, including selected African American writers from slavery to the present time.

ENG 383H Honors African American Literature (3 Credits)

Survey of African American literature, including selected African American writers from slavery to the present time.

ENG 410 History of the English Language (3 Credits)

Structure and development of the language in England and America with emphasis on historical grammar and linguistic changes with the cultural factors involved.

ENG 410H Honors History of the English Language (3 Credits)

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 Chaucer (3 Credits)

Designed to provide a general acquaintance with The Canterbury Tales, Troilus and Criseyde, and some of Chaucer's minor poems.

ENG 413 Shakespeare (3 Credits)

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 413H Shakespeare (3 Credits)

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 419 Contemporary American English Grammar (3 Credits)

Survey of the function of American English grammar in modern communication with emphasis on usage, dialectology, stylistics, and aesthetics.

ENG 430 Romantic Writers (3 Credits)

Critical study of the development of the Romantic Movement with special emphasis on Wordsworth, Coleridge, Byron, Shelly, and Keats.

ENG 430H Honors Romantic Writers (3 Credits)

Critical study of the development of the Romantic Movement with special emphasis on Wordsworth, Coleridge, Byron, Shelly, and Keats.

ENG 449 Teaching of Composition (3 Credits)

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 Research Seminar and Sr Thesis (3 Credits)

Independent research on a topic selected by the student, approved by the departmental advisor, and completed under the guidance of the advisor.

ENG 454 Young Adult Literature (3 Credits)

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 Literature & Popular Culture (3 Credits)

Introduction to the systematic study of popular media, focusing on the development of selected print, film, and video genres.

ENG 456 Women's Studies: Myths and Images (3 Credits)

Exploration of the universal myths that promote certain images of women that relate to their biological function in modern fiction written by women.

ENG 456H Honors Women's Studies: Myths & Images (3 Credits)

Exploration of the universal myths that promote certain images of women that relate to their biological function in modern fiction written by women.

ENG 459 International Women's Literature (3 Credits)

Examination of fiction, poetry, diaries, journals, letters, interviews, and feminist essays by womenwriters from the international community, including a study of new conceptual and psychological models of women which provide new frameworks for criticism.

ENG 460 Assessment & Evaluation of Writing (3 Credits)

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. Designed for the student teacher of composition at secondary and post-secondary levels.

ENG 465 Special Topics in Literature & Language (3 Credits)

Advanced study of a topic of literary or linguistic significance. Readings will include primary and secondary critical, analytical, or theoretical readings. Descriptions of the topic in a particular semester will be available in the English Department before registration.

ENG 466 Special Topics in Creative Writing (3 Credits)

Advanced study of a topic in creative writing. Students will explore how to write in a variety of forms, genres, and age categories.

ENG 490 Internship (3 Credits)

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 engage in sustained scholarly research on a selected topic under the guidance of a major professor.

ENG 519 Contemporary American English Grammar (3 Credits)

This course examines the function of American English grammar in modern communication. It discusses usage, dialectology, stylistics, and aesthetics.

ENG 560 Assessment and Evaluation of Writing (3 Credits)

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 648 Language and Culture (3 Credits)

This course examines interrelationships among language, perception, and culture. It pays particular attention to the works of such authors as Whorf, Lee Sapir, Carpenter and McLuhan.

ENG 654 Professional Writing (3 Credits)

This course teaches writing for selected professions and occupations, including technical writing for industrial, educational and social agencies. It emphasizes audience, purpose, and content analysis. The course includes proposals, feasibility studies, and short reports.

Exercise Science (EXS)

EXS 170 Introduction to Exercise Science (3 Credits)

Designed to expose students to the important aspects of the health-related academic field of exercise science and its disciplines, with a special emphasis on Kinesiotherapy, and their impact on a healthy lifestyle, disease prevention, and rehabilitation.

EXS 265 Activities for Handicap (2 Credits)

Introduction to therapeutic physical activities and sports that afford the disabled success, recognition, and approval among a variety of handicapping conditions.

EXS 266 Therapeutic Exercises and Sports (2 Credits)

Introduction to therapeutic physical activities and sports that afford the disabled success, recognition, and approval among a variety of handicapping conditions.

EXS 267 Therapeutic Exercises & Sports (4 Credits)

Designed to give a general overview of patho-physiology and the effects of specific diseases/conditions on the exercise response as outlined in the Kinesiotherapy Scope of Practice and Kinesiotherapy Standards of Practice. This includes the effects of exercise training on the condition, management of medications, recommendations for exercise testing, exercise programming, and research within the Kinesiotherapy discipline.

EXS 291 Care & Prevention of Athletic Injuries (3 Credits)

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 Stress Management (3 Credits)

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 using various relaxation techniques and practice strategies to initiate and maintain lifestyle changes that will help to both manage and prevent stress.

EXS 300 Exercise Physiology (3 Credits)

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 300L Exercise Physiology Lab (1 Credits)

This course is designed to familiarize students with basic lab 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 Anatomical Kinesiology (3 Credits)

Study of anatomical terminology and gross human osteology, arthrology, myology, neurology, and angiology.

EXS 356 Biomechanics of Human Motion (3 Credits)

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 Organization of Management of Exerc Sci (3 Credits)

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 Clinical Aspects of Aging (2 Credits)

This course is designed to identify important aspects of applying fitness evaluation and prescription to the older adult population. Emphasis on the physiology of aging, motivational techniques, 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.

EXS 363H Honors Clinical Aspects of Aging (2 Credits)

This Honors course is designed to identify important aspects of applying fitness evaluation and prescription to the older adult population. Emphasis on the physiology of aging, motivational techniques, 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.

EXS 364 Clinical Experience Practicum (3 Credits)

This course is 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 369 Research Mthds & Statistical Evaluation (3 Credits)

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 430 Neurological/Pathological Fndtns Exer (3 Credits)

Survey of illnesses relating to neurological dysfunction and the nature and physiological consequence of disease processes for healthy and diseased populations.

EXS 430H Honors Neuro and Patho Found in Exer (3 Credits)

Survey of illnesses relating to neurological dysfunction and the nature and physiological consequence of disease processes for healthy and diseased populations.

EXS 483 Clinical Kinesiology I (3 Credits)

Practical application of the knowledge with emphasis on physical musculoskeletal function, neurological involvement, goniometry, anthropometry, and gait analysis.

EXS 484 Clinical Kinesiology II (3 Credits)

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 491 Clinical Experience Practicum (3 Credits)

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 493E Clinical Internship in Exercise Science (6 Credits)

Practicum experiences require 500 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.

EXS 493F Clinical Internship in Exercise Science (6 Credits)

Practicum experiences require 500 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.

EXS 493G Clinical Internship Exercise Science I (10 Credits)

Practicum experiences require 500 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.

EXS 493I Clinical Internship Exercise Science I (10 Credits)

Practicum experiences require 500 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.

EXS 493J Clinical Internship Exercise Science II (10 Credits)

Practicum experiences require 500 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 Merchandising (FDM)

FDM 149 Apparel Production I (3 Credits)

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 250 Pattern-Making I (3 Credits)

Using draping, flat pattern, and drafting procedures to develop and construct one original muslin garment in half or full size.

FDM 251 Design Studio I (2-3 Credits)

Introduction to design research. Completion of a full-size, original designed garment or garment ensemble is required.

FDM 334 Textiles (3 Credits)

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 Fashion Forecasting and Sourcing (3 Credits)

Explorations in the use of the Internet and other resources to determine trends and sources related to fashion apparel and accessories.

FDM 364 Fashion Creation & Design I (3 Credits)

Contact Fine Arts Program Coordinator for more information.

FDM 365 Design Studio II (2 Credits)

Studio practice in the creation and production of original fashion apparel using computer applications.

FDM 366 Apparel Products Evaluation (3 Credits)

Development of visual and verbal precision in the identification, classification, and evaluation of quality in apparel structures.

FDM 373 Fashion History (3 Credits)

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 449 Design Collections (3 Credits)

Developing an original line of apparel and/or accessory items for one of the major apparel industry categories. A minimum of 5 items must be included.

FDM 454 Curr Iss in Fashion Design/Merchandis (3 Credits)

Seminar course in which emerging issues related to the fashion industry will be explored.

FDM 496 Fashion Merchandising Internship (3 Credits)

Two hundred hours of supervised work experience 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.

Fine Arts (FIA)

FIA 110 Introduction to Art (3 Credits)

This course is designed to provide students with an understanding of the position, place, and role of art and artists in the culture in which they lived. The course focuses on the work of artists throughout history and in various cultures, and how their work enhanced the intellectual, spiritual, social, economic, and political developments of man from the cave to the present.

FIA 114 Basic Design I (3 Credits)

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 Basic Design II (3 Credits)

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 116 Basic Design III (3 Credits)

Exploration of the relationship between form, space, and ideas in three-dimensional design. The sequence of projects begins with simple constructions and structures, then evolves to an investigation of complex three-dimensional form.

FIA 120 Drawing I (3 Credits)

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 Drawing II (3 Credits)

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 140 Ceramics I (3 Credits)

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 Ceramics II (3 Credits)

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 160 Lettering (3 Credits)

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 165 Foundations of Photo I (3 Credits)

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 Foundations of Photo II (3 Credits)

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 Basic Art Appreciation (3 Credits)

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 201H Honors Basic Art Appreciation (3 Credits)

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 Fashion Drawing (3 Credits)

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 Craft Design Workshop I (3 Credits)

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 220 Life Drawing I (3 Credits)

Drawing from live models to familiarize the student with various approaches to the figure.

FIA 221 Life Drawing II (3 Credits)

Drawing from live models to familiarize the student with various approaches to the figure.

FIA 234 Painting I (3 Credits)

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 Painting II (3 Credits)

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 Sculpture (3 Credits)

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 260 Introduction to Graphic Design (3 Credits)

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 Printmaking Workshop I (3 Credits)

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 Printmaking Workshop II (3 Credits)

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 Studio Lighting I (3 Credits)

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 Studio Lighting II (3 Credits)

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 History of Art Survey I (3 Credits)

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 History of Art Survey II (3 Credits)

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 Computer Applications in the Arts (3 Credits)

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 Sophomore/Junior Review (1 Credits)

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 320 Intermediate Drawing I (3 Credits)

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 Intermediate Drawing II (3 Credits)

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 334 Art Composition & Painting (3 Credits)

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 Art Composition & Painting (3 Credits)

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 360 Typography (3 Credits)

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 362 Graphic Design I (3 Credits)

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 Graphic Design II (3 Credits)

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 Fashion Photography I (3 Credits)

An examination of fashion design and fashion photography as forms of communication and culture, 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; production and consumption; identity and body politics; art and status; nationhood and global economy; celebrity and Hollywood culture; youth cultures and subversive practices. Requires outside shooting and lab work. Computer experience is mandatory.

FIA 366 Fashion Photography II (3 Credits)

An examination of fashion as a form of communication and culture. Students will continue working on a photography portfolio suitable to fulfilling a position with a photography studio or creating their own. Includes collaborative work on mock jobs to get 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 African/African-American Art (3 Credits)

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 370H Honors African/African-American Art (3 Credits)

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 Introduction to Fibers (3 Credits)

Study of contemporary sculptural forms in the following categories: soft sculpture, body adornments, container forms, and wall hangings. Techniques used are wrapping, coiling, weaving, off-loom weaving, knot forming, trapunto, and fabric manipulation.

FIA 380 Computer Imaging (3 Credits)

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 Advanced Drawing (3 Credits)

Establishment of individual responses to the environment while building drawing concepts by working in series and presenting work in a professional manner.

FIA 460 Advanced Graphic Design I (3 Credits)

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 Advanced Graphic Design II (3 Credits)

Focus on research and experimentation in specialized visual communication media in a topical studio. Extensive experience in computer graphics required.

FIA 462 Design in Commerce I (3 Credits)

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 Design in Commerce II (3 Credits)

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 Studio Workshop I (3 Credits)

Requires photography students to apply what they have learned in all their photography courses. Facilitates their ability to create a more concise portfolio in their selected concentration. Prepares 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 Studio Workshop II (3 Credits)

Emphasizes the requirements photography students are to apply based on what they have learned in all their photography courses. Facilitates their ability to continue creating a more concise portfolio in their selected concentration. Prepares 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 Studio Workshop III (3 Credits)

Requires students to apply what they have learned in all their related courses. Facilitates their ability to create a more concise portfolio in their selected concentration. Prepares 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 workplace. Theoretical and historical relationships to the student artwork are discussed, reinforced, and applied.

FIA 468 Studio Workshop IV (3 Credits)

Requires students to apply what they have learned in all their related courses. Facilitates their ability to create a more concise portfolio in their selected concentration. Prepares 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 workplace. Theoretical and historical relationships to the student artwork are discussed, reinforced, and applied.

FIA 469 Printmaking Workshop I (3 Credits)

Applies experimental methods for digital media in printmaking. Teaches the use of digitally generated images, chemical processes, and traditional hand-drawn images to create intaglio prints. Requires min. 6 hrs/week in studio practice with additional time for research, preparation, and print proofing. Regular consultation with instructor is required to develop strong conceptual, philosophical, and personal exploration of image-making techniques and manual dexterity associated with printmaking.

FIA 470 Printmaking Workshop II (3 Credits)

Reinforces experimental printmaking techniques in application of digital media in intaglio printmaking. Builds upon content covered in FIA 469 by expanding the use of digitally generated images, chemical processes, and traditional hand-drawn images to create intaglio prints. Requires min. 6 hrs/week in studio practice with additional time for research, preparation, and print proofing. Regular consultation with instructor is required to develop strong understanding of image-making processes and manual dexterity associated with printmaking.

FIA 491 Advanced Studio Problems (3 Credits)

Study of studio problems in drawing, painting, printmaking, graphic design, sculpture, ceramics, and photography.

FIA 491B Advanced Studio Problems (3 Credits)

Study of studio problems in drawing, painting, printmaking, graphic design, sculpture, ceramics, and photography.

FIA 491C Advanced Studio Problems (3 Credits)

Study of studio problems in drawing, painting, printmaking, graphic design, sculpture, ceramics, and photography.

FIA 492 Advanced Studio Problems (3 Credits)

Studio problems in drawing, painting, printmaking, graphic design, sculpture, ceramics, and photography. May be used for one semester major-field-related internship.

FIA 492A Advanced Studio Problems (3 Credits)

Study of studio problems in drawing, painting, printmaking, graphic design, sculpture, ceramics, and photography.

FIA 492B Advanced Studio Problems (3 Credits)

Studio problems in drawing, painting, printmaking, graphic design, sculpture, ceramics, and photography. May be used for one semester major-field-related internship.

FIA 495 Portfolio Preparation/Senior Exhibition (2 Credits)

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. To be taken only in the final semester of major course work for graduation.

Food Science and Nutrition (FSN)

FSN 101 Intro to Dietetics & Food Science (2 Credits)

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 110 The Science of Human Nutrition (3 Credits)

This course will emphasize principles of nutrition, the six basic nutrients, and related health issues. The impact of nutrition on 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 Food Cost Control (3 Credits)

Theoretical and practical applications of food cost control in food service systems.

FSN 312 Phys & Chem Foundations of Nutrition (3 Credits)

Study of nutritional requirements as related to individuals at different stages of the life cycle from conception to the aged.

FSN 320 Food Service Management (3 Credits)

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 Scientific Food Development (3 Credits)

Application of experimental methods to food preparation considering physical, chemical, and biological changes.

FSN 330L Scientific Food Development Lab (1 Credits)

The course 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 Nutrition Education (3 Credits)

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 Advanced Nutrition & Human Metabolism (3 Credits)

Understanding the interrelations among nutrients in metabolism, effect of diets on the biophysical process and factors that may alter nutrient requirements in humans.

FSN 426 Nutrition & Disease (3 Credits)

Advanced study of nutrition as it relates to human disease with theoretical dietary management.

FSN 426L Nutrition & Disease Lab (1 Credits)

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 Nutrition in Sports & Fitness (3 Credits)

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.

FSN 460 Quantity Food Production (3 Credits)

Selection, use, and care of institutional equipment. Food preparation principles applied to quantity production. Experiences in a food service establishment.

FSN 484 Rural/Urban Nutrition (3 Credits)

Cultural and scientific aspects of food and nutrition as applied to the individual, the family, and the community.

French (FRN)

FRN 111 Elementary French I (3 Credits)

Introduction to fundamentals of pronunciation, grammar, structure, vocabulary, conversation, and reading.

FRN 111H Honors Elementary French I (3 Credits)

Introduction to fundamentals of pronunciation, grammar, structure, vocabulary, conversation, and reading.

FRN 112 Elementary French II (3 Credits)

Introduction to fundamentals of pronunciation, grammar, structure, vocabulary, conversation, and reading.

FRN 211 Intermediate French I (3 Credits)

Review of grammar, reading moderately difficult prose, oral practice, and written compositions.

FRN 212 Intermediate French II (3 Credits)

Intensive and extensive study and reading of modern prose, oral practice, and composition.

Geography (GEO)

GEO 130 Principles of Geography (3 Credits)

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 130H Honors Principles of Geography (3 Credits)

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 141 World Regional Geography (3 Credits)

Contact the department for specific course information.

GEO 336 Political Geography (3 Credits)

Examination of the relationship between politics and territory including how natural environments, distributions of populations and resources, and levels of technological developments influence political decisions and the world geographic realms.

GEO 337 Geography of Africa (3 Credits)

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 Caribbean Geography (3 Credits)

Examination of Caribbean cultural and historical landscapes. 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 Introduction to Gis (3 Credits)

Introduction to the concepts and theories of geographical information systems. This course and program are not about learning any one piece of software or software training. Course emphasis is on the creation, visualization, and analysis of geographically referenced data.

GEO 366 Illicit and Illegal Geographies (3 Credits)

The concepts of "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 expressions including conformity, concealment, resistance and transgression. Students will also consider the roles that cultural landscapes play in this dynamic geography.

GEO 366H Honors Illicit and Illegal Geographies (3 Credits)

The concepts of "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 expressions including conformity, concealment, resistance and transgression. Students will also consider the roles that cultural landscapes play in this dynamic geography.

GEO 430 Geography of Atlantic World Slavery (3 Credits)

Examination of the spatial expression of slavery in Africa, Europe, and the European New World colonies from 1450 onward. Focal topics include 1) the role geography played in the unique experience of enslaved people throughout the Atlantic World, 2) the role of landscape in slave revolts and other forms of resistance, 3) the spatial legacies of slavery, and 4) the geographic nature of remembering and forgetting slavery throughout the Atlantic Ocean.

GEO 450 Cultural Geography (3 Credits)

An overview of cultural geography and its history considering major themes in the last century. Examination of theories, themes, and concepts associated with the "new" cultural geography of the last four decades and how ideas in cultural geography influence and are influenced by related disciplines.

Health Education (HED)

HED 100 Personal and Community Health (2 Credits)

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 100H Honors Personal & Community Health (2 Credits)

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 Personal and Community Health (3 Credits)

Study of a basic knowledge necessary for meeting the state's approved professional preparation and responsibilities in the area of health.

HED 170H Honors Personal & Community Health (3 Credits)

Study of a basic knowledge necessary for meeting the state's approved professional preparation and responsibilities in the area of health.

HED 254 School/Community Health Ed Programs (3 Credits)

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 whole school program. The principles, goals, and structure of community agencies providing health education programs will also be explored.

HED 368A Curriculum & Methods in Health Ed (3 Credits)

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 General Safety Education (3 Credits)

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 Professionals (HRP)

HRP 120 Medical Terminology (3 Credits)

A study of medical terminology including abbreviations, prefixes, suffixes, root words, and technical terms with emphasis on proper spelling and usage.

HRP 120H Honors Medical Terminology (3 Credits)

A study of medical terminology including abbreviations, prefixes, suffixes, root words, and technical terms with emphasis on proper spelling and usage.

HRP 310 Current Trends in Health Care Delivery (3 Credits)

Study of the health care industry, governmental and voluntary care organizations in health care, the functions of health care providers, organizational patterns of health care facilities, current issues, and forces impacting the health care delivery system.

HRP 320 African American Health (3 Credits)

This course will systematically examine health care issues of African Americans in comparison to other racial/ethnic minority populations. Racial disparities in the leading causes of death, as identified by the Centers for Disease Control and Prevention, will be examined in the context of the five social determinants of health. Additionally, the course will examine delivery of health care as impacted by health-related events and the changing social, political, and economic influences.

HRP 320H Honors African American Health (3 Credits)

This course will systematically examine health care issues of African Americans in comparison to other racial/ethnic minority populations. Racial disparities in the leading causes of death, as identified by the Centers for Disease Control and Prevention, will be examined in the context of the five social determinants of health. Additionally, the course will examine delivery of health care as impacted by health-related events and the changing social, political, and economic influences.

Health Services Management (HSM)

HSM 300 Health Services Management (3 Credits)

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. (OIT Testing)

HSM 300L Health Services Management Laboratory (1 Credits)

Study of various problems and work settings of a health manager. Visit to various community health facilities required.

HSM 310 Health Personnel Management (3 Credits)

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.

HSM 311 Legal Aspects/Ethics Health Care (3 Credits)

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 Health Financial Management (4 Credits)

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 practice.

HSM 368 Healthcare Marketing (3 Credits)

This course provides a broad background in health care marketing, market management, interpersonal skills for the health care marketer, and strategic actions of the health care marketer.

HSM 387 Population Health (3 Credits)

This course is an overview of the essentials of population health practices to address the prioritized health care needs of populations with a goal of making recommendations to improve access to care, improve quality of care, and reduce cost of care.a

HSM 397 Healthcare Information Systems (3 Credits)

This course focuses on the impact of government policy and health care information technology (HIT), the various elements of an information system, HIT governance and strategic planning, key operational and technical processes for maximizing HIT efficiency.

HSM 451 Comprehensive Health Planning (3 Credits)

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 451H Honors Comprehensive Health Planning (3 Credits)

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 Long-Term Care Administration (3 Credits)

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.

HSM 460 Public Health Administration (3 Credits)

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.

HSM 470 Managerial Epidemiology (3 Credits)

This course illustrates how health services managers use epidemiological concepts and tools to improve management decisions. Emphasis is placed on population health management, managerial epidemiological analyses, and assessment of medical care processes/ outcomes.

HSM 470H Honors Managerial Epidemiology (3 Credits)

This course illustrates how health service managers can use epidemiological concepts and tools to improve management decisions. Emphasis placed on population health management, managerial epidemiological analyses, assessment of medical care processes/ outcomes, study designs, descriptive epidemiology, quantitative measures, and related terminology.

HSM 494 Health Services Management Internship (6 Credits)

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

HSM 494H Honors Health Svcs Managment Internship (6 Credits)

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-advising are required with faculty direction provided by telephone and on-site visitations.

HSM 497 Health Svcs Mngmnt Problems/Research (3 Credits)

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 History of World Societies I (3 Credits)

A comparative study of societies and cultures, and their interactions, from the earliest humans to the sixteenth century. Encourages critical thinking and geographical understanding, and offers exercises in writing, discussion, and computer applications.

HIS 100H Honors History of World Societies I (3 Credits)

A comparative study of societies and cultures and their interactions from the earliest humans to the sixteenth century. Encourages critical thinking and geographical understanding, and offers exercises in writing, discussion, and computer applications.

HIS 101 History of World Societies II (3 Credits)

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, and offers exercises in writing, discussion, and computer applications.

HIS 101H Honors History of World Societies II (3 Credits)

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, and offers exercises in writing, discussion and computer applications.

HIS 102 United States History to 1865 (3 Credits)

A comprehensive survey of U.S. history from the development of indigenous cultures to the passage of the Thirteenth Amendment in 1865. Encourages critical thinking and geographical understanding, and offers exercises in writing, discussion, and computer applications.

HIS 102H Honors United States History to 1877 (3 Credits)

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, and offers exercises in writing, discussion, and computer applications.

HIS 103 United States History Since 1865 (3 Credits)

A comprehensive survey of American history from the passage of the Thirteenth Amendment in 1865 to the present. Encourages critical thinking and geographical understanding, and offers exercises in writing, discussion, and computer applications.

HIS 110 Themes in African American History (3 Credits)

Themes in African American history is a gateway to the interdisciplinary study of African American history and culture that explores different epochs from their roots in Africa through today. The course introduces foundational themes, concepts, people, and movements while nurturing critical thinking, writing, and oral competency.

HIS 110H Hnrs Themes in African American History (3 Credits)

Themes in African American history is a gateway to the interdisciplinary study of African American history and culture that explores different epochs from their roots in Africa through today. The course introduces foundational themes, concepts, people, and movements while nurturing critical thinking, writing, and oral competency.

HIS 205 Introduction to the Study of History (3 Credits)

HIS 205, a required course for history majors to be taken in the sophomore year, is designed to introduce students to the meaning and problems of historical study and to the skills required to conceptualize, analyze, and synthesize historical materials.

HIS 305 3 Rs of Hstry Reading/Writing/Research (3 Credits)

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 Age of Encounter, 1415-1607 (3 Credits)

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 Colonial America (3 Credits)

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 American Revolution (3 Credits)

This course examines the era of the American Revolution from the passage of the Stamp Act in 1765 to the ratification of the U.S. 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 U.S. Early National Period, 1788-1815 (3 Credits)

This course examines the development of the federal government from the ratification of the U.S. 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 Antebellum America, 1815-1850 (3 Credits)

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 Civil War & Reconstruction (3 Credits)

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 320 Independent Latin America (3 Credits)

Survey of the political, social, economic, and cultural history of the Latin American nations since the early nineteenth century.

HIS 328 History of Virginia (3 Credits)

This course traces the history of Virginia from Native American kingdoms through colonial development to the present.

HIS 335 African American History (3 Credits)

Survey of African American history from its African origins to the abolition of slavery in 1865. Emphasizes critical thinking, writing, and oral competency.

HIS 335H Hrs African American History to 1865 (3 Credits)

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 African American History Since 1865 (3 Credits)

Survey of African American history from the abolition of slavery in 1865 to the present. Emphasizes critical thinking, writing, and oral competency.

HIS 336H Hrs African American History From 1865 (3 Credits)

Survey of African American history from the abolition of slavery in 1865 to the present. Emphasizes critical thinking, writing, and oral competency.

HIS 337 United States Women's History (3 Credits)

This course examines women's participation in the founding, development, and growth of the United States with special focus on women's struggle for legal, economic, and social equality.

HIS 341 Great Britain Since 1832 (3 Credits)

This course examines 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 346 Twentieth-Century Europe (3 Credits)

This course considers 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 the Cold War.

HIS 348 Ancient History (3 Credits)

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 350 Borders and Moving Peoples (3 Credits)

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, and construction of the people.

HIS 350H Honors Borders and Moving Peoples (3 Credits)

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, and construction of the people.

HIS 361 Readings in Latin American History (3 Credits)

Intensive directed reading for exceptionally able students.

HIS 365 Caribbean History (3 Credits)

This course examines cultures and comparative historical experiences in the Caribbean, from early modern European expansion to the present. It analyzes 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 Early African History/Cultures to 1600 (3 Credits)

This course introduces students to the political, social, economic, and cultural history of Africa to the 17th century. Students explore several themes to understand the vast diversity of African peoples and cultures before European colonial rule. The course emphasizes the interdisciplinary richness of Africa's historical study, drawing interpretive paradigms from anthropology, archaeology, ethnography, religion, ethno-linguistics, and geography.

HIS 371 African History/Cultures 1600-PRESENT (3 Credits)

This course examines the history and cultures of Africa from the 17th century to the present. Emphasis on the internal dynamics of African societies before European colonization, Africa and the global maritime networks, European colonization and Africans' response, end of colonization, challenges of post-colonial nation building, apartheid in South Africa, and Africa's recovery and economic growth in the age of globalization.

HIS 371H Hrs African Hist/Cultures 1600-PRESENT (3 Credits)

This course examines the history and cultures of Africa from the 17th century to the present. Emphasis on the internal dynamics of African societies before European colonization, Africa and the global maritime networks, European colonization and Africans' response, end of colonization, challenges of post-colonial nation building, apartheid in South Africa, and Africa's recovery and economic growth in the age of globalization.

HIS 372 African Diaspora History and Culture (3 Credits)

Drawing on multi-disciplinary perspectives and materials from history, arts, humanities, this course focuses on the worldwide migrations, societies, and cultures of African-descended peoples as they have formed communities and interacted with other communities.

HIS 377 Black Leaders, Then and Now (3 Credits)

Survey of the role of Black leaders in American history from the period of exploration and discovery to the present.

HIS 380 American Military History (3 Credits)

This course examines the development of the American military establishment, policies, and strategies from the American Revolution to the present.

HIS 380H Honors American Military History (3 Credits)

This course examines the development of the American military establishment, policies, and strategies from the American Revolution to the present.

HIS 404 World History for Wh Teachers (3 Credits)

This course has three 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 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 418 Southern History (3 Credits)

Survey of the social, political, and economic development of the Southern United States.

HIS 439 Black Lives Matter: Long Civil Right (3 Credits)

Focuses on the long struggle for racial justice in America and African American resistance to segregation and discrimination, leading to Civil Rights and the Black Power movements. It interrogates how black American activists engaged in and aligned themselves with international struggles for human rights as well as other issues facing black people across the Diaspora. The course will compare historic and current social justice movements.

HIS 444 African Diaspora History and Culture (this Course Changed to His 372, See Above) (3 Credits)

Drawing on scholarship rooted in various academic disciplines, including history, anthropology, literature, sociology, art history and performance studies, this course provides an introduction to selected themes in the rapidly expanding field of African Diaspora Studies.

HIS 446 Colonial Latin American (3 Credits)

Study of the leading Native American cultures of 1500 AD, their conquest by Iberian adventurers, the making of colonial institutions and cultures, and the eventual origins of independence movements.

HIS 448 Slavery in the Atlantic Basin (3 Credits)

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 490 Special Topics (3 Credits)

Opportunities to study and examine historical problems of special interest.

HIS 490A Special Topics in History (3 Credits)

Opportunities to study and examine historical problems of special interest.

HIS 490E Special Topics in History (3 Credits)

Opportunities to study and examine historical problems of special interest.

HIS 490I Haiti and Atlantic World (3 Credits)

Opportunities to study and examine historical problems of special interest.

HIS 490M Special Topics: Black Lives Matter (3 Credits)

Opportunities to study and examine historical themes of special interest related to Black Lives Matter.

HIS 490Y Borders/Bureaucracies/Big Brother (3 Credits)

Opportunities to study and examine historical problems of special interest.

HIS 490Z The History of Love and Marriage (3 Credits)

An examination of the history of love and marriage in American society from the colonial period through the 20th century. Students will read primary and secondary sources on a range of topics, such as companionate marriage, same-sex marriage, and interracial marriage.

HIS 492 Race/Gender in Cuba/Latin America (3 Credits)

Upper-level history seminar examines two themes of the African Diaspora in Latin America: race and gender, placing Latin America within the context of Atlantic history and suggesting ways in which comparative historical study can provide insight into interdisciplinary critical race and gender studies. Focuses on the example of Cuba, a society that was profoundly impacted by colonialism, slavery, discrimination, and revolution.

HIS 492H Hnrs Race/ Gender in Cuba/Latin America (3 Credits)

Upper-level history seminar examines two themes of the African Diaspora in Latin America: race and gender, placing Latin America within the context of Atlantic history and suggesting ways in which comparative historical study can provide insight into interdisciplinary critical race and gender studies. Focuses on the example of Cuba, a society that was profoundly impacted by colonialism, slavery, discrimination, and revolution.

HIS 494 Internship (3 Credits)

Development of knowledge and skills in fields related to history, for example museum work or digital projects. A minimum number of clock hours in approved placement is required.

HIS 497 Intro to Historical Research (3 Credits)

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.

Humanities (HUM)

HUM 210 Humanities (3 Credits)

Study of the creative expression of the Westernworld from the Italian Renaissance to the twentieth century. Emphasis on the philosophical and social matrix out of which these artistic expressions have developed.

HUM 210H Honors Humanities (3 Credits)

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 Humanities (3 Credits)

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 social structures of the people.

HUM 211H Honors Humanities (3 Credits)

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 social structures of the people.

Industrial Management Technology (IMT)

IMT 170 Introduction to Technology (1 Credits)

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 Industrial Safety & Management (3 Credits)

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 Industrial Spec & Tech Documentation (3 Credits)

Development of proficiency in writing technical reports through collecting, organizing, and presenting materials in specialized areas.

IMT 303 Internship in Technology (3 Credits)

Experience in developing and refining skills that require 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 413 Project Management (3 Credits)

A thorough coverage of all aspects of managing a project. The course includes project planning, organizing, creating project organization control, and final project completion activities. Participant gains 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 420 Labor & Industrial Relations (3 Credits)

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 445 Statistical Quality Control (3 Credits)

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.

Information Technology (ITE)

ITE 111 Information Technology Principles (3 Credits)

An introductory course that exposes students to the academic discipline of Information Technology (IT). Pervasive IT themes, such as IT history, organizational, social, and ethical issues, and relationship of IT to other computing disciplines, will be covered.

ITE 195 Introduction to Internet Programming (3 Credits)

Introduction to high level internet programming techniques and Java with emphasis on internet programming basics for creating static Web pages and dynamic Web pages in HTML and XML through the addition of scripts. Utilizes the latest Java Development Kit.

ITE 211 It Operating Systems (3 Credits)

An introduction to the basics of computer operating systems including file systems, configuration, interprocess communication, security, administration, interfacing, multitasking, and performance analysis.

ITE 311 Fundamentals of Networking (3 Credits)

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.

Journalism (JRN)

JRN 210 Advertising Principles (3 Credits)

Introduction to the basic principles of advertising and its practice.

JRN 220 Basic Writing (3 Credits)

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 News Writing (3 Credits)

Introduction to the fundamentals of news evaluation, gathering, and writing with special emphasis on newspaper style.

JRN 240 Principles of Public Relations (3 Credits)

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 Digital Photography (3 Credits)

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 Multiculturalism and Mass Media (3 Credits)

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 Advertising/Public Campaigns (3 Credits)

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 330 Copy Editing (3 Credits)

Study of the fundamentals of copy editing, headline writing, re-writing and general copy desk work.

JRN 341 Public Relations Practice (3 Credits)

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 Promotional Writing (3 Credits)

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 fundraising.

JRN 493 Internship I (3 Credits)

Experience working for a newspaper or media company in public relations or with an advertising department or agency. (Practicum is an on-campus position. Internship is an off-campus position.)

JRN 497 Directed Research (3 Credits)

Individual study and/or research in journalism under the guidance of a journalism instructor.

Mass Communication/Journalism (MCM)

MCM 111 Media and Society (3 Credits)

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 250 Television Production (3 Credits)

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 Introduction to Media Writing (3 Credits)

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 Film History (3 Credits)

Summary of motion pictures as a distinctive medium of expression and communication including the techniques, physical basis, and history of silent films to sound films of the leading genres and the directors who illustrated selected phases of film evolution.

MCM 310 History of Mass Communications (3 Credits)

Study of the origin and development of mass media in the United States. Emphasis on the press, radio, television, motion pictures, and social media.

MCM 310H Honors History of Mass Communications (3 Credits)

Study of the origin and development of mass media in the United States. Emphasis on the press, radio, television, motion pictures, and social media.

MCM 315 Interviewing (3 Credits)

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 315H Honors Interviewing (3 Credits)

Study of the identification and utilization of tools necessary in gathering information, setting up, preparing, and conducting interviews for broadcast. Emphasis on organization of information for use in the media and allied industry.

MCM 330 Electronic Field Production & Editing (3 Credits)

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 Television Directing (3 Credits)

Development of television program producing and directing with emphasis on leadership skills and advanced audio-visual equipment instruction through specific laboratory exercise.

MCM 350H Honors Tv Directing (3 Credits)

Development of television program producing and directing with emphasis on leadership skills and advanced audio-visual equipment instruction through specific laboratory exercise.

MCM 351 Intro to Broadcast & Film Criticism (3 Credits)

Analysis of the historical, aesthetic, and critical aspects of broadcast programs and motion pictures. Attendance and viewing of films and evaluations required.

MCM 363 Audio Production (3 Credits)

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 370 Podcasting Praxis (4 Credits)

Study of the history of African American auditory storytelling, how podcasting changed it, and the praxis of podcasting. The course is designed to enable students to do preproduction, production, and postproduction of a podcast show including, but not limited to, Africana storytelling techniques, interviewing, hosting, nonlinear editing, and equipment used to produce a podcast with episodes.

MCM 390 Global Media (3 Credits)

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 410 Artificial Intelligence in Media (3 Credits)

This course explores the applications and implications of AI technology in the media industry. Students will learn about the basics of AI and how it is being used in media-related fields. Students will also learn practical skills such as how to use ChatGPT and AI video generators.

MCM 420 Intercultural Communication (3 Credits)

This course introduces the learner to the process of understanding intercultural communication. 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 Media Law (3 Credits)

Examination of the various laws that affect mass communication in the United States, including licensing, operation, programming, advertising, defamation, privacy, copyright and other related topics.

MCM 445 Media Ethics (3 Credits)

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 445H Honors Media Ethics (3 Credits)

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 Media Theory and Research (3 Credits)

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 Contemporary Issues in Media (3 Credits)

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 Advanced Television Production (3 Credits)

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 476 Media Sales (3 Credits)

Study of principles, structures, and practices of broadcast, cable, satellite programming, and new media and sales. Emphasis on mid-management areas, which are crucial to the successful operation of all broadcast properties.

MCM 480 Social Media (3 Credits)

Through a combination of theoretical and practical approaches, students will learn how to develop effective social media strategies, create engaging content, and build an online presence for themselves or their organization. They will also explore the different types of social media platforms available, including Facebook, Twitter, Instagram, and LinkedIn.

MCM 485 Media Technologies (3 Credits)

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 Media Management (3 Credits)

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 Special Topics in Media (1-3 Credits)

Coverage of current topics in media, including the roles of media, ethics in media, media criticism, and the marketing concept.

MCM 490B Special Topics in Media (3 Credits)

Opportunities to study and examine media-related and special-interest issues in culture, society, history, economy, and politics.

MCM 491 Introduction to the Internet/Web Page (3 Credits)

Introduction to HTML writing and web page design and creation of a multi-page website targeted to a particular audience. Requires usage of search engines to find relevant information and evaluate similar sites for content, structure, quality of information, purpose, and bias.

MCM 496 Internship (3 Credits)

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)

MTH 102 Essentials of Algebra (4 Credits)

Topics include operations of real numbers, ratios, proportions, percents, order of operations, linear and quadratic equations, inequalities, graphing, operation 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 Mathematics in General Education (3 Credits)

Emphasis on global, unifying ideas in mathematics and the connections between contemporary mathematics and modern society. Topics are 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 103H Honors Mathematics in General Education (3 Credits)

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 Intermediate Algebra (3 Credits)

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 Pre-Calculus for Business Majors (3 Credits)

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 Calculus for Business Majors (3 Credits)

Introduction to elementary calculus including limits, continuity, differentiation, integration, and applications in business.

MTH 141 Elements of Mathematics for Teachers I (3 Credits)

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 Elements of Mathematics for Teachers II (3 Credits)

Continued treatment of the modern mathematics curricula for prospective school teachers. Emphasis on geometry and measurement.

MTH 151 College Algebra (3 Credits)

This course emphasizes the study of basic algebra, stressing fundamental concepts and reasoning used in mathematics and the sciences. Students are expected to bring to the course knowledge of the essentials of elementary and intermediate algebra. Emphasis is placed on those skills necessary for calculus sequences.

MTH 151B College Algebra for Biology Majors (3 Credits)

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.

MTH 153 College Algebra & Trigonometry (3 Credits)

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, trigonometric identities, and trigonometric applications necessary for the study of advanced subjects in mathematics and the sciences.

MTH 153H Honors College Algebra & Trigonometry (3 Credits)

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, trigonometric identities, and trigonometric applications necessary for the study of advanced subjects in mathematics and the sciences.

MTH 184 Calculus I (4 Credits)

This is a first course in the essentials of Calculus, necessary for more advanced study in the natural sciences and mathematics. Topics include limits, continuity, derivatives and applications, antiderivatives, and the Fundamental Theorem of Calculus. The course integrates some calculus applications with computer activities.

MTH 184H Honors Calculus I (4 Credits)

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. The course integrates some calculus applications with computer activities.

MTH 242 History of Mathematics (3 Credits)

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 Elementary Statistics Concepts (3 Credits)

Introduction to statistics including graphical data representation, basic probability concepts, sampling and expectation, confidence interval, and hypothesis testing for sample mean and proportion.

MTH 250H Honors Elementary Statistics Concepts (3 Credits)

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 Calculus II (4 Credits)

Applications of definite integrals, the calculus of transcendental functions, infinite series, and integration techniques. Some topics are integrated with computer activities.

MTH 251H Honors Calculus II (4 Credits)

Applications of definite integrals, the calculus of transcendental functions, infinite series, and integration techniques. Some topics are integrated with computer activities.

MTH 252 Calculus III (4 Credits)

Investigation of calculus concepts at the intermediate level including polar coordinates, vectors, and the calculus of several variables.

MTH 252H Honors Calculus III (4 Credits)

This course is a continuation of Calculus II (MTH 251). The course investigates calculus concepts at the intermediate level designed for mathematics and science majors. Topics include polar coordinates, vector analysis, and the calculus of several variables on an honors level.

MTH 273 Mathematical Foundations (3 Credits)

This course looks at fundamental topics to further study in mathematics. Topics include basic concepts of set theory, basic concepts of logic, basic concepts of algebra, methods of mathematical proof, relations and functions, the concept of limit and continuity, study of the real number set and its topology, and some topics from calculus.

MTH 300 Linear Algebra (3 Credits)

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 300H Honors Linear Algebra (3 Credits)

This course is an introduction to basic concepts, techniques, and elementary applications of linear algebra. Topics to be covered are matrices, linear systems, Gaussian elimination, vector and vector spaces, linear independence, linear transformations, eigenvalues and eigenvectors, finite-dimensional spectrum theory on an honors level.

MTH 310 Discrete Mathematics (3 Credits)

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 Modern Geometry I (3 Credits)

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 331 Algebraic Structures (3 Credits)

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 Probability & Statistics I (3 Credits)

Given the importance of probability and statistics in the research fields of most sciences, this course has been designed to serve as a calculus-based introduction to fundamental concepts in probability and statistics. The course places particular emphasis on the fundamental concepts of probability and presents basic statistics concepts as an extension of these concepts.

MTH 351H Honors Probability & Statistics I (3 Credits)

Given the importance of probability and statistics in the research fields of most sciences, this course has been designed to serve as a calculus-based introduction to fundamental concepts in probability and statistics. The course places particular emphasis on the fundamental concepts of probability and presents basic statistics concepts as an extension of these concepts.

MTH 352 Probability & Statistics II (3 Credits)

Given the importance of probability and statistics in the research fields of most sciences, this course has been designed to serve as a calculus-based introduction to some advanced concepts in probability and statistics. Given that it is the second course in the sequence, the course also provides reinforcement of the fundamental concepts covered in MTH 351. While building upon these fundamentals, this course will place particular emphasis on the concepts of statistical inference and experimental design.

MTH 371 Discrete Mathematical Structures (4 Credits)

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 Differential Equations (3 Credits)

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 Advanced Vector Calculus (3 Credits)

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 Introduction to Applied Mathematics (3 Credits)

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 401 Numerical Analysis I (3 Credits)

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 Numerical Analysis II (3 Credits)

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 Abstract Algebra (3 Credits)

Continuation of MTH 331. Topics include a more advanced discussion of groups, rings, fields, homomorphism, isomorphism, and automorphism.

MTH 454 Experimental Designs (3 Credits)

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 472 Advanced Calculus II (3 Credits)

Rigorous treatment of functions of one and several variables, improper integrals, sequences, infinite series, uniform convergence, and applications. Students are expected to improve their ability to work in an abstract setting using precise definitions and formal proofs and to present their work in class.

MTH 473 Real Analysis (3 Credits)

Offers a solid theoretical foundation for a careful study of the real number system and functions defined on this system. Provides the substance and basis for enabling students to understand much of traditional calculus, including proofs of many of the standard results on limits of sequences, limits of functions, continuity, uniform continuity, sequences and series of functions, integrals, and approximations.

MTH 474 Complex Variables (3 Credits)

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 Topics in Applied Mathematics (3 Credits)

This course is a continuation of Math 382, Introduction to Applied Mathematics I. It is 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 engineering. The course integrates some applications of partial differential equations with computer activities.

MTH 484H Honors Topics in Applied Mathematics (3 Credits)

This course is a continuation of Math 382, Introduction to Applied Mathematics I. It is 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 engineering. The course integrates some applications of partial differential equations with computer activities.

MTH 496 Mathematics Seminar I (2 Credits)

Culminating course designed to review and fortify knowledge of essential mathematics concepts and to synthesize mathematical 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 academic community. Course includes a comprehensive examination used to assess the objectives of the core mathematics courses.

MTH 497 Mathematics Seminar II (2 Credits)

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.

Military Science and Leadership (MSL)

MSL 101 Fundamentals of Leadership/Management (2 Credits)

Introduces cadets to personal challenges and competencies 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 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 Basic Drill & Ceremony Module (1 Credits)

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 Basic Leadership (2 Credits)

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 on recruitment and retention of cadets. Cadre role models and building of stronger relationships among cadets through common experience and practical interaction are critical aspects.

MSL 102D Basic Drill & Ceremony Module (1 Credits)

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 Advanced Leadership/Management (2 Credits)

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 on continued development of knowledge of leadership values and attributes through an understanding of Army rank, structure, and duties and basic aspects of land navigation and squad tactics.

MSL 201D Basic Drill & Ceremony Module (1 Credits)

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 Advanced Leadership/Management (2 Credits)

Examines the challenges of leading tactical teams in the COE. Highlights dimensions of terrain analysis, patrolling, and operation orders. Further study of the theoretical basis of the Army leadership framework explores the dynamics of adaptive leadership in the context of military operations. Provides a smooth transition into MSL 301. Cadets develop greater self-awareness as they assess their own leadership styles and practice communication and team building skills.

MSL 202D Basic Drill & Ceremony Module (1 Credits)

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 301 Advanced Leadership/Management (3 Credits)

Challenges cadets to study, practice, and evaluate adaptive leadership skills through challenging scenarios related to squad tactical operations. Cadets receive systematic and specific feedback on their leadership attributes and actions. Based on such feedback and self-evaluations, cadets continue to develop their leadership and critical thinking abilities. Focuses on developing cadets' tactical leadership abilities to enable them to succeed at ROTC's summer Leadership Development & Assessment Course (LDAC).

MSL 301D Advanced Drill & Ceremony Module (1 Credits)

Practical application of land navigation, physical training, marksmanship, small-arms training, and squad and platoon tactics. (Leadership Laboratory is required for continued advancement in ROTC.)

MSL 302 Advanced Leadership/Management (3 Credits)

Uses increasingly intense situational leadership challenges to build cadet awareness and skills in leading small units. Skills in decision making, persuading, and motivating team members when "under fire" are explored, evaluated, and developed. Aspects of military operations are reviewed as a means of preparing for the ROTC Leadership Development & Assessment Course (LDAC). Cadets are expected to apply basic principles of the Law of Land Warfare, Army training, and motivation to troop leading procedures. Emphasis on conducting military briefings and developing proficiency in Garrison operation orders.

MSL 302D Advanced Drill & Ceremony Module (1 Credits)

Practical application of land navigation, physical training, marksmanship, small-arms training, and squad and platoon tactics prepare cadets for Army ROTC Advanced Camp at Fort Lewis, WA. (Leadership Laboratory is required for continued advancement in ROTC.)

MSL 401 Theory and Dynamics of Military Team (3 Credits)

Develops cadet proficiency in planning, executing, and assessing complex operations, functioning as a member of a staff, and providing performance feedback to subordinates. Cadets assess risk, make ethical decisions, and lead fellow ROTC cadets. Lessons on military justice and personnel processes prepare cadets to make the transition to Army officers. MSL IV cadets analyze, evaluate, and instruct cadets at lower levels. Classroom and battalion leadership experiences are designed to prepare cadets for their first unit of assignment.

MSL 401D Advanced Drill & Ceremony Module (1 Credits)

Practical application of the development of leadership skills to ensure the successful transition from Cadet to Second Lieutenant. (Successful completion of 401D is required for commissioning.)

MSL 402 Theory and Dynamics of Military Team (3 Credits)

Explores dynamics of leading in complex situations of current military operations in COE. Cadets examine differences in customs and courtesies, military law, principles of war, and rules of engagement in face of international terrorism. Explores aspects of interacting with nongovernmental organizations, civilians on the battlefield, and host nation support. Emphasis on preparing cadets for their first unit of assignment, using case studies, scenarios, and "What Now, Lieutenant?" exercises to prepare cadets to face the complex ethical and practical demands of leading as commissioned officers in the U.S. Army.

MSL 402D Advanced Drill & Ceremony Module (1 Credits)

Practical application of development of leadership skills to ensure the successful transition from Cadet to Second Lieutenant. (Successful completion of 402D is required for commissioning.)

MSL 402H Honors Theory/Dynamics of Military Team (3 Credits)

Explores dynamics of leading in complex situations of current military operations in COE. Cadets examine differences in customs and courtesies, military law, principles of war, and rules of engagement in face of international terrorism. Explores aspects of interacting with nongovernmental organizations, civilians on the battlefield, and host nation support. Emphasis on preparing cadets for their first unit of assignment, using case studies, scenarios, and "What Now, Lieutenant?" exercises to prepare cadets to face the complex ethical and practical demands of leading as commissioned officers in the U.S. Army.

MSL 421 Independent Studies (3 Credits)

Military research and/or professional reading and military book review designed to develop a cadet's professional reading list and prepare for future military service.

Music (MUS)

MUS 100B Piano (0 Credits)

Course has a (0) credit hour but (1) tuition hour for billing.

MUS 103 Recitals Class (0 Credits)

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 104 Recitals Class (0 Credits)

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 110A Band (1 Credits)

Provides enriching musical opportunities to develop instrumental performance skills in a group setting. Band ensembles include Spartan Legion Marching Band and Symphonic Wind Ensemble.

MUS 110D Concert Choir (1 Credits)

The Concert Choir promotes the mastery of music from all periods and styles while enhancing musicianship and an appreciation of choral singing for music majors and non-music majors alike.

MUS 110F Jazz Ensemble (1 Credits)

The Instrumental Jazz Ensemble and Vocal Jazz Ensemble bring collaborative musical ingenuity together with extraordinary showmanship to create performance groups that highlight the jazz idiom.

MUS 110N Pep Band (1 Credits)

A fun-filled ensemble comprised of instrumentalists who play at athletic events to promote crowd enthusiasm as well as provide entertainment.

MUS 110P Guitar Ensemble (1 Credits)

Guitar Ensemble provides students of any skill level opportunities to enhance music reading and technical abilities on acoustic guitar or bass in a variety of styles.

MUS 111A Band (1 Credits)

Provides enriching musical opportunities to develop performance skills in a group setting. Band ensembles include Spartan Legion Marching Band and Symphonic Wind Ensemble.

MUS 111D Concert Choir (1 Credits)

The Concert Choir promotes the mastery of choral music from all periods and styles while enhancing musicianship and an appreciation of choral singing for music majors and non-music majors alike.

MUS 111F Jazz Ensemble (1 Credits)

The Instrumental Jazz Ensemble and Vocal Jazz Ensemble bring collaborative musical ingenuity together with extraordinary showmanship to create performance groups that highlight the jazz idiom.

MUS 111P Guitar Ensemble (1 Credits)

Guitar Ensemble provides students of any skill level opportunities to enhance music reading and technical abilities on acoustic guitar or bass in a variety of styles.

MUS 121A Voice Minor (1 Credits)

Emphasis on tone production and vocal technique. Exposure to a variety of vocal literature and styles.

MUS 121B Piano Minor (1 Credits)

The first in a sequence of four piano courses required for all music majors, except piano majors, as a secondary instrument. The purpose of the course is to assist in the development of basic piano skills necessary for application in the broad range of music professions.

MUS 121C Organ Minor (1 Credits)

The course of study includes basic organ technique and covers approximately half of the material required for MUS 125C (Applied Organ Major).

MUS 121D Brasswind Minor (1 Credits)

Emphasis on correct tone production and playing techniques. Exposure to a variety of literature for the particular woodwind minor instrument.

MUS 121E Woodwind Minor (1 Credits)

Emphasis on correct tone production and playing techniques. Exposure to a variety of literature for the particular woodwind minor instrument.

MUS 121F Strings Minor (1 Credits)

Emphasis on correct tone production and playing techniques. Exposure to a variety of literature for the particular string minor instrument.

MUS 121G Percussion Minor (1 Credits)

Emphasis on correct tone production and playing techniques. Exposure to a variety of literature for the particular percussion minor instrument.

MUS 122A Voice Minor (1 Credits)

A continuation of MUS 121A with more advanced emphasis on correct tone production and playing techniques. Exposure to a variety of literature for the particular string minor instrument.

MUS 122B Piano Minor (1 Credits)

The second in a sequence of four piano courses required for all music majors, except piano majors, as a secondary instrument. The course continues the development of basic piano skills necessary for application in the broad range of music professions.

MUS 122F Strings Minor (1 Credits)

A continuation of MUS 121F with more advanced emphasis on correct tone production and playing techniques. Exposure to a variety of literature for the particular string minor instrument.

MUS 122G Percussion Minor (1 Credits)

A continuation of MUS 121G with more advanced emphasis on correct tone production and playing techniques. Exposure to a variety of literature for the particular percussion minor instrument.

MUS 125A Applied Major/Voice (2 Credits)

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 Applied Major/Piano (2 Credits)

Study of major scales (24 octaves), hands together, minor scales, hands separate; selected studies of Czerny, Hanon, Burgmuller, sonatas of Clementi, Kuhlau, Beethoven; seventh chords, arpeggios.

MUS 125D Applied Major/Brasswind (2 Credits)

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 flexibility

MUS 125E Applied Major/Woodwind (2 Credits)

Emphasis on basic problems of embouchure, fingering, breathing and tonguing facility, and control.

MUS 125F Applied Major/Strings (2 Credits)

Study of basic violin technique, left-hand position, and bow arm techniques; exercises in first position; and two octave major scales in first position.

MUS 125G Applied Major/Percussion (2 Credits)

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 126A Applied Major/Voice (2 Credits)

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

MUS 126B Applied Major/Piano (2 Credits)

Study of major scales (24 octaves), hands together, minor scales, hands separate; selected studies of Czerny, Hanon, Burgmuller, sonatas of Clementi, Kuhlau, Beethoven; seventh chords, arpeggios.

MUS 126D Applied Major/Brasswind (2 Credits)

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 flexibility

MUS 126E Applied Major/Woodwind (2 Credits)

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

MUS 126F Applied Major/Strings (2 Credits)

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 Etu

MUS 126G Applied Major/Percussion (2 Credits)

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 Music Literature (2 Credits)

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 132 Music Literature (2 Credits)

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 Music Fundamentals (3 Credits)

Study of the fundamentals of music and elementary theory. Does not fulfill graduation requirements for any music degree. (This class is offered in lieu of passing the Theory Placement Test.)

MUS 141 Sight-Singing & Ear Training (2 Credits)

Study of Theory I and II including sight-singing; melodic and harmonic dictation; scales, intervals and triads; and the analyzation of melodies.

MUS 142 Sight-Singing & Ear Training (2 Credits)

Study of Theory I and II including sight-singing; melodic and harmonic dictation; scales, intervals and triads; and the analyzation of melodies.

MUS 145 Harmony and Keyboard (2 Credits)

Study of Theory I and 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 146 Harmony and Keyboard (2 Credits)

Study of Theory I and 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 Elementary Conducting (2 Credits)

Introduction to the art of conducting with emphasis on mastery of fundamental beat patterns.

MUS 161 String Class (1 Credits)

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 203 Recitals Class (0 Credits)

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 204 Recitals Class (0 Credits)

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 210A Band (1 Credits)

Provides enriching musical opportunities to develop instrumental performance skills in a group setting. Band ensembles include Spartan Legion Marching Band and Symphonic Wind Ensemble.

MUS 210D Concert Choir (1 Credits)

The Concert Choir promotes the mastery of choral music from all periods and styles while enhancing musicianship and an appreciation of choral singing for music majors and non-music majors alike.

MUS 210F Jazz Ensemble (1 Credits)

The Instrumental Jazz Ensemble and Vocal Jazz Ensemble bring collaborative musical ingenuity together with extraordinary showmanship to create performance groups that highlight the jazz idiom.

MUS 210N Pep Band (1 Credits)

A fun-filled ensemble comprised of instrumentalists who play at athletic events to promote crowd enthusiasm as well as provide entertainment.

MUS 211A Band (1 Credits)

Provides enriching musical opportunities to develop instrumental performance skills in a group setting. Band ensembles include Spartan Legion Marching Band and Symphonic Wind Ensemble.

MUS 211D Concert Choir (1 Credits)

The Concert Choir promotes the mastery of choral music from all periods and styles while enhancing musicianship and an appreciation of choral singing for music majors and non-music majors alike.

MUS 211F Jazz Ensemble (1 Credits)

The Instrumental Jazz Ensemble and Vocal Jazz Ensemble bring collaborative musical ingenuity together with extraordinary showmanship to create performance groups that highlight the jazz idiom.

MUS 211G Percussion Ensemble (1 Credits)

Provides enriching musical opportunities for percussionists to develop performance skills in a group setting.

MUS 221A Voice Minor (1 Credits)

A continuation of MUS 122A with more advanced emphasis on correct tone production and playing techniques. Exposure to a variety of literature for the particular string minor instrument.

MUS 221B Piano Minor (1 Credits)

The third in a sequence of four piano courses required for all music majors, except piano majors, as a secondary instrument. The course continues the development of basic piano skills necessary for application in the broad range of music professions.

MUS 221G Percussion Minor (1 Credits)

Percussion minor for music majors only.

MUS 222A Voice Minor (1 Credits)

A continuation of MUS 221A with more advanced emphasis on correct tone production and playing techniques. Exposure to a variety of literature for the particular string minor instrument.

MUS 222B Piano Minor (1 Credits)

The fourth in a sequence of four piano courses required for all music majors, except piano majors, as a secondary instrument. The course continues the development of basic piano skills necessary for application in the broad range of music professions.

MUS 222G Percussion (1 Credits)

Percussion minor for music majors only.

MUS 225A Applied Major/Voice (2 Credits)

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 Applied Major/Piano (2 Credits)

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's Little Preludes and Fugues or Two-Part Inventions; selected compositions of other periods. Passing the Piano Facility Examination required.

MUS 225D Applied Major/Brasswind (2 Credits)

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; s

MUS 225E Applied Major/Woodwind (2 Credits)

Emphasis on technical development, finger all tone control; Giampieri Caprices; Kroepsch Daily Studies, major scales in thirds.

MUS 225F Applied Major/Strings (2 Credits)

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 Applied Major/Percussion (2 Credits)

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 226A Applied Major/Voice (2 Credits)

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 226B Applied Major/Piano (2 Credits)

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; selecte

MUS 226D Applied Major/Brasswind (2 Credits)

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; s

MUS 226E Applied Major/Woodwind (2 Credits)

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

MUS 226F Applied Major/Strings (2 Credits)

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 Etu

MUS 226G Applied Major/Percussion (2 Credits)

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 234 African American Music (3 Credits)

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 evidence and psychological factors.

MUS 234H Honors African American Music (3 Credits)

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. Emphasizes the types and elements of African American folk music.

MUS 240 Progressive Harmony (3 Credits)

Practice in writing and analyzing contemporary chord progressions with emphasis on keyboard skills, ear training, and creative writing.

MUS 241 Sight-Singing & Ear Training (2 Credits)

Study of aural non-diatonic exercises, advanced sight-singing, advanced melodic and harmonic dictation.

MUS 242 Sight-Singing & Ear Training (1 Credits)

Study of aural non-diatonic exercises, advanced sight-singing, advanced melodic and harmonic dictation.

MUS 243 Melody and Improvisation (3 Credits)

Provides guidelines for the disciplines of jazz improvisation through the use of melodic, harmonic, rhythmic and structured procedures.

MUS 245 Harmony and Keyboard (2 Credits)

More advanced keyboard harmony and part writing, including modulation, augmented sixth chords, and Neapolitan 6th chord. Harmonic and formal analysis and writing for various combinations of instruments in the second semester. (Meets three hours per week.)

MUS 246 Harmony and Keyboard (2 Credits)

More advanced keyboard harmony and part writing, including modulation, augmented sixth chords, and Neapolitan 6th chord. Harmonic and formal analysis and writing for various combinations of instruments in the second semester. (Meets three hours per week.)

MUS 260 Band Instrument Survey (1 Credits)

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 Percussion Class (1 Credits)

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 Practical Application/Electronic Music (3 Credits)

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 Vocal Diction (1 Credits)

Study of standard pronunciations for texts in English and Italian vocal literature using the International Phonetic Alphabet (IPA). (Meets two hours per week.)

MUS 272 Vocal Diction (1 Credits)

Study of standard pronunciations for texts in French and German vocal literature using the International Phonetic Alphabet (IPA). (Meets two hours per week.)

MUS 273 Voice Class (1 Credits)

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 Music Appreciation (3 Credits)

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 301H Honors Music Appreciation (3 Credits)

Honors Music Appreciation is designed to introduce non-music majors to the major elements of music and the primary musical periods of traditional classical music. The course emphasizes active music listening and research.

MUS 303 Recitals Class (0 Credits)

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 304 Recitals Class (0 Credits)

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 310A Band (1 Credits)

Provides enriching musical opportunities to develop instrumental performance skills in a group setting. Band ensembles include Spartan Legion Marching Band and Symphonic Wind Ensemble.

MUS 310D Concert Choir (1 Credits)

The Concert Choir promotes the mastery of choral music from all periods and styles while enhancing musicianship and an appreciation of choral singing for music majors and non-music majors alike.

MUS 310F Jazz Ensemble (1 Credits)

The Instrumental Jazz Ensemble and Vocal Jazz Ensemble bring collaborative musical ingenuity together with extraordinary showmanship to create performance groups that highlight the jazz idiom.

MUS 311A Band (1 Credits)

Provides enriching musical opportunities for percussionists to develop performance skills in a group setting.

MUS 311D Concert Choir (1 Credits)

The Concert Choir promotes the mastery of choral music from all periods and styles while enhancing musicianship and an appreciation of choral singing for music majors and non-music majors alike.

MUS 311F Jazz Ensemble (1 Credits)

The Instrumental Jazz Ensemble and Vocal Jazz Ensemble bring collaborative musical ingenuity together with extraordinary showmanship to create performance groups that highlight the jazz idiom.

MUS 321A Voice Minor (1 Credits)

A continuation of MUS 122A with more advanced emphasis on correct tone production and playing techniques. Exposure to a variety of literature for the particular string minor instrument.

MUS 321B Piano Minor (1 Credits)

The course continues the development of basic piano skills necessary for application in the broad range of music professions.

MUS 322B Piano Minor (1 Credits)

The course continues the development of basic piano skills necessary for application in the broad range of music professions.

MUS 325A Applied Major/Voice (2 Credits)

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

MUS 325B Applied Major/Piano (2 Credits)

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 325D Applied Major/Brass (2 Credits)

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 in Eb; Hummel, Trumpet Concerto; Damase, etc.

MUS 325E Applied Major/Woodwind (2 Credits)

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 Applied Major/Strings (2 Credits)

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 Applied Major/Percussion (2 Credits)

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 326A Applied Major/Voice (2 Credits)

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

MUS 326B Applied Major/Piano (2 Credits)

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 Invention

MUS 326D Applied Major/Brasswind (2 Credits)

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 C

MUS 326E Applied Major/Woodwind (2 Credits)

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 326F Applied Major/Strings (2 Credits)

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 326G Applied Major/Percussion (2 Credits)

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 Music History (2 Credits)

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 332 Music History (2 Credits)

Continued chronological survey of the development of music in the Western world 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 Jazz Literature & Criticism (3 Credits)

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 Composition (3 Credits)

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 Advanced Conducting (2 Credits)

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 351H Honors Advanced Conducting (2 Credits)

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 Woodwind Class (1 Credits)

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 Brasswind Class (1 Credits)

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 Recording & Music Production (3 Credits)

Learn to operate digital consoles, microphones, and signal processing equipment that provide in-studio experience recording, mixing, producing, and editing professional quality music projects.

MUS 366 Music Video (3 Credits)

Create high-quality music videos while learning to shoot, edit, and synchronize pre-recorded music to videos. (Meets three hours per week.)

MUS 366H Honors Music Video (3 Credits)

Create high-quality music videos while learning to shoot, edit, and synchronize pre-recorded music to videos. (Meets three hours per week.)

MUS 367 Pro Tools 101 (3 Credits)

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 369 Pro Tools 110 (3 Credits)

This is the second-level user-certification course offered by Avid covering advanced techniques of post-production digital audio editing necessary for the music and film industries.

MUS 383 Curr/Instr Procedures Inateaching Music (2 Credits)

Methods class for music education major.

MUS 384 Curr/Instr Procedures Inateaching Music (2 Credits)

Methods class for music education major.

MUS 384I Curr/Instr Procdateaching Music (inst) (2 Credits)

Study of the principles and procedures for conducting a music program in elementary school including organization, administration, and supervision of the music program; motivation and techniques of teaching; methods and materials. Special emphasis on multicultural content and appreciation; developing competencies in identifying and referring special students.

MUS 384V Curr/Instr Procdateaching Music (voc) (2 Credits)

Study of the principles and procedures for conducting a music program in elementary school including organization, administration, and supervision of the music program; motivation and techniques of teaching; methods and materials. Special emphasis on multicultural content and appreciation; developing competencies in identifying and referring special students.

MUS 403 Recitals Class (0 Credits)

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 410A Band (1 Credits)

Provides enriching musical opportunities to develop instrumental performance skills in a group setting. Band ensembles include Spartan Legion Marching Band and Symphonic Wind Ensemble.

MUS 410D Concert Choir (1 Credits)

The Concert Choir promotes the mastery of choral music from all periods and styles while enhancing musicianship and an appreciation of choral singing for music majors and non-music majors alike.

MUS 410F Jazz Ensemble (1 Credits)

The Instrumental Jazz Ensemble and Vocal Jazz Ensemble bring collaborative musical ingenuity together with extraordinary showmanship to create performance groups that highlight the jazz idiom.

MUS 411A Band (1 Credits)

Provides enriching musical opportunities for percussionists to develop performance skills in a group setting.

MUS 411D Concert Choir (1 Credits)

The Concert Choir promotes the mastery of choral music from all periods and styles while enhancing musicianship and an appreciation of choral singing for music majors and non-music majors alike.

MUS 411F Jazz Ensemble (1 Credits)

The Instrumental Jazz Ensemble and Vocal Jazz Ensemble bring collaborative musical ingenuity together with extraordinary showmanship to create performance groups that highlight the jazz idiom.

MUS 411G Percussion Ensemble (1 Credits)

Provides enriching musical opportunities for percussionists to develop performance skills in a group setting.

MUS 421B Piano (1 Credits)

The course continues the development of basic piano skills necessary for application in the broad range of music professions.

MUS 422B Piano (1 Credits)

The course continues the development of basic piano skills necessary for application in the broad range of music professions.

MUS 425A Applied Major/Voice (2 Credits)

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

MUS 425B Applied Major/Piano (2 Credits)

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 425D Applied Major/Brasswind (2 Credits)

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; Tr

MUS 425E Applied Major/Woodwind (2 Credits)

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; transpositi

MUS 425F Applied Major/Strings (2 Credits)

Studies from Kreutzer Etudes 24-42; Schradieck's Technical Violin School; preparation for senior recital or senior jury.

MUS 425G Applied Major/Percussion (2 Credits)

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 426A Applied Major/Voice (2 Credits)

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

MUS 426B Applied Major/Piano (2 Credits)

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 426D Applied Major/Brass (2 Credits)

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; Tr

MUS 426E Applied Major/Woodwind (2 Credits)

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; transpositi

MUS 426F Applied Major/Strings (2 Credits)

Studies from Kreutzer Etudes 24-42; Schradieck's Technical Violin School; preparation for senior recital or senior jury.

MUS 426G Applied Major/Percussion (2 Credits)

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 Legal Protection to Music & Musicians (3 Credits)

Survey of the field of music law including performance and recording royalties, contracts, performing rights organizations, musical copyright procedures, and publication.

MUS 448 Arranging (2 Credits)

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.

MUS 465 Adv Pract Application/Electronic Music (3 Credits)

A hands-on course in which each participant takes part in recording and mixing a variety of musical styles in a professional Pro Tools environment. Students learn to critically listen for the relationship between musical elements in order to successfully realize their artistic vision. Lectures cover analysis of musical structure, the nature of the multitrack process, tonalities and their interrelationships, and breakdowns of popular recordings and their musical balances.

MUS 493 Music Internship (3 Credits)

Designed to provide practical experience in the student's major area of concentration. For music media juniors and seniors, opportunities for placement include the university's recording studio and other studios, radio, cable and production facilities. Students may select an internship (off-campus placement) with music promotion, music production, music entertainment companies or recording studios. Students spend a semester working with professionals in a music media setting to gain practical experiences.

Naval Science (NSC)

NSC 101 Naval Orientation (2 Credits)

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 Sea Power & Maritime Affairs (3 Credits)

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 111 Naval Laboratory I (1 Credits)

Study of basic military formations, drill movements, commands, customs, courtesies, honors, and inspections including lectures and discussions on a variety of subjects.

NSC 112 Naval Laboratory II (1 Credits)

Study of basic military formations, drill movements, commands, customs, courtesies, honors, and inspections including lectures and discussions on a variety of subjects.

NSC 201 Naval Ship Systems I (3 Credits)

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 Naval Ship Systems II (3 Credits)

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 211 Naval Laboratory III (1 Credits)

Study of basic military formations, drill movements, commands, customs, courtesies, honors, and inspections including lectures and discussions on a variety of subjects.

NSC 212 Naval Laboratory IV (1 Credits)

Study of basic military formations, drill movements, commands, customs, courtesies, honors, and inspections including lectures and discussions on a variety of subjects.

NSC 301 Navigation & Naval Operations I (3 Credits)

Comprehensive study of theory, principles, and procedures of ship navigation, movements, and employment, including use of charts and publications, dead reckoning, piloting and electronic navigation techniques, voyage planning, and survey of celestial navigation. Operations topics include communications, sonar-radar search, and screening theory. Covers tactical formations and dispositions, relative motion, maneuvering board, tactical plots, rules of the road, lights, signals, and navigational aids.

NSC 302 Navigation & Naval Operations II (3 Credits)

Comprehensive study of theory, principles, and procedures of ship navigation, movements, and employment, including use of charts and publications, dead reckoning, piloting and electronic navigation techniques, voyage planning, and survey of celestial navigation. Operations topics include communications, sonar-radar search, and screening theory. Covers tactical formations and dispositions, relative motion, maneuvering board, tactical plots, rules of the road, lights, signals, and navigational aids.

NSC 310 The Evolution of Warfare (3 Credits)

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 311 Naval Laboratory V (1 Credits)

Study of basic military formations, drill movements, commands, customs, courtesies, honors, and inspections including lectures and discussions on a variety of subjects.

NSC 312 Naval Laboratory VI (1 Credits)

Study of basic military formations, drill movements, commands, customs, courtesies, honors, and inspections including lectures and discussions on a variety of subjects.

NSC 401 Leadership & Management (3 Credits)

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 Leadership & Ethics (3 Credits)

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 Amphibious Warfare (3 Credits)

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 411 Naval Laboratory VII (1 Credits)

Study of basic military formations, drill movements, commands, customs, courtesies, honors, and inspections including lectures and discussions on a variety of subjects.

NSC 412 Naval Laboratory VIII (1 Credits)

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 Foundations of Professional Development (1 Credits)

Establishes a foundational knowledge of the professional standards associated with nursing practice. Introduces the baccalaureate nursing student to concepts and theories underpinning the practice of professional nursing. Establishes a foundation of ethical principles for use in the practice of professional nursing. Introduce a framework for delivering nursing care to a multicultural population.

NUR 301 Foundations of Online Success: Bsn Orientation (3 Credits)

Provides information and skills to new RN-BSN students in the areas specific to BSN programmatic pathways, RN-BSN online expectations, advance library, writing, and APA skills needed to be successful in the program. Upon successful completion of this course, the RN-BSN student will be prepared for success in the BSN program.

NUR 304 Nursing Informatics (2 Credits)

Focuses on information technology in current health care environments and how nursing informatics tools, principles, and practices are used to make health care safer.

NUR 321 Multicultural Studies/Bioethics (3 Credits)

Designed to sensitize students to the differences and similarities of culturally different people with regard to health and illness. The students will also be encouraged to clarify personal values and develop an appreciation for the values that underpin health decisions made by consumers of health care.

NUR 321H Honors Multicultural Studies/Bioethics (3 Credits)

Designed to sensitize students to the differences and similarities of culturally different people with regard to health and illness. The students will also be encouraged to clarify personal values and develop an appreciation for the values that underpin health decisions made by consumers of health care. This section is for Honors Nursing students.

NUR 322 Health Assessment (4 Credits)

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 Genetics & Genomics in Nursing Practice (2 Credits)

Explains the role of nursing in therapies, health conditions, and disease risk of conditions having a genetic or genomic element and introduces related research including the Human Genome project. The relationships between genetics and genomics, health, prevention, screening, diagnostics, prognostics, selection of treatment, and treatment effectiveness are examined. Ethical, legal, ethnic, and social considerations are explored.

NUR 342 Fundamentals of Nursing Lab (4 Credits)

Focuses on the assessment and basic care of the hospitalized adult client. Application of the nursing process, health assessment, and clinical nursing techniques are implemented using concepts and theories that underlie professional nursing practice. 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 342L Fundamentals of Nursing Laboratory (2 Credits)

Focuses on the assessment and basic care of the hospitalized adult client. Application of the nursing process, health assessment, and clinical nursing techniques are implemented using concepts and theories that underlie professional nursing practice. 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 Nursing Pharmacology (3 Credits)

Provides an overview of pharmacology with an emphasis on clinical applications within the context of the nursing process. Indications, modes of action, effects, dosages, side effects, nursing implications, contraindications and interactions for drugs involved in selected disease processes are emphasized. Special consideration is given to the patient's physiological, psycho/social, cultural and spiritual needs.

NUR 360 Nursing Care of Adults I Lab (6 Credits)

Provides students with laboratory and clinical experiences in providing nursing care for clients with common acute and chronic illnesses across the lifespan. Emphasis is on the delivery of competent, safe, and evidence-based health care for diverse clients in a variety of settings. Focus is on the use of health care and information management technologies in the implementation, documentation, and evaluation of nursing interventions.

NUR 360L Nursing Care of Adults I Laboratory (3 Credits)

Provides students with laboratory and clinical experiences in providing nursing care for clients with common acute and chronic illnesses across the lifespan. Emphasis is on the delivery of competent, safe, and evidence-based health care for diverse clients in a variety of settings. Focus is on the use of health care and information management technologies in the implementation, documentation, and evaluation of nursing interventions.

NUR 400 Pathophysiology (3 Credits)

Designed for the study of the normal physiology of human body systems and how alterations in structure and function can initiate the onset of disease. Prepares students to integrate and apply pathophysiological concepts holistically and utilizes the nursing process as the basis for examining persons with pathologies requiring multiple dimensions of nursing care.

NUR 415 Health Assessment (4 Credits)

Development of expertise in obtaining nursing histories and performing physical assessments on clients throughout the life span experiencing varying levels of wellness. Opportunity for application and refinement of skills in the on-campus laboratory.

NUR 418 Conceptual Models for Nursing (3 Credits)

Introduces the baccalaureate nursing student to concepts and theories underpinning the practice of professional nursing, including concepts of self-care, nursing process, systems theory and theories of family development and crisis.

NUR 418H Honors Conceptual Models for Nursing (3 Credits)

Introduces the baccalaureate nursing student to concepts and theories underpinning the practice of professional nursing, including concepts of self-care, nursing process, systems theory and theories of family development and crisis. This section is for Honors Nursing students.

NUR 429 Providing Nursing Systems for Individuals and Large Groups (3 Credits)

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 435 Complex Nursing Systems for Populations (3 Credits)

Focuses on the design and implementation of nursing care for families, communities, and high-risk populations throughout the life cycle. Students will use appropriate skill sets to assess, plan, implement, and evaluate nursing care as well as to analyze the management of care delivery by others in a variety of settings. This course is online and open to RN-BSN students.

NUR 435L Complex Nursing Systems for Pop-Lab (2 Credits)

Focuses on the implementation of learned skills specific to caring for families, communities, and high-risk populations throughout the life cycle. Clinical experience for this lab is conducted using a preceptorship model within the local community. Selected clinical sites will be designed to focus on the management of care in a community life cycle. This course is open to RN-BSN students.

NUR 440 Nursing Care of Adults II Lab (6 Credits)

Provides students with laboratory and clinical experiences in providing nursing care 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 440H Honors Nursing Care of Adults II (6 Credits)

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 440L Nursing Care of Adults II Laboratory (3 Credits)

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 Psychiatric/Mental Health Nursing (2 Credits)

Focuses on nursing care for clients experiencing significant life cycle events that have a major impact on self-care management, lifestyles and activities of individuals and small groups. These life-cycle events result in alterations, primarily in psychological homeostasis that range from minor alterations such as anxiety to major alterations such as psychotic disorders. Students will effectively use therapeutic communication and interventions to help restore psychological and physiological homeostasis.

NUR 442L Psychiatric/Mental Health Nursing Lab (2 Credits)

Provides students with laboratory and clinical experiences for clients experiencing significant life cycle events that have a major impact on self-care management, lifestyles and activities of individuals and small groups. These life-cycle events result in alterations, primarily in psychological homeostasis that range from minor alterations such as anxiety to major alterations such as psychotic disorders.

NUR 446 Nursing of Women & Childbearing Family (2 Credits)

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.

NUR 446L Nurs of Women & Childbearing Family Lab (2 Credits)

Provides students with laboratory and clinical experiences to provide nursing care for 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.

NUR 450 Nursing of Children/Adolesc/Families (2 Credits)

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 to synthesize assessment, pathophysiologic, pharmacologic, and therapeutic concepts. Family-centered care of children within developmental, cultural, ethnic, religious, and social structures will be examined.

NUR 450L Nursing of Children/Adolesc/Famil Lab (2 Credits)

Provides students with laboratory and clinical experiences for the application of nursing care of infants, children, and adolescents in varied health care and community settings. Students are expected to use the nursing process to synthesize assessment, pathophysiologic, pharmacologic, and therapeutic concepts. Family-centered care of children within developmental, cultural, ethnic, religious, and social structures will be examined.

NUR 461 Nursing Research Dimensions (3 Credits)

Designed to introduce the student to the research process and provide a foundation for the utilization of research findings to drive decisions in the provision of nursing care. Examines the steps of the research process, guide the student to identify practice questions, review relevant literature, critique research findings, and apply evidence to promote patient safety and improve the quality of care.

NUR 461H Honors Nursing Research Dimensions (3 Credits)

Designed to introduce the student to the research process and provide a foundation for the utilization of research findings to drive decisions in the provision of nursing care. Examines the steps of the research process, guides the student to identify practice questions, reviews relevant literature, critiques research findings, and applies evidence to promote patient safety and improve the quality of care. This section is for Honors Nursing students.

NUR 462 Nursing Leadership & Management (3 Credits)

Emphasizes the examination of theory and concepts related to functions of management, leadership, and organizational structures. Students will have the chance to analyze, apply, and evaluate theory in complex health care settings, evaluate their personal leadership behaviors, evaluate the quality and direction of health and nursing, and encourage change as appropriate.

NUR 462H Honors Nursing Leadership & Management (3 Credits)

Emphasizes the examination of theory and concepts related to functions of management, leadership, and organizational structures. Students will have the chance to analyze, apply, and evaluate theory in complex health care settings, evaluate their personal leadership behaviors, evaluate the quality and direction of health and nursing, and encourage change as appropriate. This section is for Honors Nursing students.

NUR 463 Capstone Theory (2 Credits)

Maximizes socialization as a professional nurse by examining the nurse's role 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. Synthesizes theoretical nursing concepts using case studies, application exercises, simulation activities, and testing practice to culminate in a portfolio reflecting knowledge acquired in the BSN program.

NUR 463L Capstone Theory & Preceptorship (3 Credits)

Lab course provides the student with a culminating opportunity to synthesize nursing concepts and comprehensively apply clinical concepts through faculty and preceptor guided clinical experiences.

NUR 470 Professional Development Seminar (3 Credits)

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 course is open to RN-BSN students.

NUR 485 Contemporary Topics Nursing/Health Care (3 Credits)

Provides an opportunity for the emerging generalist in the practice of professional nursing to apply knowledge and skills in an area of personal interest in nursing. Under the instructor's supervision, students will identify and conduct a project or participate in work experience. Projects chosen by students may be related to research, leadership or nursing practice and are designed to address contemporary and emerging issues in nursing.

NUR 485H Hnrs Contemp Topics Nursing/Health Care (3 Credits)

Provides an opportunity for the emerging generalist in the practice of professional nursing to apply knowledge and skills in an area of personal interest in nursing. Under the instructor's supervision, students will identify and conduct a project or participate in work experience. Projects chosen by students may be related to research, leadership or nursing practice and are designed to address contemporary and emerging issues in nursing. This section is for Honors Nursing students.

NUR 490 Community Health Nursing (2 Credits)

Focuses on the design and implementation of 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 various settings.

NUR 490L Community Health Nursing Lab (2 Credits)

Community clinical course designed to apply principles of community health nursing. Expanding on current knowledge and experience base, students will participate in various clinical activities in the community. Students will design, implement, and evaluate nursing care and analyze the management of care delivery by others in various settings.

Optical Engineering (OEN)

OEN 200 Geometric and Instrumentation Optics (3 Credits)

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 Geometric & Instrumentation Optics Lab (1 Credits)

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 OEN 200 and students are advised to take these courses concurrently.

OEN 201 Physical and Instrumental Optics (3 Credits)

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 Physical & Instrumentation Optics Lab (1 Credits)

This laboratory is designed to complement the topics discussed in OEN 201 and students are advised to take these courses concurrently.

OEN 290 Optical Engineering Seminar I (1 Credits)

Provides an introduction to contemporary topics in optical engineering, including contemporary technical topics, professional topics, and emerging areas for employment and career advancement.

OEN 297 Summer Research I (3 Credits)

Undergraduate research supervised by a faculty member. Development of the skills of research, including preparations, design, and execution of experiments and data analysis.

OEN 320 Optical Systems Analysis (3 Credits)

Development of tools and techniques for engineering of optical systems. Study of specifications, system design and analysis, tradeoffs and optimization, and manufacturing.

OEN 340 Lasers and Photonics (3 Credits)

Covers condensed matter physics, including issues in solid state physics, laser physics, laser light, and laser components, systems, and measurements.

OEN 340L Laser and Photonics Lab (1 Credits)

This course is the study of laser and photonics in a laboratory setting.

OEN 360 Introduction to Optical Materials (3 Credits)

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 nonlinear effects will also be covered.

OEN 360H Honors Intro to Optical Materials (3 Credits)

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 nonlinear effects will also be covered.

OEN 380 Introduction to Quantum Optics (3 Credits)

Introduces students to theoretical concepts and experimental evidence of quantum phenomena that allows them to gain a fundamental understanding of a number of novel semiconducting and photonic systems. Students completing this course will understand fundamental quantum concepts that are prevalent in many novel systems, including nanostructures and electronic and optical materials that can be used to design a next-generation optoelectronic and optical devices.

OEN 390 Optical Engineering Seminar II (1 Credits)

This course provides an introduction to contemporary topics in optical engineering, including contemporary technical topics with relevance to modern practice. The course is comprised of three four-week modules and one three-week module. The individual modules will review a foundational technical area within optical engineering. The module topics will vary annually.

OEN 397 Summer Research II (3 Credits)

Undergraduate research supervised by a faculty member. Further development of the skills of research including preparations, design, and execution of experiments and data analysis.

OEN 460 Optical Communications I (3 Credits)

Study of optical communication components and applications to communications systems, including fiber attenuation and dispersion and noise and coherent communications.

OEN 460L Optical Communication I Laboratory (1 Credits)

Study of optical communication components and applications to communications systems in a laboratory setting.

OEN 461 Optical Communications II (3 Credits)

Further discussion of coherent communications as it relates to distribution networks for fiber-to-the-premises (FTTP) and optical sensing.

OEN 461L Optical Communications II Laboratory (1 Credits)

This laboratory is designed to complement the topics discussed in OEN 461. Students are advised to take these courses concurrently.

OEN 471 3D Printing & Laser Processing (3 Credits)

Introduces students to basic principles and theory of 3D printing and laser processing for various applications. Provides classroom lectures on optical engineering principles, computer-aided design (CAD) technology, and rapid prototyping technology using 3D printing and lasers. Includes a lab component for design and fabrication of 3D devices for engineering applications. Students will conduct team projects to design, fabricate, and analyze prototyped devices using rapid prototyping tools.

OEN 471H Honors 3D Printing/Laser Processing (3 Credits)

Introduces students to basic principles and theory of 3D printing and laser processing for various applications. Provides classroom lectures on optical engineering principles, computer-aided design (CAD) technology, and rapid prototyping technology using 3D printing and lasers. Includes a lab component for design and fabrication of 3D devices for engineering applications. Students will conduct team projects to design, fabricate, and analyze prototyped devices using rapid prototyping tools.

OEN 490 Sr Seminar (1 Credits)

This course provides an introduction to various aspects of engineering practice, engineering ethics, and career opportunities through invited lectures.

OEN 498 Sr Project I (3 Credits)

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 Sr Project II (3 Credits)

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 Fundamentals of Fitness for Life (1 Credits)

Development of knowledge and appreciation for total fitness as an individualized goal, including the improvement in current levels of fitness and the development of positive lifestyles.

PED 101 Modified Physical Education (1 Credits)

Individualized programs of instruction for students with special needs with regard to physical activity. Medical excuse required.

PED 102 Modified Physical Education (1 Credits)

Individualized programs of instruction for students with special needs with regard to physical activity. Medical excuse required.

PED 107 Aerobics (1 Credits)

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 Water Aerobics (2 Credits)

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 Beginning Swimming (1 Credits)

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 Advanced Swimming (1 Credits)

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 152 Rhythm and Folk Dances (1 Credits)

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 sociocultural inquiry into various dances in different societies. Of particular interest will be the basic sociocultural and historical background including the music and movements of each dance.

PED 158 Fundamentals of Physical Education (1 Credits)

This course focuses on the fundamental movement skills and concepts that are the foundation of a quality physical education and physical activity program.

PED 159 Fundamentals of Physical Education (1 Credits)

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.

PED 170 Introduction to Physical Education (3 Credits)

Introduction to historical, philosophical, educational, psychological, biological, sociological, and career emphasis related to the field of physical education.

PED 170H Hrs Introduction to Physical Education (3 Credits)

Introduction to historical, philosophical, educational, psychological, biological, sociological, and career emphasis related to the field of physical education.

PED 179 First Aid, Cpr, and Aed (2 Credits)

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 Beginning Fitness/Weight Training (2 Credits)

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 Tennis I (1 Credits)

Development of basic skills in the game of tennis, including techniques, rules, and strategies.

PED 209 Bowling (1 Credits)

Development of skills and appreciation for bowling, both as a fitness and leisure time activity.

PED 210 Golf (1 Credits)

Development of performance skills at the beginning level, the knowledge of rules, terminology, equipment, and safety techniques in golf.

PED 213 Introduction to Net & Wall Games (1 Credits)

The purpose of this course is to provide the student with basic level of knowledge and skills in a variety of net and wall games, such as racquetball, table tennis, pickleball, volleyball, tennis, and badminton to be able to successfully participate in recreational lifelong activities.

PED 220 Evaluation in Physical Education (3 Credits)

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 220H Honors Evaluation in Physical Education (3 Credits)

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 Aquatic Sports and Activities (1 Credits)

This course introduces the student to a variety of aquatic sports and activities. Primary focus is on swimming, water polo, and aquatic-based board sports.

PED 251 Modern Dance I (1 Credits)

The course introduces the techniques and principles of modern dance. The primary learning experiences will include rhythmic development, stretch and strength warmup, use of gross motor skills, and cursory historical and sociocultural inquiry. Of particular interest will be the basic sociocultural and historical background of Modern dance specifically as it relates to the development of African American concert dance traditions.

PED 254 Jazz Dance (1 Credits)

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 Team Sports I: Invasion Games (1 Credits)

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 Team Sports II: Net/Wall/Fielding Games (1 Credits)

The purpose of this course is to develop the tactical knowledge, skills and movements for net/wall and striking/fielding category of games. The course will consist of teaching techniques, cues, progressions, skill transfer, error analysis, error correction, personal skill development, activity planning, and peer teaching experiences.

PED 271 Individual Sports (1 Credits)

Development of skills in archery, golf, tennis, badminton, bowling, racquetball, and pickle ball; fitness testing.

PED 272 Cooperative and Target Games (1 Credits)

Development of interpersonal and intrapersonal skills through participation in and planning of cooperative games; 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 287 Human Anatomy (3 Credits)

Part I of a two-part course dealing with the anatomical and functional relationships of the human body. In lecture setting, the course is designed to acquaint students with the general organization of the body, the skeletal, muscular, integumentary and nervous systems, and special senses.

PED 287L Human Anatomy Laboratory (1 Credits)

Part I of a two-part course dealing with the anatomical and functional relationships of the human body. In laboratory setting, the course is designed to acquaint students with the general organization of the body, the skeletal, muscular, integumentary, and nervous systems, and special senses.

PED 288 Human Physiology (3 Credits)

Part II of a two-part course dealing with the anatomical and functional relationships of the human body. In lecture setting, the course is designed to acquaint students with the structure, function, regulation, and integration of organs and organ systems of humans.

PED 288L Human Physiology Laboratory (1 Credits)

Part II of a two-part course dealing with the anatomical and functional relationships of the human body. In laboratory setting, the course is designed to acquaint students with the structure, function, regulation, and integration of organs and organ systems of humans.

PED 300 Advanced Fitness/Weight Training (2 Credits)

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 300H Hnrs Adv Fitness/Weight Training (2 Credits)

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 Lifeguard Training (3 Credits)

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. 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 Skill Analysis (2 Credits)

The purpose of this course is to develop the knowledge and skills required to assess movement skills and performance techniques. Integrations of theory, technology, and assessment trends are included in assignments.

PED 335H Honors Skill Analysis (2 Credits)

The purpose of this course is to develop the knowledge and skills required to assess movement skills and performance techniques. Integrations of theory, technology, and assessment trends are included in assignments.

PED 356 Kinesiology (3 Credits)

The 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 Organization & Administration (3 Credits)

Focus on organization and administration of physical activity, athletic, and intramural programs. Administrative responsibilities including program development, facility management, budgeting, public relations, personnel management, program and staff evaluation, and legal liability issues will be addressed.

PED 362 Athletic Coaching and Officiating (2 Credits)

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.

PED 365 Adapted Physical Education (3 Credits)

This course is designed to provide students with current knowledge and applications of learning for people with disabilities. Class activities will include text discussions, speakers, adapted physical activities, and hands-on experience working with individuals with disabilities in a physical activity setting.

PED 365H Honors Adapted Physical Education (3 Credits)

This course is designed to provide students with current knowledge and applications of learning for people with disabilities. Class activities will include text discussions, speakers, adapted physical activities and hands-on experience working with individuals with disabilities in a physical activity setting.

PED 370 Secondary Physical Education Methods (3 Credits)

Study of methods and procedures for designing and implementing unit and lesson plans for physical education theory and activity classes in a secondary physical education program.

PED 380 Elementary Physical Education Methods (3 Credits)

Students 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. Additionally, students will construct and apply ongoing authentic assessments appropriate for the content, context, and grade level as well as analyze physical education curriculum models.

PED 380H Hnrs Elementary Physical Ed Methods (3 Credits)

Students 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. Additionally, students will construct and apply ongoing authentic assessments appropriate for the content, context, and grade level as well as analyze physical education curriculum models.

PED 440 Driver Education (3 Credits)

Study of Methods used for teaching driver education in public schools.

PED 441 Driver Task Analysis (3 Credits)

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 influence performance ability. Prepares students to become eligible to take the certification exams for driving school instructors in both public and private schools.

PED 443 Drivers Rehabilitation (3 Credits)

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 Principl/Methods Class/In-Car Instruct (3 Credits)

This is the second of two courses required to obtain certification in driver education. This course provides methods of teaching the required in-car segment of driver education.

PED 450 Motor Learning (3 Credits)

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 450H Honors Motor Learning (3 Credits)

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 that affect skill acquisition, motor performance, and the teaching-learning process.

PED 451 Psychological Aspects of Sports (3 Credits)

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 Physiology of Muscular Exercise (3 Credits)

Study of physiological responses, adjustments, and adaptations to the acute stress of exercise, physical activity, and the chronic stress of physical training.

PED 477H Honors Physiology of Muscular Exercise (3 Credits)

Study of physiological responses, adjustments, and adaptations to the acute stress of exercise, physical activity, and the chronic stress of physical training.

PED 480 Principles of Physical Education (3 Credits)

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 Internship Experience I (3 Credits)

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 Exercise Science Internship (12 Credits)

Provides students with the opportunity to apply their 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.

Physics (PHY)

PHY 100L Physical Science Laboratory (1 Credits)

Survey of the unity of the physical sciences (astronomy, physics, chemistry, and geology) rather than arbitrary divisions. Emphasis on knowledge of selected facts, principles, and methods of science and the place of science in our modern world.

PHY 152 General Physics (3 Credits)

This lecture and recitation course deals with mechanics, heat, and sound. The course emphasizes analytical methods and problem solving. Accompanying laboratories: PHY 152L.

PHY 152L General Physics Laboratory I (1 Credits)

Opportunity to investigate the laws and principles of physics and to make conclusions based on observations and analysis.

PHY 153 General Physics (3 Credits)

This lecture and recitation course deals with electricity and magnetism, light, and modern physics. The course emphasizes analytical methods and problem solving. Accompanying laboratories: PHY 153L.

PHY 153L General Physics Laboratory II (1 Credits)

Opportunity to investigate the laws and principles of physics and to make conclusions based on observations and analysis.

PHY 154 Physics of Music (3 Credits)

Study of mechanical vibrations, sound, acoustics of halls and musical instruments, electroacoustics, electronic music, musical scales, waveform analysis, recording and reproduction of musical sounds. (1 hour lecture, 2 hours experiment, project recitation)

PHY 160 University Physics I (4 Credits)

This lecture and recitation course deals with mechanics, heat, and sound. The course emphasizes analytical methods with the application of calculus and problem solving. Accompanying laboratories: PHY 160L.

PHY 160L University Physics Laboratory I (1 Credits)

Opportunity to investigate the laws and principles of physics and to make conclusions based on observations and analysis.

PHY 161 University Physics II (4 Credits)

This lecture and recitation course deals with electricity and magnetism, light, and modern physics. The course emphasizes analytical methods with application of Calculus and problem solving. Accompanying laboratories: PHY 161L.

PHY 161L University Physics Laboratory II (1 Credits)

Opportunity to investigate the laws and principles of physics and to make conclusions based on observations and analysis.

PHY 241 Physics Seminar (1 Credits)

Presentation and discussion of current topics in all areas of physics. Required of sophomore physics majors.

PHY 260 University Physics III (4 Credits)

Study of basic concepts and principles of oscillatory motion, mechanical waves, electro-magnetic waves, geometrical optics, physical optics, and special relativity. Calculus and vector methods used throughout the course.

PHY 297 Introduction to Research (3 Credits)

Acquisition of fundamental skills in experiment design, data analysis, and other research skills. Undergraduate research supervised by a faculty member.

PHY 345 Math Methods in Physical Sciences I (3 Credits)

Introductory study of advanced mathematical topics including complex numbers, vectors, matrices, series, and differential equations with special emphasis on applications to physics topics.

PHY 350 Modern Physics (3 Credits)

Introduction to modern physics including relativity, atomic structure, nuclear structure, radioactivity, nuclear reactions, and elementary particles.

PHY 351 Modern Physics Laboratory (2 Credits)

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.

PHY 356 Heat and Thermodynamics (3 Credits)

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 Physical Mechanics I (3 Credits)

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 approximation.

PHY 366 Physical Mechanics II (3 Credits)

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 approximation.

PHY 366H Honors Physical Mechanics (3 Credits)

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 approximation.

PHY 375 Electricity and Magnetism I (3 Credits)

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 Quantum Mechanics I (3 Credits)

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 Introduction to Research (3 Credits)

Development in the skills of research, including preparations, fabrication, design and execution of experiments, and data analysis. Undergraduate research supervised by a faculty member.

PHY 399 Advanced Laboratory (2 Credits)

Introduction to techniques of advanced experimentation and to development of research and technical writing skills. Experiments in mechanics, heat, electronics, optical spectroscopy, and atomic and nuclear physics.

PHY 445 Math Methods in Physical Sciences II (3 Credits)

Study of advanced mathematical topics including Fourier series, calculus of variations, series solutions of differential equations, and partial differential equations, with special emphasis on applications to physics topics.

PHY 468 Optics (3 Credits)

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 Electricity and Magnetism II (3 Credits)

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 Quantum Mechanics II (3 Credits)

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.

PHY 498 Sr Project I (2 Credits)

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 Sr Project II (2 Credits)

Supervised investigation of a research problem including planning, execution, and analysis. Preparation of report, oral presentation, and completion of senior assessment examination required.

Political Science (POS)

POS 100 American Government (3 Credits)

Introduction to American government, its historical foundations, institutions, and political processes. The course explores the structure and interplay of the various institutions and sub-institutions of the American government, introducing the ideas and forces that shape its politics. The goal is to enable students to understand the causes and consequences of political behavior in order to become more informed citizens.

POS 180 Introduction to Political Science (3 Credits)

Introduction to the basic concepts, questions, and wider study of Political Science: conflict and cooperation, interests and power, systems and change, and substantive divisions and subfields of Political Science. It takes a comparative approach and presupposes little to no prior knowledge of political science while building analytical skills to comprehend political developments.

POS 230 American Public Policy (3 Credits)

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 American State and Local Government (3 Credits)

A study of the politics, institutions, policies, problems, structure, major functions, and outcomes of sub-systems of state and local governments. Covers local political, legislative, judicial, and other non-traditional, emergent issues in these sub-national political systems and jurisdictions and their interactions including interstate, state-state, and state-local relations.

POS 250 Introduction to Public Administration (3 Credits)

Introduction to Public Administration, its fundamentals, especially the development and implementation of public policy. Includes the conceptual and practical understanding of the subject matter focusing on topics such as planning, budgeting, ethics, the policy process, and intergovernmental relations. Prerequisite: POS 230

POS 250H Honors Intro to Public Administration (3 Credits)

This course introduces students to Public Administration and helps them understand its fundamentals, especially the development and implementation of public policy. The discussion includes the conceptual and practical understanding of the subject matter focusing on topics such as planning, budgeting, ethics, the policy process, and intergovernmental relations. Additional assignments will be given at the instructor's discretion.

POS 315 African American Politics (3 Credits)

This course undertakes a systematic study of the African American individual, society and institutions within the American political system, covering various periods of the African American political experience and development.

POS 315H Honors African American Politics (3 Credits)

This course undertakes a systematic study of the African American individual, society, and institutions within the American political system, covering various periods of the African American political experience and development. Additional assignments will be provided.

POS 323 Comparative Government (3 Credits)

Study of the organization, structure, and progressive change in the politics and political systems of the world's major powers, with an emphasis on Europe's advanced industrial democracies (United Kingdom, France, and Germany) and selected BRIC/Global South countries.

POS 325 American Foreign Policy (3 Credits)

The course is designed to help students acquire a sound conceptual and practical understanding of the foreign policy challenges of the United States. It describes the role that domestic politics and institutions (both formal and informal) play in shaping American foreign policy placing emphasis on key geopolitical regions. Prerequisite: At least 45 credit hours

POS 332 Introduction to Jurisprudence (3 Credits)

This course provides an opportunity to develop an understanding of the fundamentals of law and the American legal system. Designed to give attention to both the development of legal reasoning and the judicial process, the course will provide an introduction to the cultural, racial, sociological, and economic variables affecting the development of political and legal theories and perspectives.

POS 333 Research Methods (3 Credits)

This course focuses on empirical research methodology, emphasizing measurement, testing theory, and applying social scientific research methods to prepare students for graduate-level study. This course provides experience in reading peer-reviewed literature, developing social scientific theories, and proposing and developing feasible research designs.

POS 337 American Constitutional Law I (3 Credits)

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. This course examines the historical background of major federal court decisions. Prerequisite: POS 332

POS 337H Honors American Constitutional Law I (3 Credits)

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. This course examines the historical background of major federal court decisions. Additional assignments will be given. Prerequisite: POS 332

POS 338 American Constitutional Law II (3 Credits)

Continuing an analysis of the social, cultural, economic, and political climates having an impact on contemporary political issues. The course will be the foundation for understanding America in the 21st Century. Beginning the analytical progression with the Civil War Amendments, this course will be the gateway to an understanding of 21st Century America.

POS 338H Honors American Constitutional Law II (3 Credits)

Continuing an analysis of the social, cultural, economic, and political climates having an impact on contemporary political issues. The course will be the foundation for understanding America in the 21st Century. Beginning the analytical progression with the Civil War Amendments, this course will be the gateway to an understanding of 21st Century America.

POS 345 Statistics and Data Processing (3 Credits)

Examination of inferential and descriptive statistics to facilitate researchers obtaining, calculating, and interpreting statistical results applied to political questions and policy analysis, including the capabilities of the computer in analytics as applied to research problems.

POS 350 Organization Theory and Behavior (3 Credits)

This course examines the structure and function of public organizations, with emphasis on theories of administrative hierarchies and evaluation of bureaucracies. It deals with organizational structures, functions, behavior, and performance. It includes the study and analysis of individual or group behaviors within organizational settings.

POS 360 International Relations (3 Credits)

Examines relationships among nations relative to conflict and security, alliances, institutions, international organizations, global political economy, and emerging transnational issues such as terrorism and climate change. It considers traditional and non-traditional state and non-state actors and threats and opportunities to the global system particularly given the impact of ever-increasing technology and globalization.

POS 431 Modern Theory (3 Credits)

Critical analyses of enduring political problems in the writings of European theorists from Machiavelli to the present.

POS 431H Honors Modern Political Theory (3 Credits)

Study of major European political ideas, problems, philosophies, and philosophers that have influenced and shaped the development of western society from Machiavelli to the present. Topics include forming and ruling states, freedom, liberty, equality, individuality, democracy, religion, justice, and commerce. It identifies enduring themes, historical and current tensions, and unresolved contradictions. Includes additional project to fulfill the honors designation.

POS 443 Administrative Law (3 Credits)

Introduction to the American legal system using a case study approach.

POS 451 Public Personnel Administration (3 Credits)

Introduction to public personnel management. The course focuses on the recruitment, examination, placement, remuneration, morale, retirement, training, and issues that impact public service. It also examines the context, processes, paradoxes, and various environments (legal, political, economic, and social dimensions) of public personnel management at the federal level. Prerequisite: POS 350

POS 463 Politics of African Nations (3 Credits)

The course provides students with an overview of African politics within a historical context and examines contemporary issues in a broader international framework with particular emphasis on the role of colonialism, the Cold War, and post-colonial relations with the big powers. It also focuses on intra-African relations, synthesizing materials that examine democratization, political stability, economic development, and regional integration. Prerequisite: At least 45 credit hours

POS 464 African Crises: Causes and Effects (3 Credits)

The course is designed to neutralize, as much as possible, media bias on Africa. While these miseries are very characteristic of African politics, they did not occur in isolation. To mitigate media bias, students will be introduced to the most chronic crises in Africa, but against the backdrop of historical events such as colonialism and the Cold War. Prerequisite: At least 45 credit hours

POS 466 Readings in Government (3 Credits)

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 468 Survey Contemporary Governments of Asia (3 Credits)

Survey of the contemporary politics and governments of countries on the Asian continent. Attention is paid to the historical, geographic, economic, political, religious, and cultural conditions and issues that have shaped them and from which present governments evolved.

POS 493 Political Science Internship (3 Credits)

Internship in a public agency or nonprofit organization, providing students the opportunity to integrate and extend classroom learning with practice. The course provides an opportunity to apply political science, public administration, or public policy theories and knowledge to a specific goal or challenge faced by the organization with a greater level of responsibility. Prerequisite: POS 100 and at least 30 credit hours

POS 499 Sr Capstone (3 Credits)

Semi-independent or directed substantive research course that utilizes rigorous research methods under the supervision of a faculty mentor. Students conduct scientific inquiry on a selected Political Science topic, in consultation with and on approval by the instructor, and conduct thorough empirical research on the topic. Students present findings within simulated or actual professional settings. Prerequisites: At least 75 credit hours

Psychology (PSY)

PSY 210 Introduction to Psychology (3 Credits)

Introduction to the scientific study of human behavior and mental processes. Emphasis on theoretical approaches, concepts, principles, and research findings. Overview of selected areas that provide the foundation for further study in psychology. Topics include critical thinking, neuroscience, nature/nurture, consciousness, motivation, work stress and health, and psychological disorders.

PSY 210H Honors Intro to Psychology (3 Credits)

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. Topics include critical thinking, neuroscience, nature/nurture, consciousness, motivate, work, stress and health, and psychological disorders.

PSY 211 Basic Principles of Psychology (3 Credits)

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 211H Honors Basic Principles of Psychology (3 Credits)

Overview of selected topics in psychology as a continued introduction to psychology begun in PSY210. Emphasizes theoretical approaches, concepts, principles, and research findings. Topics include sensation, perception, learning, memory, thinking, intelligence, personality, therapy, and social psychology.

PSY 220 Child Psychology (3 Credits)

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 Adolescent Psychology (3 Credits)

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 Developmental Psychology (3 Credits)

Comprehensive study of the psychological development of the individual, including linguistic, social personality, and cognitive aspects of development from conception through late adulthood.

PSY 228H Honors Developmental Psychology (3 Credits)

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 Educational Psychology (3 Credits)

Introduction to the psychological principles relevant to the processes of education and the theory of educational institutions.

PSY 250 Social Psychology (3 Credits)

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 Psychological Statistics (3 Credits)

Study of the basic principles and techniques employed in descriptive and inferential statistics, and 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 and nonparametric tests, and probability.

PSY 280 Abnormal Psychology (3 Credits)

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 Educational Tests and Measurements (3 Credits)

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 Behavior Analysis (3 Credits)

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 Behavior Management (3 Credits)

Study of learning and behavioral programs. Emphasis on learning theory applications including contingency contracting, token economies, modeling, and similar techniques.

PSY 322 Psychology of Exceptional Children (3 Credits)

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 Personality (3 Credits)

Introduction to the nature of personality, its development, and its functioning. Examination of classical and contemporary theories and data.

PSY 340 Psychology of the African American (3 Credits)

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 340H Honors Psychology of African Americans (3 Credits)

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 Experimental Psychology (3-4 Credits)

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 360H Honors Experimental Psychology (3 Credits)

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-hour lecture/1 hour lab.)

PSY 370 Principles of Cyberpsychology (3 Credits)

This course provides a broad overview of the emerging field of cyberpsychology. Topics surveyed are related to the fundamental areas of introductory psychology but applied from the perspective of their application to the current digital landscape of the globally connected world. Specifically, examination of how current technologies influence human behavior, decision making, communication, mental health and expression of personality will be considered.

PSY 373 History & Systems of Cyberpsychology (3 Credits)

This course will survey the history of cyberpsychology through present day with a focus on the various applications of the discipline over time. Students will examine the changing role of technology over time. The influence of culture on the trends and usage of technology, as well as the various ways digital technologies have evolved to become pervasive fixtures in the everyday lives of most people around the world.

PSY 381 Topics in Psychology (3 Credits)

Supervised projects selected to suit the needs of the individual student.

PSY 381A Writing in Psychology (3 Credits)

Writing in Psychology, provides the basic tenants of effective writing in Psychology to include effective implementation of APA style, as well as the development of sound general writing skills.

PSY 381B Counseling Techniques (3 Credits)

This course provides an overview of the major counseling theories and practical applications of various therapeutic techniques.

PSY 381C Human Sexuality (3 Credits)

This course examines the physical, intrapsychic, and interpersonal aspects of sexuality.

PSY 381D Psychology of the Leader (3 Credits)

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, leading groups, and teams.

PSY 381F Careers in Psychology (3 Credits)

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 experiences required for entry into the workforce.

PSY 381M Mindfulness (3 Credits)

Provides a comprehensive introduction to the psychological construct of mindfulness and to various mindfulness techniques.

PSY 381P Positive Psychology (3 Credits)

Focuses on the science of happiness and human strength. Provides an overview of the major theories and research in this area.

PSY 381R Psychology of Religion (3 Credits)

This course is an introduction to the scientific study of psychological processes involved in seeing something as special, set apart, and sacred. There will be emphasis on how religion can be studied as an explanation for certain events, such as why people think, behave, or feel the way they do.

PSY 390 Fundamentals of Learning (3 Credits)

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 Readings in Psychology (3 Credits)

Directed readings and supervised independent study of contemporary issues. Comprehensive coverage of a subject from assigned materials required.

PSY 391A The Psychology of Women (3 Credits)

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 Health Psychology (3 Credits)

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.

PSY 391D The Psychology of Racism (3 Credits)

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 391G The Psychology of Marriage (3 Credits)

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 391M Masculinity (3 Credits)

This course examines the diverse psychological, cultural, relational, and spiritual experiences of males that identify as Black, African, African American, and/or Caribbean (i.e., of the African Diaspora) within the North American/United States context.

PSY 392 Seminar in Community Resources (1 Credits)

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 Research in Psychology (1-3 Credits)

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 Psychology of Adjustment (3 Credits)

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 430 Clinical Methods in Psychology (3 Credits)

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 430H Honors Clinical Methods in Psychology (3 Credits)

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 450 Systems in Psychology (3 Credits)

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 492 Psychology Seminar (3 Credits)

Presentation of recent experimental and theoretical advances in selected areas of psychology. Class projects prepared and presented in a seminar format.

PSY 492H Honors Psychology Seminar (3 Credits)

Presentation of recent experimental and theoretical advances in selected areas of psychology. Class projects prepared and presented in a seminar format.

PSY 495 Practicum in Psychology (3-6 Credits)

Supervised field experience in an applied setting, i.e., a mental health agency or other appropriate institution.

PSY 495H Honors Practicum in Psychology (3 Credits)

Supervised field experience in an applied setting, i.e., a mental health agency or other appropriate institution.

PSY 496 Practicum in Psychology (3 Credits)

Supervised field experience in an applied setting, i.e., a mental health agency or other appropriate institution.

Religion (REL)

REL 200 Major World Religions (3 Credits)

Survey of major world religions and selected topics involving theological and cultural developments. Investigation of basic religious structures and the relationship of religious phenomena to their cultural context. The historical, theological, and modern impact of the religions studied highlighted.

REL 330 History & Theology of the Black Church (3 Credits)

Analysis of African American religious thought through critical study of the historical legacy of events, personalities, and institutions that helped shape black religion from Africa to the present.

REL 420 Sociology of Religion (3 Credits)

Study of the treatment of religions as a social institution. Examination of the influence of society on religion and the influences of religious ideas and organizations on other social institutions and cultures.

Sciences (SCI)

SCI 101 Physical Science for Non-Science Majors (3 Credits)

This course is designed to give general knowledge of physical science. The course emphasizes knowledge of selected facts, principles, methods of science, and the place of science in our modern world. Topics include astronomy, physics, chemistry, and Earth science.

SCI 101L Physical Science Laboratory (1 Credits)

An introductory science course for undergraduate non-science majors designed for students to gain knowledge of selected facts, principles, and the scientific method. Survey of the unity of physical science (chemistry, physics, and earth science) and the planets.

SCI 381 Science for Teachers (3 Credits)

Extension of the fundamental concepts of the biological and physical sciences, with special emphasis on content material in the physical sciences. Also provides special consideration of selecting methods and applications appropriate to the program of elementary schools.

SCI 381L Science for Teachers Laboratory (1 Credits)

Laboratory course designed to accompany SCI 381 (Science for Teachers). Provides laboratory experiences to extend fundamental concepts of biological and physical sciences as it relates to the selection of appropriate methods and content for the classroom.

SCI 401 Geological Material and Processes (3 Credits)

Contact the department for specific course information.

Secondary Education/School Leadership (SED)

SED 233 Seminar in Assessment and Evaluation (3 Credits)

Study and application of theories, methods, and materials used in acquiring critical thinking skills. Emphasis on developing critical thinking in specific contexts, such as the Core Battery Tests of the National Teacher Examinations, and assessing and evaluating thinking skills and knowledge.

SED 380 Foundations of Secondary School Methods (3 Credits)

Study of concepts related to teaching and learning, classroom management, student-teacher relationships, presentation of subject matter, and testing and evaluation.

SED 384 Curriculum & Instruction in Math (3 Credits)

Study of methods and practices designed to assist prospective secondary teachers in defining and implementing the knowledge and skills necessary to effectively teach Mathematics in the classroom.

SED 385 Curriculum & Instruction in Science (3 Credits)

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 Curriculum & Instruction in Fine Arts (3 Credits)

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 Curriculum & Instruction in English (3 Credits)

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 390 Curriculum/Instruc in Social Studies (3 Credits)

Development of tools and strategies necessary to achieve high standards of learning for teaching social studies courses in secondary classrooms.

SED 405 Reading in the Content Area (3 Credits)

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 Educational Technology (3 Credits)

Focus on incorporating multimedia skills needed for competence in K-12 settings. Introduction to PowerPoint and Microsoft Excel as tools for grading, alongside the innovation of online teacher management applications.

SED 486 Human Growth and Development (3 Credits)

Provides an understanding of the physical, social, emotional, linguistic, and intellectual development of children and the ability to use this understanding in guiding learning experiences. Includes skills contributing to an understanding of developmental disabilities and developmental issues related to, but not limited to, attention deficit disorders, gifted education, substance abuse, child abuse, and family disruptions.

SED 488 School Community Relations (3 Credits)

Study of the relationships between the local school and the local community, examining the impact of social classes and systems on education. Provides an opportunity for community field experience to explore means by which to involve various proponents of the community in the educational process.

SED 499 Directed Teaching (internship) (12 Credits)

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 methods conducted by professors associated with the various disciplines.

SED 499H Hnrs Directed Tchng Secondary Schools (12 Credits)

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 methods conducted by professors associated with the various disciplines.

Social Work (SWK)

SWK 199 Professional Dev Leadership & Ethics (2 Credits)

The course orients students to social work including the generalist approach, practice, standards, the National Association of Social Workers code of ethics and behaviors essential to be a professional social worker and global leader. Additional focus includes developing critical thinking skills, self-awareness, and the importance of being a lifelong learner.

SWK 200 Introduction to Social Work (3 Credits)

This course 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 of the generalist practitioner.

SWK 207 Social Welfare Policy I (3 Credits)

This course is the 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 207H Hon Social Welfare Policy & Service I (3 Credits)

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 Human Behavior & Social Environment I (3 Credits)

This course is the first of three required courses in the Human Behavior and Social Environment (HBSE) sequence. It examines the dynamics of multilevel social systems as they have an impact on the development and well-being of individuals from preconception through childhood. Critical analysis is given to diverse social and cultural factors and their relation to social work values and ethics including social justice.

SWK 220H Hon Human Behavior & Social Environ I (3 Credits)

This course is the first of three required courses in the Human Behavior and Social Environment (HBSE) sequence. It examines the dynamics of multilevel social systems as they have an impact on the development and well-being of individuals from preconception through childhood. Critical analysis is given to diverse social and cultural factors and their relation to social work values and ethics including social justice.

SWK 300 Social Welfare Policy II (3 Credits)

This course examines social problems and teaches students how to develop a social welfare policy analysis. Institutional nature of social welfare, relation to social institutions, and governmental welfare policies are covered.

SWK 300H Honors Social Welfare Policy II (3 Credits)

This course examines social problems and teaches students how to develop a social welfare policy analysis. Institutional nature of social welfare, relation to social institutions, and governmental welfare policies are covered.

SWK 309 Human Behavior & Social Environment II (3 Credits)

This is the second of three required courses in the Human Behavior and Social Environment (HBSE) sequence. This course includes an examination of the dynamics of multilevel social systems, and their impact on the development of individuals from adolescence through dying and death. Study of interaction between human biological, social, psychological, and cultural systems as they affect and are affected by human behavior.

SWK 312 Introduction to Generalist Practice (3 Credits)

This is the first of three required courses in the General Practice Sequence. This first course provides students with the foundational knowledge, values, skills, and affective processes that form the holistic conceptual framework of generalist social work practice.

SWK 313 Gen Practice Individuals/Families (3 Credits)

This is the second of three required courses in the Generalist Practice Sequence. The course examines the application of the generalist intervention model or planned change process with individuals and families from diverse populations. Emphasis is on professionalism, self-awareness, human diversity, systems theory, ecological perspective, and strengths perspective.

SWK 314 Nature & Meaning of Child Welfare (3 Credits)

This course is designed to present a broad knowledge of the principal 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 314H Hnrs Nature & Meaning of Child Welfare (3 Credits)

This course is designed to present a broad knowledge of the principal 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 Trauma-Informed Practice Child/Family (3 Credits)

This course is an undergraduate elective that provides an overview of special topics of treatment, specifically trauma-informed generalist practice with children and families. This is a practice elective.

SWK 315H Hon Trauma Inform Practice Child/Family (3 Credits)

This course is an undergraduate elective that provides an overview of special topics of treatment, specifically trauma-informed generalist practice with children and families. This is a practice elective.

SWK 318 Gen Prac Group Organization & Community (3 Credits)

This is the final of three required courses in the Generalist Practice (GP) sequence. This course includes an examination of theories and methods of social work in mezzo and macro practice. Emphasis is on the development of skills related to engagement, data collection, problem identification/assessment, intervention, termination, and evaluation while working with groups, organizations, and communities.

SWK 318H Hon Group Organization & Community (3 Credits)

This is the final of three required courses in the Generalist Practice (GP) sequence. This course includes an examination of theories and methods of social work in mezzo and macro practice. Emphasis is on the development of skills related to engagement, data collection, problem identification/assessment, intervention, termination, and evaluation while working with groups, organizations, and communities.

SWK 319 Human Behavior & Social Environment III (3 Credits)

This course is the third of three required courses in the Human Behavior and Social Environment (HBSE) sequence. This course examines the dynamics of multilevel social systems as they have an impact on the formation and development of the diverse contemporary American family. Emphasis is on the interactions between and among family diversity, as well as biological, social, psychological, and cultural systems as they relate to the family unit.

SWK 320 Human Diversity & Social Justice in SW (3 Credits)

This course examines the impact of discrimination and oppression on members of particular groups, such as ethnic minorities, women, elderly, disabled, gay, lesbian, and transgender, while considering the effects of diversity on human behavior and attitudes. It will review historical and contemporary policies and events, how social workers attend to systemic issues and the role, function, and intersections of oppression in society as it relates to social, racial, and economic justice.

SWK 326 Techniques of Counseling (3 Credits)

This course presents an overview of the major theories of counseling. It provides in-depth study of the basic theoretical assumptions and concepts of counseling individuals and families.

SWK 327 Interviewing Techniques (3 Credits)

This course examines 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 Community & Neighborhood Development (3 Credits)

This course examines community and neighborhood empowerment from a social work, community practice, community development, and a business and economic development perspective.

SWK 333 Methods of Social Work Research (3 Credits)

This course introduces social work students to the fundamental concepts of research principles, statistical analysis, and methodologies used in the Social Work profession.

SWK 411 Contemporary Social Policy Issues (3 Credits)

This course is an advanced elective that 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. Contemporary policy issues are examined.

SWK 411H Hnrs Contemporary Social Policy Issues (3 Credits)

This course is an advanced elective that 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. Contemporary policy issues are examined.

SWK 416 Generalist Practice: Evaluation (3 Credits)

This course examines the application of techniques for evaluation of generalist practice. Emphasis is placed on understanding and refining practice skills that center on evaluation of social work practice. Research procedures and designs are 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 416H Honors Generalist Practice: Evaluation (3 Credits)

This course examines the application of techniques for evaluation of generalist practice. Emphasis is placed on understanding and refining practice skills that center on evaluation of social work practice. Research procedures and designs are 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 Practicum Seminar I (1 Credits)

This course integrates theory with field practice. It assists in evaluating practice performance while exploring personal and professional values and ethics.

SWK 491 Practicum Seminar II (1 Credits)

This is the second practicum course. This course continues to integrate theory with field practice. It assists in evaluating practice performance while exploring personal and professional values and ethics.

SWK 492 Independent Study in Social Work (3 Credits)

This course provides opportunities to engage in student and/or faculty-initiated special projects that explore a specific dimension of social work practice and/or theory.

SWK 495 Practicum in Social Work I (5 Credits)

This course requires an internship in a social welfare agency. Students complete 225 hours per semester while engaged in a supervised practice experience where generalist skills are utilized/required.

SWK 496 Practicum in Social Work II (5 Credits)

This second practicum course requires an internship in a social welfare agency. Students complete 225 hours per semester while engaged in a supervised practice experience where generalist skills are utilized/required.

SWK 497 Macro/Micro Persp Inter Social Welfare (3 Credits)

This course is an advanced level social policy course. It is designed to examine the interplay among macro social systems in selected western and non-western societies as they relate to general social welfare.

SWK 497H Macro/Micro Persp Inter Social Welfare (3 Credits)

This course is an advanced level social policy course. It is designed to examine the interplay among macro social systems in selected western and non-western societies as they relate to general social welfare.

SWK 498A Bsw Field Practicum Orientation I (0 Credits)

This is an orientation course to provide social work field practicum students 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 outlines the relationship of the practicum agency to the field experience and explores the importance of ethical and professional behavior.

SWK 498B Bsw Field Practicum Orientation II (0 Credits)

This is the second orientation course to provide social work field practicum students 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 outlines the relationship of the practicum agency to the field experience and explores the importance of ethical and professional behavior.

Sociology (SOC)

SOC 101 Introduction to the Social Sciences (3 Credits)

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 global context.

SOC 110 Introduction to Sociology (3 Credits)

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 205 Human Sexuality (3 Credits)

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 228 Demographic Principles (3 Credits)

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 228H Honors Demographic Principles (3 Credits)

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 230 Social Problems (3 Credits)

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 230H Honors Social Problems (3 Credits)

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 234 Urban Sociology (3 Credits)

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 Racial & Ethnic Minorities (3 Credits)

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 325 Sociology of Business/Internationalism (3 Credits)

Study of relationship between businesses and society, including multicultural and international approaches, and impact of changes in society, business practices, and technology on societal structure. Emphasis on roles of industrial revolution, modern technology, and information science. Analysis of current international environment, interconnectedness of business, societies, and economic processes. Examination of effect of business practices on environmental problems and possible solutions.

SOC 325H Hnrs Socio Business & Internationalism (3 Credits)

Study of the relationship between businesses and society, including multicultural and international approaches, and impact of changes in society, business practices, and technology on societal structure. Emphasis on roles of industrial revolution, modern technology, and information science. Analysis of current international environment, interconnectedness of business, societies, and economic processes. Examination of effect of business practices on environmental problems and possible solutions.

SOC 326 Native American Societies (3 Credits)

A sociological survey of Native American societies across the land mass that is now the United States of America from pre-Columbian times through the present. Cultures of nations and important events will be examined to illustrate broad social and historical dynamics and how those dynamics inform contemporary position and treatment of Native Americans. Explores the impact of Native Americans on U.S. politics, law, and culture, as well as the impact of the U.S. on indigenous nations.

SOC 331 Social Psychology (3 Credits)

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 on basic social science, emphasizing major theoretical ideas and research findings. Applications to everyday life are also considered.

SOC 331H Honors Social Psychology (3 Credits)

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 on basic social science, emphasizing major theoretical ideas and research findings. Applications to everyday life are also considered.

SOC 338 Sociology of Families (3 Credits)

Study of the family and its functions 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 338H Honors Sociology of Families (3 Credits)

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 Methods of Social Research (3 Credits)

Introduction to basic principles and procedures of social science research to assist students in becoming competent consumers of research. Emphasis on understanding the research process, noting the reasons for particular procedures and the errors and limitations inherent in research. Topics include the scientific method, conceptualization, formulation of hypotheses, research design, analysis and interpretation of findings, theoretical basis of research, application and evaluation of research, and the nature of science.

SOC 355 Social Statistics (3 Credits)

Introduction to the basic tools of statistics and how statistical tools are used in social science research. Covers both descriptive statistics and inferential statistics. Introduction to data analysis and data visualization methods in Excel, SPSS, SAS, R, and other statistical packages.

SOC 356 Intermediate Social Statistics (3 Credits)

Study of statistical foundations necessary to develop competence in the analysis and interpretation of sociological data. Assumes knowledge of basic statistical principles. Emphasis on hypothesis testing, logic, application, and interpretation of test statistics; graphic and tabular presentation of data; parametric and nonparametric tests of significance and tests of association; and regression analysis, with emphasis on the derivation and interpretation of coefficients. Extensive use of statistical packages to explore complex survey and demographic data.

SOC 393 Internship (6-12 Credits)

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 Socio-Cybersecurity (3 Credits)

Examination of the sociocultural aspects of cybersecurity and its accompanying social problems. Cybersecurity is situated in social deviance theory framework in order to explain the role of policing and the judicial system. Examination of cybersecurity position in pivotal social institutions. Application of sociological research to cybersecurity and managerial best practices for handling big data.

SOC 404 Population & Socioeconomic Development (3 Credits)

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 Readings in Urban Demography (3 Credits)

Intensive directed reading course for exceptionally able.

SOC 406 Topics in Urban Demography (3 Credits)

Examination of trends and emerging issues in the field of urban demography.

SOC 410 Seminar on Social Problems of Aging (3 Credits)

This course is designed to provide understanding and insight regarding the nature of many of the social problems of aging, including perspectives on defining aging and the aged. Also examines the impact of race and class on aging life cycle.

SOC 415 Sociology of Health & Health Care (3 Credits)

This course examines and offers a sociological perspective on the social production of health, illness, mortality, and health care. It highlights the connection between social justice, social transformation, health, illness, mortality, and health care. While this course focuses on health and health care within the U.S., it also examines the global challenges in health and health care.

SOC 446 Sociological Theory (3 Credits)

Survey and analysis of the main types of sociological theories and the major theoretical concepts in Sociology. Special emphasis on outstanding theorists, past and present, and their works.

SOC 458 Social Stratification (3 Credits)

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 Complex Organizations (3 Credits)

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 495 Topics in Sociology (3 Credits)

Examination of trends and emerging issues in a dynamic social world.

SOC 499 Applied Sociology (3 Credits)

The objective of this course is to acquaint students with the process of integrating knowledge from previous courses into two research projects (one mini and one major). Students will be guided through the systematic sociology research process based on knowledge from research methods, statistics, and sociological theory into a capstone project. Students will learn how to write critically and analytically and how to use quantitative or qualitative software for lab data analysis.

Spanish (SPN)

SPN 111 Elementary Spanish I (3 Credits)

Introduction to the fundamentals of pronunciation, grammar, structure, vocabulary, conversation, and reading.

SPN 111H Honors Elementary Spanish I (3 Credits)

Introduction to the fundamentals of pronunciation, grammar, structure, vocabulary, conversation, and reading.

SPN 112 Elementary Spanish II (3 Credits)

Continuation of the fundamentals of pronunciation, grammar, structure, vocabulary, conversation, and reading.

SPN 112H Honors Elementary Spanish II (3 Credits)

Continuation of the fundamentals of pronunciation, grammar, structure, vocabulary, conversation, and reading.

SPN 113 Basic Conversation (3 Credits)

Emphasis on acquiring conversational skill with minimal involvement with formal study of grammar for students who have had no previous training in Spanish.

SPN 211 Intermediate Spanish I (3 Credits)

Review of grammar, reading of moderately difficult prose, oral practice, and written composition.

SPN 212 Intermediate Spanish II (3 Credits)

Intensive and extensive study and reading of modern prose, oral practice, and composition.

SPN 215 Intermediate Conversation (3 Credits)

Study of oral practice in everyday situations. Special emphasis on idiomatic expressions and fluency. Conducted largely in Spanish.

SPN 220 Spanish Civilization (3 Credits)

Survey of the most important elements of Spanish civilization, geography, economy, political history, arts, sciences, and institutions. Conducted in Spanish.

SPN 315 Advanced Conversation (3 Credits)

Intensive and extensive practices in the oral use of Spanish. Conducted in Spanish.

SPN 454 Advanced Grammar and Composition (3 Credits)

Intensive review and application of Spanish grammar. Intensive practice in writing and study of vocabulary and idioms.

Special Education (SPE)

SPE 312 Educational Psychology & Behavior Management (3 Credits)

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 environment.

SPE 321 Medical/Legal Aspects in Special Ed (3 Credits)

Study of the medical/biological and environmental etiologies of disabling conditions that can occur prenatally, perinatally, and postnatally. Emphasis on preventive, diagnostic, and prescriptive treatment procedures and the impact of etiologies on learning potential. A 20-hour clinical experience is required.

SPE 332 C&i Proc Tchng Students W/Mild Dis (3 Credits)

Skills in this area will 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 332H Hnrs C&i Proc Tchng Students W/Mild Dis (3 Credits)

Skills in this area will 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 344 Tchng Reading to Exceptional Learners (3 Credits)

Study of comprehensive active learning designed to provide a foundation in literacy instruction and content area reading. Emphasis 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 345 Tchng Math to Exceptional Learners (3 Credits)

This comprehensive active learning course is designed to provide service teacher candidates with a foundation in mathematics instruction for students with diverse learning needs. Emphasis will be placed on developing understandings and applications of the curriculum in mathematics for students with disabilities.

SPE 345H Hrs Tchng Math to Exceptional Learners (3 Credits)

This comprehensive active learning course is designed to provide service teacher candidates with a foundation in mathematics instruction for students with diverse learning needs. Emphasis will be placed on developing understandings and applications of the curriculum in mathematics for students with disabilities.

SPE 440 Collaboration Procedures (3 Credits)

Study of curricular development and adjustment. Procedures for exceptional learners, utilizing curriculum materials, assessment techniques, and instructional approaches to remedial learning and behavioral problems. A 20-hour clinical experience is required.

SPE 445 Transition Procedures (3 Credits)

This course is designed to provide pre-service special education teachers 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 implementation of transition services in accordance with special education laws and regulations.

SPE 461 Teaching Sign Language (3 Credits)

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 Assessments of Exceptional Students (3 Credits)

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. A 20-hour clinical experience is required.

SPE 492 Assessments of Exceptional Students (3 Credits)

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. A 20-hour clinical experience is required.

SPE 492H Assessment of Exceptional Students (3 Credits)

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. A 20-hour clinical experience is required.

SPE 499 Directed Teaching (6-12 Credits)

Supervised teaching during which the candidate takes increasing responsibility for a group of individuals with mild disabilities for a specific period of time. Organized on a semester basis with emphasis on elementary, middle, or secondary school experiences supplemented with professional seminar and other educational opportunities. The candidate will assess students, plan instructional interventions, deliver instruction, monitor and document progress, and assume all other classroom duties of the cooperating teacher.

Technology Design (TMD)

TMD 150 Engineering Graphics (3 Credits)

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 student learning.

TMD 151 Introduction to Cad (3 Credits)

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 provide practical experience.

TMD 225 Mechanics I: Statics (3 Credits)

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 251 Advanced Cad (3 Credits)

Advanced aspects of CAD using AutoCAD to produce engineering drawing, 2D architecture, and mechanical drawings. Special emphasis is placed on 3D techniques, solid modeling, and rendering. Hands-on sessions using personal computers will provide practice to reinforce the concepts and provide practical experience.

TMD 345 Mechanics II: Strength of Materials (3 Credits)

This course introduces students to the behavior of materials when subjected to different loadings and restraints and the prediction of material behavior in various mechanical applications. It will cover stress, strain, and mechanical properties of materials, axial load, torsion, bending, and shear. Beams, shafts and columns will be studied.

TMD 345L Mechanics II Lab: Properties of Metals (1 Credits)

Experimentation with properties of materials, fabrication characteristics, testing, and inspection. It will acquaint students with techniques of testing materials, making accurate observations of phenomena and correct interpretations of results. Meets 2 hours per week.

Tourism & Hospitality Management (THM)

THM 100 Prof Career Hospitality Industry (3 Credits)

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, resumes, interviewing skills, and networking communications.

THM 115 Introduction to Tourism & Hospitality (3 Credits)

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.

THM 200 Computers in Hospitality (3 Credits)

Study of computer applications used in the hospitality industry. Emphasis on the different software packages available and the programs they run.

THM 205 Sanitation Principles (3 Credits)

Study of sanitation standards for food and beverage establishments, food-handling practices, and micro-organisms and their control.

THM 210 Front Office Management (3 Credits)

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 Fundamentals Nutrition for Food Service (3 Credits)

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.

THM 250 Hotel Operations Management (3 Credits)

This course presents best practices and future directions in the hotel industry. Students will gain an understanding based on the flow of the guests' experience including reservation, arrival, registration, service, purchasing, departure, and billing.

THM 280 Dining Rm BEVERAGE Management Op (3 Credits)

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 290 Introduction to Gaming Management (3 Credits)

Overview of the gaming industry, including scope, staffing, security, control, taxation, government, regulations, its interface with the hotel, and the social, economic, and cultural impacts of gaming on host community.

THM 300 Purchasing for the Hospitality Industry (3 Credits)

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.

THM 320 Cases in Hospitality Management (3 Credits)

Study of strategic management concepts and applications in the hospitality industry. Students learn how to set up, start, and run a hospitality business. In addition, students receive intensive training in the use of cases for decision making.

THM 331 Food, Beverage & Labor Cost Control (3 Credits)

Fundamentals of food, beverage, and labor cost control for hotel and restaurant operations.

THM 351 Event Planning and Management (3 Credits)

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 381 Facilities Layout & Design (3 Credits)

Study of hospitality facilities, layouts, and designs; exterior and interior; building systems; space allocations; equipment; and budgets.

THM 391 Internship in Hospitality (3 Credits)

On-the-job experience at a hospitality industry employer. Minimum of 250 clock hours required.

THM 401 Club and Resort Management (3 Credits)

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.

THM 402 Management by Menu (3 Credits)

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.

THM 403 Catering Management (3 Credits)

This course will offer an overview of food service catering in an on- and off-premise environment.

THM 440 Hospitality Sales and Advertising (3 Credits)

Study of hospitality sales and marketing with emphasis on practical sales techniques, proven approaches to selling to targeting markets, and marketing role in sales.

THM 462 Hospitality Human Resource Management (3 Credits)

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 481 Hospitality Property Management (3 Credits)

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.

THM 490 Sr Project (3 Credits)

Emphasis on providing the student with the opportunity to engage in a research project designed to showcase competence and developed managerial knowledge.

THM 494 Restaurant Franchising (3 Credits)

Emphasis on the unique difference between franchise and company-owned properties and the application of special techniques required to manage these differences.

Urban Professionals (URP)

URP 192 Introduction to Urban Planning (3 Credits)

Specifically designed to explore the relationship between social planning and physical planning. Students are informed about how cities function and change. The components of city life will be discussed, including housing, urban revitalization, redevelopment, new towns, and the environment. The course provides a broad historical and contemporary view of urban living and encourages students to think about innovative ways to solve evolutionary and recent problems of urban life.

URP 192H Honors Introduction to Urban Planning (3 Credits)

Specifically designed to explore the relationship between social planning and physical planning. Students are informed about how cities function and change. The components of city life will be discussed, including housing, urban revitalization, redevelopment, new towns, and the environment. The course provides a broad historical and contemporary view of urban living and encourages students to think about innovative ways to solve evolutionary and recent problems of urban life.

URP 292 Urban Planning Law (3 Credits)

Survey of cases, legislation, and terminology relevant to planning law. Exploration of the social, economic, and environmental interrelationships of the real estate development industry, local government, and the public. Emphasis on the dynamic role of law in planning processes and procedures.

URP 380 Housing and Community Development (3 Credits)

Introduction to the rationale and techniques for providing assistance in the community development and city development process. Examination of the myriad of institutional and market forces, as well as socioeconomic and demographic factors that affect the supply and demand for housing. Emphasis on the concepts of citizen participation, self-direction, and self-help in real and simulated neighborhood revitalization efforts.

INDEX

A

Academic Calendar	6
Academic Information	36
Academic Policies	43
Academic Resources and Services	47
Academic Standards	40
Accounting (ACC)	240
Administrative Offices	13
Admissions	27
Army Science	158
Associate of Science in Architectural Drafting	230
Astronomy (AST)	241

B

Baccalaureate in Social Work	237
Bachelor of Arts in History - Military Science (ARMY) Concentration ...	158
Bachelor of Arts in Drama and Theatre - Design and Technology Concentration	144
Bachelor of Arts in Drama and Theatre - Performance Concentration ..	145
Bachelor of Arts in English	104
Bachelor of Arts in Fine Arts - Specializing in Education Concentration .	148
Bachelor of Arts in Fine Arts and Graphic Design	146
Bachelor of Arts in History	110
Bachelor of Arts in History – Teacher Licensure Endorsement in History and Social Science	114
Bachelor of Arts in History - Military Science (NAVY) Concentration ...	111
Bachelor of Arts in History - Online	112
Bachelor of Arts in Political Science	130
Bachelor of Arts in Psychology	135
Bachelor of Arts in Sociology	138
Bachelor of Music in Music - Media Concentration	152
Bachelor of Music in Music Education - Instrumental/Keyboard/Vocal Concentration	150
Bachelor of Science in Computer Science - Computer Engineering Track	178
Bachelor of Science and Master of Science in Optical Engineering (Five-Year Dual Degree)	193
Bachelor of Science Education in Elementary Education	85
Bachelor of Science Education in Special Education and Teaching	86
Bachelor of Science Electrical and Electronics Engineering (General) ..	187
Bachelor of Science in Applied Mathematics - (DNIMAS) Track	218
Bachelor of Science in Accountancy	56
Bachelor of Science in Applied Mathematics	196

Bachelor of Science in Biology	161
Bachelor of Science in Biology - (DNIMAS) Track	220
Bachelor of Science in Biology - Pre-Professional Concentration	163
Bachelor of Science in Biology - Pre-Professional (DNIMAS) Track	219
Bachelor of Science in Biology - Teacher Licensure Endorsement	165
Bachelor of Science in Business - Business Intelligence & Data Analytics, Concentration	58
Bachelor of Science in Business - Entrepreneurship, Concentration	62
Bachelor of Science in Business - Finance, Concentration	64
Bachelor of Science in Business - Financial Services, Concentration	67
Bachelor of Science in Business - Management, Concentration	73
Bachelor of Science in Business - Management Information Systems, Concentration	71
Bachelor of Science in Business - Marketing, Concentration	76
Bachelor of Science in Chemistry	168
Bachelor of Science in Chemistry - (DNIMAS) Track	221
Bachelor of Science in Chemistry - Pre-Medicine Concentration	170
Bachelor of Science in Chemistry - Pre-Medicine (DNIMAS) Track	222
Bachelor of Science in Chemistry - Secondary Education Concentration	171
Bachelor of Science in Chemistry and Master of Science in Materials Science - Five-Year Dual Degree	172
Bachelor of Science in Computer Engineering Technology	232
Bachelor of Science in Computer Science - IA Track	179
Bachelor of Science in Computer Science - CyberSecurity Track (DNIMAS)	225
Bachelor of Science in Computer Science - (DNIMAS) Computer Engineering Track	224
Bachelor of Science in Computer Science - (DNIMAS) Track	223
Bachelor of Science in Computer Science - Software Engineering Track ..	180
Bachelor of Science in Computer Science - Standard Track	176
Bachelor of Science in Construction Management Engineering Technology	230
Bachelor of Science in Electrical and Electronics Engineering - (DNIMAS) Track	226
Bachelor of Science in Electrical and Electronics Engineering (Track) ..	189
Bachelor of Science in Electronic Engineering Technology	234
Bachelor of Science in Exercise Science/Health and Physical Education - Health Fitness Instructor	91
Bachelor of Science in Exercise Science/Health and Physical Education - Kinesiotherapy	93
Bachelor of Science in Exercise Science/Health Wellness and Rehabilitation	94
Bachelor of Science in Health Services Management - Food Science & Nutrition Concentration	204
Bachelor of Science in Health Services Management - Online	205
Bachelor of Science in Information Technology	182

Bachelor of Science in Interdisciplinary Studies	116
Bachelor of Science in Interdisciplinary Studies - 3 Year Degree Concentration	118
Bachelor of Science in Interdisciplinary Studies - Military Concentration	119
Bachelor of Science in Interdisciplinary Studies - Online	120
Bachelor of Science in Mass Communications - General Broadcast Concentration	125
Bachelor of Science in Mass Communications - Journalism Concentration	126
Bachelor of Science in Nursing - Online (RN to BSN) Completion Track ..	210
Bachelor of Science in Nursing - Traditional (Pre-licensure) Baccalaureate Completion Track	208
Bachelor of Science in Optical Engineering	192
Bachelor of Science in Optical Engineering - (DNIMAS) Track	227
Bachelor of Science in Physical Education and Health Education	89
Bachelor of Science in Physics	213
Bachelor of Science in Physics - (DNIMAS) Track	228
Bachelor of Science in Physics and Master of Science in Materials Science (Five-Year Dual Degree)	214
Bachelor of Science in Tourism & Hospitality Management – On Campus & Online	79
Biology	160
Biology (BIO)	241
Business, Minor	79

C

Certificate in African and African Diasporan Studies	120
Certificate in Biotechnology	166
Certificate in Health Services Management	207
Certificate in International Studies	132
Chemistry	166
Chemistry (CHM)	244
College of Liberal Arts	101
College of Science, Engineering, and Technology	154
Communication Sciences and Disorder (CSD)	246
Computer Engineering Technology (CET)	247
Computer Literacy - Music (CLM)	247
Computer Science	174
Computer Science (CSC)	247
Construction Management Engineering Technology (CMET)	243
Cooperative Education (CED)	250
Course Descriptions	239
Criminal Justice (CJS)	250

D

Division of Finance and Administration	17
Division of Research and Economic Development	18
Division of Student Affairs	18
Division of University Advancement	26
Drama (DRM)	253
Dual Degree in Mathematics	197

E

Early Childhood Education, Child Care (Non-Teaching Certification Option), Concentration	87
Early Childhood Education (ECE)	254
Early Childhood, Elementary and Special Education	84
Early Childhood Special Education (ECS)	254
Economics (ECN)	254
Education (EDU)	255
Electronic Engineering Technology (EET)	257
Electronics Engineering (EEN)	255
Elementary Education (EED)	258
Engineering	183
English and Foreign Languages	103
English (ENG)	258
Entrepreneurial Studies (ENT)	260
Exercise Science (EXS)	260

F

Fashion Merchandising (FDM)	262
Finance (FNC)	262
Financial Aid	29
Fine Arts (FIA)	262
Food Science and Nutrition (FSN)	265
French (FRN)	265

G

General Education Core Program	38
Geography (GEO)	266

H

Health Education (HED)	266
Health, Physical Education and Exercise Science	87
Health Professionals (HRP)	266
Health Services Management (HSM)	267
History and Interdisciplinary Studies	107
History (HIS)	268
Hotel/Restaurant Management (HRM)	270
Humanities (HUM)	270

I

Industrial Management Technology (IMT)	270
Information Technology (ITE)	271

J

Journalism (JRN)	271
------------------------	-----

M

Management Information Systems (MIS)	271
Management/Decision Sciences (MGT)	271
Marketing (MKG)	271
Mass Communication/Journalism (MCM)	271
Mass Communications and Journalism	124
Mathematics	194
Mathematics (MTH)	273
Medical Technology (MDT)	275
Military Science and Leadership (MSL)	275
Minor in Africana Studies	122
Minor in Astronomy	213
Minor in Biology	161
Minor in Biomedical Engineering	186
Minor in Chemistry	168
Minor in Computer Science - Standard Track	181
Minor in Electrical and Electronics Engineering	191
Minor in English	105
Minor in Fine Arts	148
Minor in Game Design and Development (for Non-EEE Majors)	192
Minor in History	122
Minor in Interdisciplinary Studies	122
Minor in Mass Communications	127
Minor in Mathematics	198
Minor in Optical Engineering	193
Minor in Physics	215
Minor in Political Science	133
Minor in Psychology	135
Minor in Sociology	139
Minor in Spanish	105
Music (MUS)	276

N

National Security Certificate (NSC) Program	166
Naval Reserve Officers Training Corp (NROTC)	200
Naval Science	200
Naval Science (NSC)	282

Nursing and Allied Health	202
Nursing (NUR)	283

O

Office of the Provost	13
Online Programs	123
Optical Engineering (OEN)	285

P

Physical Education (PED)	286
Physics	212
Physics (PHY)	289
Political Science	128
Political Science (POS)	290
Psychology	134
Psychology (PSY)	292

R

Registration Procedures	45
Religion (REL)	294
Residence Hall Financial Information	32

S

School of Business	50
School of Education	82
School of Social Work	236
Sciences (SCI)	294
Secondary Education and School Leadership	96
Secondary Education Endorsement	106
Secondary Education/School Leadership (SED)	295
Social Work (SWK)	295
Sociology	136
Sociology (SOC)	297
Spanish (SPN)	299
Special Academic Programs	217
Special Education (SPE)	299
Speech Communications (SCM)	300

T

Teacher Certification in Mathematics	198
Teacher Certification in Physics	215
Technology	229
Techology Design (TMD)	300
The Office of Clinical Experiences and Student Services	99
Tourism & Hospitality Management (THM)	300
Tuition and Fees	32

U

Undergraduate 5

Urban Professionals (URP) 301

V

Visual and Performing Arts 140

W

Welcome to Norfolk State University 9