Undergraduate Degree Requirements

Overall Requirements for Baccalaureate Degrees

A candidate for a baccalaureate degree must present a minimum of 120 semester hours (except where otherwise noted in degree program descriptions). A minimum overall cumulative grade point average of C (grade point average of 2.00) must be made in all courses taken, and an overall cumulative grade point average of at least 2.00 must be attained in the major except in those programs requiring a grade point average above 2.00. Grades in all courses taken, including failing grades (except courses in which grade forgiveness was applied), are counted when calculating a student’s cumulative grade point average. Grades in all courses taken in the major, including failing grades, are counted when calculating a student’s grade point average in the major. Students completing a minor must have a minimum overall cumulative grade point average of 2.00 in all courses taken toward the minor.

Residency Requirements for Baccalaureate Degrees

A student who seeks a bachelor’s degree from Old Dominion University must, in addition to meeting other requirements of the University, earn a minimum of 25 percent of the total number of credits required for the degree (for example, 30 credits in a 120-credit degree program) through on- or off-campus instruction. This must include a minimum of 12 credit hours of upper-level courses in the declared major program. Some program residency requirements exceed the University minimum. Courses taken at Old Dominion University (as the host institution) through the Virginia Tidewater Consortium do not count toward resident credit. The responsibility for meeting the requirements for a degree rests with the student.

College Requirements

Students should consult with the department of their major for further information regarding the following.

1. Major programs may require specific Skills or Ways of Knowing courses.
2. When requirement hours vary, major programs specify the number.
3. In addition to the University General Education Requirements, college requirements must be met. For example, the College of Arts and Letters requires foreign language proficiency at the fourth-semester level (202) for the Bachelor of Arts degree.

Requirements for Major

Each undergraduate student shall select a major department or option at the appropriate time in his or her curriculum. In consultation with the head of his or her major department or a designee, such as the chief departmental advisor, the student shall select the courses for the major. At least 12 hours of upper-level course work in the declared major program must be taken at Old Dominion University in resident or extension study. All students must complete a writing intensive (W) course in the major at the upper-division level at Old Dominion University and earn a grade of C (2.0) or better.

Additional Requirements for Baccalaureate Degrees

A student may not use courses in the discipline of his or her major to fulfill University General Education Requirements in the following Ways of Knowing areas: Human Behavior, Human Creativity and the Nature of Science.

Students should note that credit toward a degree cannot be obtained for material of what is essentially the same course, but offered in various introductory courses for different audiences.

Evaluation of Writing Proficiency

All students following undergraduate degree programs must pass the University’s Evaluation of Writing Proficiency. See the Undergraduate Writing Program Requirements section of this Catalog for more information.

Assessment Requirement

In response to demands by the University’s accrediting agencies, including the Southern Association of Colleges and Schools – Commission on Colleges and the State Council for Higher Education for Virginia, Old Dominion University has developed an institution-wide plan to assess the quality of its academic programs and services. The plan calls for the assessment of student learning at the beginning, during, and at the end of the college experience.

Upon enrollment in the University and again prior to the completion of degree requirements, all undergraduate students must take one or more measures related to the University’s assessment plan. Students will be notified about the requirement to complete the measures through their University email address. The email invitations will contain a link to the University’s web-based assessment tool where the measures can be completed at the student’s convenience. Assessment results are used for program improvements and thus are not a part of the student’s transcript.

Sanctions for Noncompliance with Assessment Testing Requirement

All undergraduate students are required to participate in the assessment program. Failure to take assessments when required to do so may preclude the student’s right to register for the ensuing semester, or in the case of seniors, receive the baccalaureate degree.

The University will make all reasonable efforts to assure that students have ample opportunities to complete the required assessments. However, certain precautions will be taken to ensure that students submit to the assessment measures and that they take the measures seriously. Further information regarding sanctions procedures is available in offices of college deans and the Office of Institutional Effectiveness and Assessment.

University General Education Requirements

All students receiving baccalaureate degrees from Old Dominion University shall complete the University’s General Education Program. At the lower division (freshman and sophomore), the program’s designed courses develop the Skills (Goals 1-2 below) needed for knowledge at work in the University. At the upper division (junior and senior), Options B, C and D provide a multidisciplinary experience to broaden the student’s ability to apply the Skills and Ways of Knowing at a more advanced level.

General Education and Prior Learning Assessment

All lower-level requirements within this program may be met by credit awarded to students who are able to demonstrate appropriate prior learning that fulfills the objectives of the particular Skills and Ways of Knowing requirements. Though not all learning and experiences are worthy of being recognized with the reward of academic credit, the principle that supports the policy is that many valid learning experiences worthy of such credit do take place outside of the traditional classroom setting. For procedures to meet General Education Requirements in this manner, please consult the section of this Catalog on Prior Learning Assessment Credit Options at the Undergraduate Level and visit the Prior Learning Assessment web site at https://www.odu.edu/academics/academic-records/evaluation-of-credit/prior-learning/.

General Education Philosophy

The General Education program at Old Dominion University represents the common core of the baccalaureate degree. It prepares students for pursuing a major, for broadening their views of life, and for understanding
an increasingly global and diverse world. It provides students with the basic skills and intellectual perspectives to engage in the search for knowledge. The General Education program develops analytical and critical thinking skills and the ability to make reasoned judgments. Students will also discover that learning is a complex, multifaceted, and lifelong endeavor.

**General Education Goals and Objectives**

The Goals (1-5) and particular objectives of General Education are as follows:

1. Develop and demonstrate effective uses of language.
   a. Develop written communication skills.
   b. Develop oral communications skills.
   c. Develop ability to use a foreign language and learn about another culture.
   d. Develop written communication skills in the major at the upper-division level.
2. Develop mathematical and information literacy.
   a. Develop basic mathematical competence.
   b. Develop information literacy competence.
3. Develop an understanding of the natural sciences and technology and their contributions to human culture.
   a. Understand the concepts and methods of the natural sciences.
   b. Understand the nature of technology and its impacts on society and the environment.
4. Develop an understanding of human behavior, society and culture, with specific attention to technology, international perspectives and issues related to ethnicity, race and gender.
   a. Develop an understanding of history and the ability to think critically about the past.
   b. Think critically about beliefs, values, and moral issues that have shaped human society.
   c. Critically analyze the fine and performing arts and their contribution to culture.
   d. Critically analyze literature and its contribution to culture.
   e. Develop an understanding of behavioral, political, economic, and social systems.
5. Integrate knowledge at the advanced level.
   Option A. Complete a minor, second major or second degree.
   Option B. Complete an interdisciplinary minor.
   Option C. Complete an approved certification program such as teaching licensure.
   Option D: Complete upper-division course work from another college or component (majors in the College of Arts and Letters may select from the Arts and Humanities component or the Social Sciences component depending on the major) outside of and not required by the major.

Students may not use courses in the discipline of their declared major to fulfill University General Education Requirements in the following Ways of Knowing areas: Human Behavior, Human Creativity and the Nature of Science.

Since the Skills and Ways of Knowing are needed for major courses and Upper-Division General Education, students should meet those requirements during their freshman and sophomore years.

**Transfer Policies for General Education Requirements**

Students who have received any of the following associate degrees from Richard Bland College or the Virginia Community College System have met all lower-division General Education requirements, except those specified as major or college requirements and requirements for completion of the undergraduate writing program: Associate of Arts (AA), Associate of Science (AS) with any major other than general studies (see the next paragraph for additional information), and Associate of Arts and Sciences (AA and S), including the AA & S with a major in general studies. Effective Fall 2010, the AS degrees in general studies that are offered by those institutions whose general studies degrees are recognized as transfer degrees by the State Council of Higher Education for Virginia will also be guaranteed acceptance as meeting lower-division General Education Requirements. AS degrees in general studies received from those institutions whose general studies degrees are not recognized by the State Council of Higher Education for Virginia will be examined individually to determine whether the degrees are university parallel programs and eligible for lower-division General Education requirement waivers.

Students who have earned an Associate of Applied Science (AAS) degree from the Virginia Community College System that includes the required General Education courses have met all lower-division General Education requirements except those specified as major or college requirements and the requirements for completion of the undergraduate writing program. College-parallel programs at other community colleges or systems (consistent with the requirements of degrees from the Virginia Community College System) are also accepted as meeting lower-division General Education requirements and are reviewed by the Office of Undergraduate Admissions. Transfer students should be aware that even though University lower-division General Education Requirements may have been met, college, school and/or departmental requirements must still be met. Students must earn a grade of C (2.0) or better in order to receive the credit hours associated with classes taken at other regionally accredited institutions.

Policies governing the transfer of General Education Requirements can be found in the Admissions section of this catalog. See the transfer student website for the complete listing of articulation agreements at: https://www.odu.edu/transfer/transfer-pathways/.

**Lower-Division Requirements (freshman and sophomore years)**

**I. Skills**

Completion of course work in the skills areas ensures that all students possess the basic tools with which to pursue their major interests.

**A. Written Communication**

Students are advised to consult the department of their major program and the Undergraduate Writing Program Requirements section of this catalog.

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 110C</td>
<td>English Composition (grade of C or better required)</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 211C</td>
<td>Introduction to Academic Writing (grade of C or better required)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 221C</td>
<td>Introduction to Writing in Business, Education and Social Sciences (grade of C or better required)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 231C</td>
<td>Introduction to Technical and Scientific Writing (grade of C or better required)</td>
<td>3</td>
</tr>
</tbody>
</table>

Undergraduate students must pass ENGL 110C with a grade of C (2.0) or better in order to qualify to register for ENGL 211C or ENGL 221C or ENGL 231C.

Students must also pass ENGL 211C or ENGL 221C or ENGL 231C with a grade of C (2.0) or better to qualify to register for a writing intensive (W) course.

**Total Hours** 6

A portfolio waiver option is available for ENGL 110C and ENGL 211C/ENGL 221C/ENGL 231C. Please refer to the section on Academic Testing and Placement (http://catalog.odu.edu/undergraduate/studentresourcesandservices/#academictestingandplacement) in this Catalog for more information.

**B. Oral Communication**

Select one of the following courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 101R</td>
<td>Public Speaking</td>
</tr>
</tbody>
</table>
Students may meet this requirement by completing an oral communication course appropriate to the student’s program of study or through an approved course(s) within the major. Students are advised to consult the department of their major program.

Majors approved to meet this requirement through major courses are: College of Arts and Letters – communication, French, German, music composition, music education, Spanish, teacher preparation majors in French, German, and Spanish, and all theatre arts majors; College of Education and Professional Studies - human services, occupational and technical studies concentrations in industrial technology and training specialist; College of Health Sciences - medical laboratory sciences, nursing, dental hygiene, health sciences health services administration major, health sciences cytotechnology track and public health; and College of Sciences - ocean and earth science.

Students who complete the required courses in their major that meet oral communication and then change to a major that does not meet the requirement through courses in the major will have met the oral communication requirement for the new major.

C. Mathematics

Select one of the following courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 101M</td>
<td>An Introduction to Mathematics for Critical Thinking</td>
</tr>
<tr>
<td>MATH 102M</td>
<td>College Algebra</td>
</tr>
<tr>
<td>MATH 103M</td>
<td>College Algebra with Supplemental Instruction</td>
</tr>
<tr>
<td>MATH 162M</td>
<td>Precalculus I</td>
</tr>
<tr>
<td>STAT 130M</td>
<td>Elementary Statistics</td>
</tr>
</tbody>
</table>

Total Hours 3

For the appropriate course, the major program should be consulted. Some programs require more advanced 200-level courses.

Students should strive to complete the mathematics General Education requirement within their first 30 hours at Old Dominion University and are expected to have completed the requirement before the end of their first 60 hours at the University. Students should be aware that waivers of the mathematics General Education requirement are not granted, and all students are required to complete this requirement before graduating.

D. Language and Culture*

Select 6 hours from the following courses unless the language requirement was met through high school coursework, transfer credit, or exemption.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARAB 111F</td>
<td>Beginning Arabic</td>
</tr>
<tr>
<td>CHIN 111F</td>
<td>Beginning Chinese</td>
</tr>
<tr>
<td>FR 101F</td>
<td>Beginning French I</td>
</tr>
<tr>
<td>FR 102F     &amp; FR 102F &amp; Beginning French II</td>
<td></td>
</tr>
<tr>
<td>GER 101F    &amp; GER 102F &amp; Beginning German I</td>
<td></td>
</tr>
<tr>
<td>HEBR 111F   &amp; Beginning Hebrew I</td>
<td></td>
</tr>
<tr>
<td>ITAL 101F   &amp; Beginning Italian I</td>
<td></td>
</tr>
<tr>
<td>ITAL 102F   &amp; Beginning Italian II</td>
<td></td>
</tr>
<tr>
<td>JAPN 111F</td>
<td>Beginning Japanese</td>
</tr>
<tr>
<td>LATN 101F   &amp; Beginning Latin I</td>
<td></td>
</tr>
<tr>
<td>LATN 102F   &amp; Beginning Latin II</td>
<td></td>
</tr>
<tr>
<td>PRTG 101F   &amp; Beginning Portuguese I</td>
<td></td>
</tr>
<tr>
<td>PRTG 102F   &amp; Beginning Portuguese II</td>
<td></td>
</tr>
<tr>
<td>RUS 101F    &amp; Beginning Russian I</td>
<td></td>
</tr>
<tr>
<td>RUS 102F    &amp; Beginning Russian II</td>
<td></td>
</tr>
<tr>
<td>SPAN 101F &amp; SPAN 102F &amp; Beginning Spanish I &amp; Beginning Spanish II</td>
<td></td>
</tr>
<tr>
<td>SPAN 121F</td>
<td>Intensive Beginning Spanish</td>
</tr>
</tbody>
</table>

Total Hours 6

111F courses are six credit hours each. Students may meet the language and culture requirement by successfully completing the third level in one foreign language or the second level in each of two foreign languages in high school or by completing a single foreign language at the 102F or 111F level or equivalent work from another institution. Students who have had some foreign language experience but are unable to be exempted from this requirement may complete just the 121F course in the case of Spanish or the 102F course in foreign languages if scores on the CEEB Foreign Language Achievement Test so indicate.

The College of Arts and Letters requires foreign language proficiency at the fourth-semester level for students pursuing Bachelor of Arts degrees.

Students whose native language is not English are exempt from taking a foreign language for General Education. Students pursuing degrees that require proficiency beyond the 100 level must be certified by the World Languages and Cultures Department to obtain a waiver of the 200-400 level courses.

American Sign Language courses taken in high school or transferred to Old Dominion University from another institution are accepted by Old Dominion University to meet General Education requirements in language and culture. American Sign Language courses transferred from another institution are accepted to meet the foreign language requirement for BA degrees in the College of Arts and Letters except for Asian Studies, foreign languages and international studies.

* Does not apply to students earning high school diplomas before December 31, 1985.

E. Information Literacy and Research

Select one of the following courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 160G</td>
<td>Introduction to Chemistry and Biochemistry</td>
</tr>
<tr>
<td>COMM 272G</td>
<td>Digital Literacy</td>
</tr>
<tr>
<td>COMM 278G</td>
<td>Advertising &amp; Society</td>
</tr>
<tr>
<td>CS 120G</td>
<td>Introduction to Information Literacy and Research</td>
</tr>
<tr>
<td>CS 121G</td>
<td>Introduction to Information Literacy and Research for Scientists</td>
</tr>
<tr>
<td>CS/CYSE/PHIL 202G</td>
<td>Information Literacy for Cybersecurity</td>
</tr>
<tr>
<td>HLTH 120G</td>
<td>Information Literacy for Health Professions</td>
</tr>
<tr>
<td>HNRS 250G</td>
<td>Media and Info Literacy in the Google Age</td>
</tr>
<tr>
<td>IT 150G</td>
<td>Basic Information Literacy and Research</td>
</tr>
<tr>
<td>LIBS 110G</td>
<td>Information Literacy for the Digital Age</td>
</tr>
<tr>
<td>OEAS 130G</td>
<td>Research Skills and Information Literacy for the Natural Sciences</td>
</tr>
<tr>
<td>PHIL 290G</td>
<td>Philosophy of Digital Culture</td>
</tr>
<tr>
<td>REL 147G</td>
<td>Cults and Conspiracies</td>
</tr>
<tr>
<td>REL 260G</td>
<td>Muslims &amp; Media</td>
</tr>
<tr>
<td>STEM 251G</td>
<td>Computer Literacy: Communication and Information</td>
</tr>
</tbody>
</table>

Total Hours 3

Students may meet this requirement in the major and are advised to consult the department of their major program.

Majors approved to meet this requirement through major courses are: College of Arts and Letters – African American and African Studies depending on elective choice, Asian Studies depending on elective choice, geography, history, history teacher preparation, international studies
Courses that meet the human behavior Way of Knowing are:

A. Human Behavior

The objective of this Way of Knowing is to enable students to learn about human behavior in changing contexts. The courses will address how ideological, scientific, and ethical judgments affect human behavior in Western and non-Western cultures. They will also offer perspectives on the challenges, concerns, and contributions of diverse groups such as women and minorities.

Courses that meet the human behavior Way of Knowing are:

Select one of the following courses

- AAST 100S Introduction to African American Studies
- ANTR 110S Introduction to Anthropology
- COMM 200S Introduction to Human Communication
- CPD/SOC 100S Leadership and Society
- CRJS 215S Introduction to Criminology
- CYSE 215S Cybersecurity and the Social Sciences
- ECON 200S Basic Economics
- ECON 201S Principles of Macroeconomics
- ECON 202S Principles of Microeconomics
- ENTR 201S Introduction to Entrepreneurship
- FOUN 101S Learning to Learn
- FIN 210S Personal Financial Literacy
- GEOG 100S Human Geography
- GEOG 101S Environmental Geography
- HMS 200S Personal Health and Wellness
- POLS 100S Introduction to International Politics
- POLS 101S Introduction to American Politics
- POLS 102S Introduction to Comparative Government and Politics
- PRTS 210S Leisure and Human Behavior
- PSYC 201S Introduction to Psychology
- PSYC 203S Lifespan Development
- SEPS 203S Dress, Culture and Society
- SOC 201S Introduction to Sociology
- SOC 203S Diversity and Society

II. Ways of Knowing

Courses in the Ways of Knowing develop the students’ critical and analytical thinking abilities. They also develop understanding of the various approaches to knowledge, the contributions various academic disciplines can make to solving specific problems, and the effective use of the English language. Courses in the Ways of Knowing also develop and reinforce written communication skills and include relevant insights into technology. In addition, courses within each Way of Knowing focus on objectives unique to that way of knowing.

A. Human Behavior

The objective of this Way of Knowing is to enable students to learn about human behavior in changing contexts. The courses will address how ideological, scientific, and ethical judgments affect human behavior in Western and non-Western cultures. They will also offer perspectives on the challenges, concerns, and contributions of diverse groups such as women and minorities.

Courses that meet the human behavior Way of Knowing are:

Select one of the following courses

- AAST 100S Introduction to African American Studies
- ANTR 110S Introduction to Anthropology
- COMM 200S Introduction to Human Communication
- CPD/SOC 100S Leadership and Society
- CRJS 215S Introduction to Criminology
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- PSYC 201S Introduction to Psychology
- PSYC 203S Lifespan Development
- SEPS 203S Dress, Culture and Society
- SOC 201S Introduction to Sociology
- SOC 203S Diversity and Society

B. Human Creativity

This Way of Knowing emphasizes artistic creative endeavor and appreciation and the history of the arts. The courses include field experience with the professional arts community in Hampton Roads as well as with the faculty of relevant departments. The objectives are to foster an appreciation of aesthetic experiences, develop abilities to make reasoned aesthetic judgments and develop an understanding of diverse cultures.

Courses that meet the human creativity Way of Knowing are:

Select one of the following courses

- ARTH 121A Introduction to the Visual Arts
- ARTS 122A Visual Communication
- COMM/THEA Film Appreciation
- DANC 185A Dance and Its Audience
- MUSC 264A Music in History and Culture
- SEPS 223A Visual Merchandising and Display
- THEA 241A The Theatre Experience

C. Interpreting the Past

The objective of this Way of Knowing is to provide an understanding of historical analysis for non-history majors.

Courses that meet the interpreting the past Way of Knowing are:

Select one of the following courses

- HIST 100H Interpreting the World Past Since 1500
- HIST 101H Interpreting the Asian Past
- HIST 102H Interpreting the European Past
- HIST 103H Interpreting the Latin America Past
- HIST 104H Interpreting the American Past
- HIST 105H Interpreting the African Past
- THEA 243H Theatre Histories

D. Literature

This Way of Knowing emphasizes the contribution of literature to culture. Through critical reading and analysis, students will develop the ability to make effective use of the English language and informed aesthetic judgments about style and content.

Courses that meet the literature Way of Knowing are:

Select one of the following courses

- ENGL 112L Introduction to Literature
- ENGL 114L American Writers, American Experiences
- WCS 100L Introduction to World Literatures and Cultures

E. The Nature of Science

This Way of Knowing requires two semesters of natural science. A student may fulfill the requirement with two non-sequential natural science classes with labs unless a sequence is specifically required for the major. These courses introduce the disciplines and the methods of science and develop the abilities to make reasoned judgments based on scientific considerations.

Courses that meet the nature of science Way of Knowing are:

- WCS 112S Introduction to Earth Science
- WCS 114S Introduction to Ocean Science
- WCS 115S Introduction to Environmental Science
- WCS 116S Introduction to Physical Science
- WCS 117S Introduction to Life Science
- WCS 118S Introduction to Computer Science
- WCS 119S Introduction to Information Technology

Courses that meet the human behavior Way of Knowing are:

Select one of the following courses

- AAST 100S Introduction to African American Studies
- ANTR 110S Introduction to Anthropology
- COMM 200S Introduction to Human Communication
- CPD/SOC 100S Leadership and Society
- CRJS 215S Introduction to Criminology
- CYSE 215S Cybersecurity and the Social Sciences
- ECON 200S Basic Economics
- ECON 201S Principles of Macroeconomics
- ECON 202S Principles of Microeconomics
- ENTR 201S Introduction to Entrepreneurship
- FOUN 101S Learning to Learn
- FIN 210S Personal Financial Literacy
- GEOG 100S Human Geography
- GEOG 101S Environmental Geography
- HMS 200S Personal Health and Wellness
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- POLS 101S Introduction to American Politics
- POLS 102S Introduction to Comparative Government and Politics
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- PSYC 201S Introduction to Psychology
- PSYC 203S Lifespan Development
- SEPS 203S Dress, Culture and Society
- SOC 201S Introduction to Sociology
- SOC 203S Diversity and Society

Courses that meet the literature Way of Knowing are:

Select one of the following courses

- ENGL 112L Introduction to Literature
- ENGL 114L American Writers, American Experiences
- WCS 100L Introduction to World Literatures and Cultures

Undergraduate Degree Requirements
Courses that meet the philosophy and ethics Way of Knowing are:

- Decision-making in professional disciplines.
- Understanding how philosophical and ethical issues affect them.
- Making informed, intelligent choices.
- Accelerating change and interdependency in the world.

Because of the many decisions students will be called upon to make in their personal and professional lives, they will need an appreciation and understanding of philosophical, religious, and ethical foundations to help them make informed, intelligent choices. Further, as the pace of change and interdependency in the world accelerates, it is important that students develop their abilities to make reasoned judgments about the impact of technology on individuals and societies.

Courses in the impact of technology Way of Knowing are intended to develop students' abilities to make reasoned judgments about the impact of technological development upon world cultures and the environment as well as upon individuals and societies.

Courses that meet the impact of technology Way of Knowing are:

Select one of the following courses

- Introduction to Philosophy
- Logic and Philosophy
- Life, Death, and Meaning
- Human Nature
- Introduction to Ethics
- Love, Sex, and Desire
- World Religions: Beliefs and Values
- Introduction to Game Studies
- Digital Writing
- Introduction to Game Studies
- Digital Earth: Geospatial Technology and Society
- Hazards: Natural and Technological
- History of Medicine, Disease, and Health Care
- Discovering Earth's History
- Technology and Civilization
- The Evolution of Modern Science
- Principles of Information Technology
- Music Technology Survey
- Introduction to Meteorology
- Philosophy of Technology & Innovation

Total Hours: 8

F. Philosophy and Ethics

Select one of the following courses

- Introduction to Philosophy
- Logic and Philosophy
- Life, Death, and Meaning
- Human Nature
- Introduction to Ethics
- Love, Sex, and Desire
- World Religions: Beliefs and Values

Total Hours: 3

PHIL 270P Truth and Perception
PHIL 303E Business Ethics
PHIL 344E Environmental Ethics
PHIL 345E Bioethics
PHIL 355E Cybersecurity Ethics
PHIL 442E Studies in Applied Ethics

Students who complete the required courses in their major that meet philosophy and ethics and then change to a major that does not meet the requirement through courses in the major will have met the philosophy and ethics requirement for the new major.

G. Impact of Technology

It is important for students to understand not only how a technology functions, but also how technology affects society.

Courses in the impact of technology Way of Knowing are intended to develop students' abilities to make reasoned judgments about the impact of technological development upon world cultures and the environment as well as upon individuals and societies.

Courses that meet the impact of technology Way of Knowing are:

Select one of the following courses

- Elements of Data Science
- Diseases that Changed our World
- Influence of Polymers on Society
- Nutritional Biochemistry
- Neurotechnology
- The Chemistry of the Environment
- Science and Technology in Art
- Entertainment Technologies
- Introduction to New Media Technologies
- Computers in Society
- Cybersecurity, Technology, and Society
- Telehealthcare Technology
- Digital Writing
- Introduction to Game Studies
- Digital Earth: Geospatial Technology and Society
- Hazards: Natural and Technological
- History of Medicine, Disease, and Health Care
- Discovering Earth's History
- Technology and Civilization
- The Evolution of Modern Science
- Principles of Information Technology
- Music Technology Survey
- Introduction to Meteorology
- Philosophy of Technology & Innovation
The impact of technology way of knowing can also be met by major requirements. Students are advised to consult the department of their major program. Majors approved to meet this requirement through major courses are: College of Arts and Letters – communication depending on elective choice, dance education, English teacher preparation, fine arts and studio arts depending on elective choice, French teacher preparation, geography depending on elective choice, German teacher preparation, history depending on elective choice, history teacher preparation, interdisciplinary studies majors in individualized integrative studies, interdisciplinary studies majors in cybercrime, game studies and design, general engineering technology, leadership, and professional writing depending on elective choice, all music majors; Spanish teacher preparation, theatre education, and women’s studies; College of Business—all majors; College of Education and Professional Studies—early childhood education, elementary education, exercise science, health and physical education teacher preparation, marketing education, all majors in occupational and technical studies, special education, and technology education; College of Engineering and Technology—all majors; College of Health Sciences—health sciences health services administration major and public health; College of Sciences - computer science, and ocean and earth science; School of Cybersecurity - cyber operations, cybersecurity.

Students who complete the required courses in their major that meet the requirement through major courses in the major will have met the impact of technology requirement for the new major.

### Honors Courses that Meet General Education Requirements*

#### Skills

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 126C</td>
<td>Honors: English Composition</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 226C</td>
<td>Honors: Introduction to Academic Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 227C</td>
<td>Honors: Introduction to Writing in Business, Education and Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 228C</td>
<td>Honors: Introduction to Technical and Scientific Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Oral Communication

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 126R</td>
<td>Honors: Public Speaking</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Information Literacy and Research

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 126G</td>
<td>Honors: Introduction to Information Literacy and Research</td>
<td>3</td>
</tr>
<tr>
<td>REL 226G</td>
<td>Honors: Muslims &amp; Media</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Human Behavior

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 226S</td>
<td>Honors: Introduction to Human Communication</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 226S</td>
<td>Honors: Introduction to Criminology</td>
<td>3</td>
</tr>
<tr>
<td>ECON 225S</td>
<td>Honors: Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 227S</td>
<td>Honors: Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 12S</td>
<td>Honors: Cultural Geography</td>
<td>3</td>
</tr>
<tr>
<td>POLS 12S</td>
<td>Honors: Introduction to American Politics</td>
<td>3</td>
</tr>
<tr>
<td>POLS 127S</td>
<td>Honors: Introduction to International Politics</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 22S</td>
<td>Honors: Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 22S</td>
<td>Honors: Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>WMST 22S</td>
<td>Honors: Gender and Sexuality in a Changing World</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Human Creativity

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTS 126A</td>
<td>Honors: Art as Experience</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 127A</td>
<td>Honors: Introduction to the Visual Arts</td>
<td>3</td>
</tr>
<tr>
<td>COMM 227A</td>
<td>Honors: Film Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 126A</td>
<td>Honors: Music in History and Culture</td>
<td>3</td>
</tr>
<tr>
<td>THEA 227A</td>
<td>Honors: Film Appreciation</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Interpreting the Past

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 126H</td>
<td>Honors: Interpreting the American Past</td>
<td>3</td>
</tr>
<tr>
<td>HIST 127H</td>
<td>Honors: Interpreting the European Past</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Literature

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 127L</td>
<td>Honors: Introduction to Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

#### The Nature of Science

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 136N</td>
<td>Honors General Biology I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; BIOL 137N</td>
<td>Honors General Biology I Lab</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 138N</td>
<td>Honors General Biology II</td>
<td>4</td>
</tr>
<tr>
<td>&amp; BIOL 139N</td>
<td>Honors General Biology II Lab</td>
<td>4</td>
</tr>
<tr>
<td>OEAS 126N</td>
<td>Honors: Introductory Oceanography</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 126N</td>
<td>Honors: Introductory Astronomy</td>
<td>8</td>
</tr>
<tr>
<td>&amp; PHYS 127N</td>
<td>Honors: Introductory Astronomy</td>
<td>8</td>
</tr>
<tr>
<td>PHYS 226N</td>
<td>Honors: University Physics I</td>
<td>8</td>
</tr>
<tr>
<td>&amp; PHYS 227N</td>
<td>Honors: University Physics II</td>
<td>8</td>
</tr>
</tbody>
</table>

#### Philosophy and Ethics

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 126P</td>
<td>Honors: Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 227E</td>
<td>Honors: World Religions: Beliefs and Values</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 228E</td>
<td>Honors: Introduction to Ethics</td>
<td>3</td>
</tr>
</tbody>
</table>

* Courses listed are open only to students in the Perry Honors College.

### Upper-Division Requirements (junior and senior years)

#### Writing Intensive Course in the Major

All students are required to demonstrate written communication skills in the major by taking a Writing Intensive (W) course at the upper-division level. All undergraduate students must complete their W course in the major (3 credits) at Old Dominion University and earn a grade of C (2.0) or better in order to earn a baccalaureate degree.

**Criteria for Writing Intensive courses include:**

1. Students will demonstrate, in a series of individual (not group) assignments, their mastery of the subject in a discipline, through the writing of formal documents.

2. For each writing assignment, the instructor will provide feedback to the student, evaluating content and writing style (organization, development, logic, coherence and mechanics).

3. Types of documents for writing assignments include essays, laboratory reports, project reports, critiques of performances, research proposals, case studies, journal article reviews, book reviews, creative writing, written interviews, and other forms appropriate to a particular discipline.

4. A maximum of 10% total of identified graded writing in the form of essays for tests, quizzes, and/or a mid-term examination (not a final exam) may be included. It is to be evaluated for both content and writing style as indicated in (b) above.

5. Graded writing requirements comprise at least 51% of the overall course grade.

#### Upper-Division Studies Outside the Major

Students are required to complete Option A, B, C or D to meet the upper-division general education requirement. In addition to the completion of courses in the area of the major field, a candidate for a baccalaureate
degree may select Option A, any University-approved minor, second degree or second major. The minor may be chosen to support the major, to offer greater job opportunities to the student on graduation, or to provide academic recognition of study in a second disciplinary area. A baccalaureate degree candidate may also choose an integrative disciplinary experience through the selection of Option B, an Interdisciplinary Minor; Option C, an approved Certification Program such as Teaching Licensure; or Option D, six hours of elective upper-division course work from outside of and not required by the student’s major and college. In the College of Arts and Letters, courses are divided into two components for option D: (1) Arts and Humanities and (2) Social Sciences.

**Option A: Any University-approved minor (minimum of 12 hours determined by the department), second degree, or second major**

Students who complete the course requirements for the minor, but who do not attain a 2.00 grade point average in the minor, may request that the course work be approved to meet the upper-division general education requirement. The request may be initiated through the student’s advisor and the associate dean of their college and submitted to the assistant vice president for undergraduate studies in the Office of Academic Affairs. Students whose requests are approved will meet the upper-division requirement, but they will not receive credit for the minor.

**Option B: Any University-approved interdisciplinary minor (specifically 12 hours, three of which may be in the major)**

Three credit hours in the interdisciplinary minor may be in the major if a major course is listed as an option for the interdisciplinary minor. As such, it will be credited toward both the major and the interdisciplinary minor. Interdisciplinary minors require 12 credit hours of 300/400-level courses selected from at least two different disciplines with a maximum of six credits from any one discipline. Course substitutions may be approved by the interdisciplinary minor coordinator.

Approved interdisciplinary minors are as follows.

**Administrative Leadership and Ethics for Professional Roles Interdisciplinary Minor**

James Van Dore, Department of Philosophy and Religious Studies, Coordinator

The intent of the Administrative Leadership and Ethics for Professional Roles interdisciplinary minor is to develop management-related skills. The minor is designed to improve the student’s professionalism through an understanding of applied ethics, effective communication, processes in organizations, applied psychology, and legal issues in the workplace. An appreciation for the qualities of leadership, the functions of administration, and a sensitivity for ethical decision making will allow the student to apply for a wider variety of positions.

Course options are as follows:

- **CHP 400** Ethics in Health Administration 3
- **CHP 450** Public and Community Health Administration 3
- **CHP 480** Health Ethics and the Law 3
- **COMM 351** Interpersonal Communication in Organizations 3
- **DNTH 416** Administrative Leadership and Professional Development 3
- **ENGL 486** Media Law and Ethics 3
- **ENVH 402W** Environmental and Occupational Health Administration and Law 3
- **HLTH 425** Leadership and Management for Health Professionals 3
- **MGMT 325** Contemporary Organizations and Management 3
- **MGMT 350** Employee Relations Problems and Practices 3
- **MKTG 414** Ethics and Social Issues in Administration 3
- **MLS 403W** Management in the Clinical Setting 3
- **NMED 475W** Administration and Management in Nuclear Medicine Technology 3
- **NURS 480W** Nursing in the Health Care System: Leadership 3
- **NURS 490W** Nursing Leadership 3
- **PAS 301** Ethics, Governance and Accountability in Public Service 3
- **PHIL 303E** Business Ethics 3
- **PHIL 344E** Environmental Ethics 3
- **PHIL 345E** Bioethics 3
- **PHIL 355E** Cybersecurity Ethics 3
- **PSYC 303** Industrial/Organizational Psychology 3
- **SMGT 450W** Ethics and Morality in Sport 3

### Biomedical Engineering Interdisciplinary Minor

Dharmakeerthi Nawarathna, Department of Electrical and Computer Engineering, Coordinator

This interdisciplinary minor is for students who would like to learn about processes encountered in biomedical engineering innovation and enhance their ability to integrate knowledge from different disciplines with principles used in biomedical engineering. The minor offers an opportunity for students to be recognized for study in this growing multidisciplinary field and to enhance competitiveness for job opportunities upon graduation.

Course prerequisites for BME 403, BME 404, BME 405, and BME 409 are BIOL 240 or BIOL 250 and MATH 200, MATH 205 or MATH 211. Prerequisite courses are not included in the calculation of the grade point average for the minor.

Course requirements are as follows:

Select two of the following BME courses: 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BME 403</td>
<td>Introduction to Mathematical Modeling in Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BME 404</td>
<td>Introduction to Biomaterials</td>
<td>3</td>
</tr>
<tr>
<td>BME 405</td>
<td>Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>BME 409</td>
<td>Introduction to Regenerative Medicine</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two elective courses from the following: 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 446</td>
<td>Comparative Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 460</td>
<td>Frontiers in Nanoscience and Nanotechnology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 490</td>
<td>Advanced Human Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 496</td>
<td>Topics in Biological Sciences (approved by minor advisor)</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 443</td>
<td>Intermediate Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>EXSC 322</td>
<td>Anatomical Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>EXSC 417</td>
<td>Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>ECE 454</td>
<td>Introduction to Bioelectronics</td>
<td>3</td>
</tr>
<tr>
<td>ECE 462</td>
<td>Introduction to Medical Image Analysis (MIA)</td>
<td>3</td>
</tr>
<tr>
<td>ECE 464</td>
<td>Biomedical Applications of Low Temperature Plasmas or BIOL 464</td>
<td>3</td>
</tr>
<tr>
<td>ELEC 465</td>
<td>Biomedical Applications of Low Temperature Plasmas</td>
<td>3</td>
</tr>
<tr>
<td>HNSC 405</td>
<td>Interprofessional Study Abroad on Global Health</td>
<td>3</td>
</tr>
<tr>
<td>MAE 303</td>
<td>Mechanics of Fluids</td>
<td>3</td>
</tr>
<tr>
<td>MAE 440</td>
<td>Introduction to Finite Element Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MLS 324</td>
<td>Clinical Instrumentation</td>
<td>3</td>
</tr>
<tr>
<td>MSIM 451</td>
<td>Analysis for Modeling and Simulation</td>
<td>3</td>
</tr>
</tbody>
</table>
Students have the option to substitute one course from those that satisfy their major requirements for one of the minor electives with approval of the minor coordinator.

Students interested in medical simulation are encouraged to select their electives from ECE 462 and MAE 440.

### Children’s Rights Interdisciplinary Minor

**Jeehye Kang, Sociology and Criminal Justice, Coordinator**

This interdisciplinary minor is focused on the exploration of child rights within and across diverse disciplines and in the U.S. and internationally. This perspective challenges approaches in the various disciplines that have in their study of children traditionally denied or failed to recognize children’s human rights and dignity. In place of the traditional perspectives, courses in this interdisciplinary minor frame the study of children within the larger framework of human rights, more specifically, children’s rights and status as a group within society in social science research and theory, literature, the arts, humanities, education, counseling, law and public policy.

Course options are as follows:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 427</td>
<td>Children’s Communication Theory and Research</td>
<td>3</td>
</tr>
<tr>
<td>CRJS/SOC 403</td>
<td>Violence in the World of Children</td>
<td>3</td>
</tr>
<tr>
<td>CRJS/SOC 408</td>
<td>Children’s Rights and the Law</td>
<td>3</td>
</tr>
<tr>
<td>HMSV 448</td>
<td>Interventions and Advocacy with Children</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 351</td>
<td>Child Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 402</td>
<td>Sociology of Child Welfare</td>
<td>3</td>
</tr>
<tr>
<td>TLED 476</td>
<td>Practical Applications in the World of Children</td>
<td>3</td>
</tr>
</tbody>
</table>

### Cybercrime Interdisciplinary Minor

**Roderick Graham, Program Coordinator and Faculty Advisor (rgraham@odu.edu)**

The interdisciplinary minor in cybercrime provides students with an understanding of crime and deviance in the digital environment. Students will be required to take two introductory courses in the cybercrime and cybersecurity majors, respectively. In these core courses, students will learn the fundamental issues involved in cybercrime (computer system architectures, critical infrastructures, cyber threats and vulnerabilities) and cybercrime (defining and describing the different types of computer-related crimes, the techniques used by law enforcement, and the legal issues inherent in combating cybercrime). They can then expand their knowledge by taking electives in psychology, political science, criminal justice, information technology, or cybersecurity. The minor aspires to develop graduates who can think critically about how human behavior impacts and is impacted by computer technologies.

Course substitutions may be approved by the interdisciplinary minor coordinator.

**Prerequisite**

- CRJS 215S: Introduction to Criminology

**Core**

- CRJS 310: Cybercriminology: Foundations
- CYSE 300: Introduction to Cybersecurity

**Electives**

- CRJS 340: White-Collar Crime
- CRJS 344: Social Science and Crime Mapping
- IT 315: Introduction to Networking and Security
- IT 360T: Principles of Information Technology
- CRJS/CYSE 406: Cyber Law
- CRJS 395/396/495/496: Topics in Criminal Justice

### Cybersecurity Interdisciplinary Minor

**Saltuk Karahan, School of Cybersecurity, Coordinator (skarahan@odu.edu)**

This interdisciplinary minor in cybersecurity is focused on the technological, structural, social, and legal frameworks used to secure computer networks and software. The study of cybersecurity combines multiple fields including computer science, engineering, information technology, criminal justice, and philosophy, to name a few. In an effort to promote the security of computer networks, software, and cyber information, an interdisciplinary understanding about technological, legal, philosophical, and structural aspects of cybersecurity is needed. This minor will provide students from different majors the knowledge they need to prevent or respond to cyber incidents they are likely to encounter in their careers.

Course options are as follows:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJS 310</td>
<td>Cybercriminology: Foundations</td>
<td>3</td>
</tr>
<tr>
<td>CS 462</td>
<td>Cybersecurity Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>or ECE/MSIM 470</td>
<td>Foundations of Cyber Security</td>
<td>3</td>
</tr>
<tr>
<td>CS 463</td>
<td>Cryptography for Cybersecurity</td>
<td>3</td>
</tr>
<tr>
<td>CS 464</td>
<td>Networked Systems Security</td>
<td>3</td>
</tr>
<tr>
<td>CS 465</td>
<td>Information Assurance for Cybersecurity</td>
<td>3</td>
</tr>
<tr>
<td>CS 466</td>
<td>Principles and Practice of Cyber Defense</td>
<td>3</td>
</tr>
<tr>
<td>CYSE 300</td>
<td>Introduction to Cybersecurity</td>
<td>3</td>
</tr>
<tr>
<td>CYSE 301</td>
<td>Cybersecurity Techniques and Operations</td>
<td>3</td>
</tr>
<tr>
<td>CYSE 406</td>
<td>Cyber Law</td>
<td>3</td>
</tr>
<tr>
<td>CYSE 407</td>
<td>Digital Forensics</td>
<td>3</td>
</tr>
<tr>
<td>ECE 416</td>
<td>Cyber Defense Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>or MSIM 416</td>
<td>Cyber Defense Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ECE 419</td>
<td>Cyber Physical System Security</td>
<td>3</td>
</tr>
<tr>
<td>or MSIM 419</td>
<td>Cyber Physical Systems Security</td>
<td>3</td>
</tr>
<tr>
<td>EET 405</td>
<td>Data Communications and Computer Networks</td>
<td>3</td>
</tr>
<tr>
<td>or EET 412</td>
<td>Wireless Communication Systems</td>
<td>3</td>
</tr>
<tr>
<td>IT 416</td>
<td>Network Server Configuration and Administration</td>
<td>3</td>
</tr>
<tr>
<td>IT 417</td>
<td>Management of Information Security</td>
<td>3</td>
</tr>
<tr>
<td>IT 418</td>
<td>Enterprise Information Assurance</td>
<td>3</td>
</tr>
<tr>
<td>IT 419</td>
<td>Enterprise Cyber Defense</td>
<td>3</td>
</tr>
<tr>
<td>IT 461</td>
<td>Implementing Internet Applications</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 355E</td>
<td>Cybersecurity Ethics</td>
<td>3</td>
</tr>
<tr>
<td>RMI 443</td>
<td>Enterprise Risk Management</td>
<td>3</td>
</tr>
<tr>
<td>or RMI 412</td>
<td>Property &amp; Liability Insurance Company Operations</td>
<td>3</td>
</tr>
</tbody>
</table>

The interdisciplinary minor in cybersecurity requires 12 credit hours of 300/400-level courses selected from at least two different disciplines with a maximum of six credits from any one discipline. For completion of the interdisciplinary minor, students must have a minimum overall cumulative grade point average of 2.00 in all courses specified as a requirement for the
minor exclusive of lower-level courses and prerequisite courses. At least six hours of upper-level courses must be taken through courses offered by Old Dominion University. Three credit hours may be in the major, if a major course is listed as an option for the interdisciplinary minor. As such, it will be credited toward both the major and the interdisciplinary minor.

The Designed World Interdisciplinary Minor
Agnieszka Whelan, Department of Art, Coordinator

This interdisciplinary minor explores the interwoven historical, cultural, aesthetic, perceptual, and technical domains of the designed world. That virtually all aspects of the human-built world are designed is a generally accepted belief; however, it is not given the careful scrutiny it deserves. Creative planning and critical analysis of design dynamics are emphasized within the context of these course offerings.

Course options are as follows:

- ARTH 320W: History of Graphic Design (3)
- ARTH 327: History of Photography (3)
- ARTH 435W: Modern Architecture (3)
- ARTS 455: Letterpress Printmaking (3)
- COMM 341: Lighting Design for Stage and Film (3)
- COMM 349: Costume Design for Stage and Camera (3)
- COMM 370: The Video Project (3)
- ENGL 371W: Communication Across Cultures (3)
- ENGL 382: Reporting News for Television and Digital Media (3)
- ENGL 477: Language, Gender and Power (3)
- GEOG 310: Geography of the City (3)
- GEOG 412: Cities of the World (3)
- PSYC 344: Human Factors (3)
- PSYC 413: Sensation and Perception (3)
- SEPS 422: Fashion Product Development (3)
- STEM 382: Industrial Design (3)

Energy Engineering Interdisciplinary Minor
Sandeep Kumar, Department of Civil and Environmental Engineering, Coordinator

This interdisciplinary minor is for students who would like to learn about energy engineering fundamentals, socio-environmental impacts of energy systems, and novel energy engineering technologies. The minor will enhance students' abilities to integrate knowledge from different disciplines with concepts used in energy engineering and offer students the opportunity to be recognized for study in this growing interdisciplinary field.

The course requirements are as follows:

Four courses chosen from: 12

- CET 355: Sustainable Building Practices
- CEE 458: Sustainable Development
- CEE 459: Biofuels Engineering
- ECE 303: Introduction to Electrical Power
- ECE 403: Power Electronics
- ECE 471: Introduction to Solar Cells
- ECON 447W: Natural Resource and Environmental Economics
- EET 340: Transmission Networks
- EET 370: Energy and The Environment
- EET 483: Introduction to Smart Grids
- EET 485: Electrical Power Systems
- ENMA 301: Introduction to Engineering Management
- ENMA 302: Engineering Economics
- MAE 411: Mechanical Engineering Power Systems Theory and Design

- MAE 413: Energy Conversion
- MAE 416: Introduction to Solar Energy Engineering
- MET 300: Thermodynamics
- MET 450: Energy Systems
- MET 471: Nuclear Systems I
- ODES 415: Waves and Tides
- PHYS 415: Introduction to Nuclear and Particle Physics

One course relevant to energy engineering from the student’s major can also be used as a minor course with the approval of the minor coordinator.

Entrepreneurship Interdisciplinary Minor
The entrepreneurship interdisciplinary minor is intended to prepare students to solve business and social problems by creating new ventures within or outside existing organizations.

Requirements for the minor are completion of 12 hours from the following.

- ENTR 301: Fundamentals of Entrepreneurship (3)
- ACCT 300: Accounting for Entrepreneurs (3)
- CHP 440: Finance and Budgeting in Healthcare (3)
- COMM 305: Work-Life Communication (3)
- COMM 351: Interpersonal Communication in Organizations (3)
- ENMA 401: Project Management (3)
- ENTR 410: Managing Small and Family Businesses (3)
- ENMA 421: Decision Techniques in Engineering (3)
- FIN 323: Introductory Financial Management (3)
- HNRS 401: Social Entrepreneurship (3)
- MGMT 336: International Entrepreneurship (3)
- MGMT 340: Human Resource Management (3)
- MGMT 424: Technology and Innovation Management (3)
- MKTG 311: Marketing Principles and Problems (3)
- MKTG 316: Professional Selling (3)
- MKTG 450: Marketing on the Internet (3)
- PSYC 344: Human Factors (3)
- PRTS 441: Marketing of Hospitality Services (3)
- SMGT 414: Sport Marketing (3)

Capstone-Project Course (select one of the following): 3

- ENMA 410: Agile Project Management (3)
- ENTR 368: Entrepreneurship Internship (3)
- ENTR 498: Tutorial Work in Special Topics in Entrepreneurship (3)
- MGMT 426: Entrepreneurship: New Ventures Creation (3)
- MGMT 495: Selected Topics in Management (Practical Entrepreneurship and New Venture Development) (3)
- SEPS 480: Senior Project: Merchandise Retailing (3)

Total Hours: 12

Environmental Issues and Management Interdisciplinary Minor
Sean Banaee, Department of Community and Environmental Health, Coordinator

Continuing environmental degradation is a worldwide problem threatening the quality of life and its viability. The problem can only be understood and addressed by drawing upon the resources of multidisciplinary approaches. The multidisciplinary perspective center of this minor focuses on the human dimensions of the human-environment equation and includes geographical and ecological approaches, scientific and technological methodologies,
planning and public policy issues, and ethical, political, economic, and legal considerations.

Course options are as follows:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE 350</td>
<td>Environmental Pollution and Control</td>
<td>3</td>
</tr>
<tr>
<td>CEE 458</td>
<td>Sustainable Development</td>
<td>3</td>
</tr>
<tr>
<td>ECON 435</td>
<td>Health Economics: A Global Perspective</td>
<td>3</td>
</tr>
<tr>
<td>ECON 447W</td>
<td>Natural Resource and Environmental Economics</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 402W</td>
<td>Environmental and Occupational Health Administration and Law</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 301</td>
<td>Principles of Environmental Health Science</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 420</td>
<td>Communicable Diseases</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 421</td>
<td>Food Safety</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 422</td>
<td>Water and Wastewater Technology</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 305</td>
<td>World Resources</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 306T</td>
<td>Hazards: Natural and Technological</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 400W</td>
<td>Seminar in Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 420</td>
<td>Marine Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 422W</td>
<td>Coastal Geography</td>
<td>3</td>
</tr>
<tr>
<td>OES 302</td>
<td>Environmental Geology</td>
<td>3</td>
</tr>
<tr>
<td>OES 310</td>
<td>Global Earth Systems</td>
<td>4</td>
</tr>
<tr>
<td>PAS 300</td>
<td>Foundations of Public Service</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 344E</td>
<td>Environmental Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 345E</td>
<td>Bioethics</td>
<td>3</td>
</tr>
<tr>
<td>POLS 300</td>
<td>Introduction to Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>POLS 335</td>
<td>Environmental Politics</td>
<td>3</td>
</tr>
<tr>
<td>POLS 401</td>
<td>Global Environmental Policy</td>
<td>3</td>
</tr>
<tr>
<td>PRTS 405</td>
<td>Outdoor Recreation</td>
<td>3</td>
</tr>
<tr>
<td>SOC 309</td>
<td>Population and Society</td>
<td>3</td>
</tr>
<tr>
<td>SOC 320</td>
<td>Social Inequality</td>
<td>3</td>
</tr>
<tr>
<td>SOC 325</td>
<td>Social Welfare</td>
<td>3</td>
</tr>
<tr>
<td>SOC 440</td>
<td>Health, Illness, and Society</td>
<td>3</td>
</tr>
<tr>
<td>SOC/CRJS 444</td>
<td>Community Justice</td>
<td>3</td>
</tr>
<tr>
<td>EXSC 408</td>
<td>Nutrition for Fitness and Sport</td>
<td>3</td>
</tr>
<tr>
<td>EXSC 415</td>
<td>Exercise Testing for Normal and Special Populations</td>
<td>4</td>
</tr>
<tr>
<td>HLSC 405</td>
<td>Interprofessional Study Abroad on Global Health</td>
<td>1-3</td>
</tr>
<tr>
<td>HPE 317</td>
<td>Human Growth &amp; Motor Development</td>
<td>3</td>
</tr>
<tr>
<td>HPE 400</td>
<td>Management Skills for Teaching Health and Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>HPE 402</td>
<td>Methods and Materials in Health Education</td>
<td>3</td>
</tr>
<tr>
<td>HPE 409</td>
<td>Physiology of Exercise</td>
<td>3</td>
</tr>
<tr>
<td>HPE 430</td>
<td>Nutrition and Fitness Education</td>
<td>3</td>
</tr>
<tr>
<td>HPE 450</td>
<td>Physiology of Exercise</td>
<td>3</td>
</tr>
<tr>
<td>HPS 405</td>
<td>Psychopathology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 306</td>
<td>Health Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 325</td>
<td>Drugs and Behavior</td>
<td>3</td>
</tr>
<tr>
<td>PSY 351</td>
<td>Child Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 353</td>
<td>The Psychology of Adulthood and Aging</td>
<td>3</td>
</tr>
<tr>
<td>PSY 363</td>
<td>Psychology of Sex</td>
<td>3</td>
</tr>
<tr>
<td>PSY 405</td>
<td>Psychopathology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 408</td>
<td>Theories of Personality</td>
<td>3</td>
</tr>
<tr>
<td>PSY 410</td>
<td>Human Cognition</td>
<td>3</td>
</tr>
<tr>
<td>PSY 420</td>
<td>Cross-Cultural Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 424</td>
<td>Physiological Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 460</td>
<td>Psychology of African Americans</td>
<td>3</td>
</tr>
<tr>
<td>SOC 440</td>
<td>Health, Illness, and Society</td>
<td>3</td>
</tr>
<tr>
<td>SPED 313</td>
<td>Fundamentals of Human Growth and Development: Birth through Adolescence</td>
<td>3</td>
</tr>
</tbody>
</table>

**Health and Wellness Interdisciplinary Minor**

Laura Hill, Department of Human Movement Sciences, Coordinator

The Health and Wellness interdisciplinary minor explores personal involvement in and commitment to health and wellness and the factors that influence the health status of individuals and society. This interdisciplinary minor also fosters an appreciation for personal responsibility for health and strategies to enhance and preserve the individual’s and the public’s health. Societal health and the factors that impact on the health and wellness of a community and the individual’s role in health policy are examined. Students gain an awareness of the cultural, psychological, sociological and ethical issues affecting and effected by the health and wellness of individuals and the society in which they live.

Course options are as follows:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHP 360</td>
<td>Introduction to Global Health</td>
<td>3</td>
</tr>
<tr>
<td>CHP 400</td>
<td>Ethics in Health Administration</td>
<td>3</td>
</tr>
<tr>
<td>CHP 420</td>
<td>Foundations of Gerontology</td>
<td>3</td>
</tr>
<tr>
<td>CHP 425</td>
<td>Health Aspects of Aging</td>
<td>3</td>
</tr>
<tr>
<td>CHP 456</td>
<td>Substance Use and Abuse</td>
<td>3</td>
</tr>
<tr>
<td>CHP 465</td>
<td>Policy and Politics of Health</td>
<td>3</td>
</tr>
<tr>
<td>CHP 470</td>
<td>Death, Dying and Survivorship</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 401</td>
<td>Understanding Violence</td>
<td>3</td>
</tr>
<tr>
<td>CRJS/SOC 421</td>
<td>Deviant Behavior</td>
<td>3</td>
</tr>
<tr>
<td>CRJS/SOC 427</td>
<td>Gender-Based Violence</td>
<td>3</td>
</tr>
<tr>
<td>CRJS/SOC 441</td>
<td>Drugs and Society</td>
<td>3</td>
</tr>
<tr>
<td>EXSC 403</td>
<td>Lifetime Fitness and Wellness</td>
<td>3</td>
</tr>
</tbody>
</table>

**The Impact of Technology Interdisciplinary Minor**

Philip A. Reed, Department of STEM Education and Professional Studies, Coordinator

This interdisciplinary minor develops a broader understanding of technology and its impact on individuals, societies, and the environment. It provides the social context and the historical and philosophical backgrounds needed by informed students to evaluate technology and its impacts. The minor equips students with skills to make better personal decisions about technology and more appropriate choices for their futures.

Course options are as follows:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHP 360</td>
<td>Introduction to Global Health</td>
<td>3</td>
</tr>
<tr>
<td>COMM 340</td>
<td>Media and Popular Culture</td>
<td>3</td>
</tr>
<tr>
<td>COMM 372T</td>
<td>Introduction to New Media Technologies</td>
<td>3</td>
</tr>
<tr>
<td>COMM 400W</td>
<td>Intercultural Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM 401</td>
<td>Communication Theory</td>
<td>3</td>
</tr>
<tr>
<td>COMM 448</td>
<td>Transnational Media Systems</td>
<td>3</td>
</tr>
<tr>
<td>CS 300T</td>
<td>Computers in Society</td>
<td>3</td>
</tr>
<tr>
<td>CS 312</td>
<td>Internet Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ECON 402</td>
<td>Transportation Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 454W</td>
<td>Economic Development</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 380</td>
<td>Reporting and News Writing I</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 382</td>
<td>Reporting News for Television and Digital Media</td>
<td>1</td>
</tr>
<tr>
<td>ENVH 301</td>
<td>Principles of Environmental Health Science</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 402W</td>
<td>Environmental and Occupational Health Administration and Law</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 305</td>
<td>World Resources</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 306T</td>
<td>Hazards: Natural and Technological</td>
<td>3</td>
</tr>
<tr>
<td>HIST 304T</td>
<td>History of Medicine, Disease, and Health Technology</td>
<td>3</td>
</tr>
<tr>
<td>HIST 389T</td>
<td>Technology and Civilization</td>
<td>3</td>
</tr>
</tbody>
</table>

Undergraduate Degree Requirements 10
Course requirements and options are as follows:

Course substitutions may be approved by the interdisciplinary minor coordinator.

Course requirements and options are as follows:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 386T/SCI 302T</td>
<td>The Evolution of Modern Science</td>
<td>3</td>
</tr>
<tr>
<td>IT 360T</td>
<td>Principles of Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 335T</td>
<td>Music Technology Survey</td>
<td>3</td>
</tr>
<tr>
<td>OPMT 303</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 355E</td>
<td>Cybersecurity Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 383T</td>
<td>Philosophy of Technology &amp; Innovation</td>
<td>3</td>
</tr>
<tr>
<td>POLS 350T</td>
<td>Technology and War</td>
<td>3</td>
</tr>
<tr>
<td>SOC 352</td>
<td>War and Peace</td>
<td>3</td>
</tr>
<tr>
<td>STEM 370T</td>
<td>Technology and Society</td>
<td>3</td>
</tr>
<tr>
<td>STEM 382</td>
<td>Industrial Design</td>
<td>3</td>
</tr>
<tr>
<td>WMST 390T</td>
<td>Women, Gender, and Technology Worldwide</td>
<td>3</td>
</tr>
</tbody>
</table>

Sustainability and Conservation Leadership Interdisciplinary Minor

Hans-Peter Plag, Department of Ocean and Earth Sciences, Coordinator (hplag@odu.edu)

The interdisciplinary minor in Sustainability and Conservation Leadership is offered in collaboration with the U.S. Fish and Wildlife Service (USFWS) as part of a long-term, sustainable program of conservation-related service-learning, internships and leadership programs. The minor will facilitate the development of the next generation of professionals who can address conservation issues and challenges posed by a changing climate and sea level rise. A unique aspect of this interdisciplinary minor is the requirement to take one course that is designated as a service-learning (SL) course in which the student will work at a USFWS (or related) facility.

Course substitutions may be approved by the interdisciplinary minor coordinator.

Course requirements and options are as follows:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDS/BIOL/OEAS 466W</td>
<td>Introduction to Mitigation and Adaptation Studies</td>
<td>3</td>
</tr>
<tr>
<td>IDS/BIOL/OEAS 467</td>
<td>Sustainability Leadership</td>
<td>3</td>
</tr>
<tr>
<td>IDS 368</td>
<td>Internship in Interdisciplinary Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two (6 credits of which 3 credits must be a Service-Learning (SL) course)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 311</td>
<td>Global Change Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 334</td>
<td>Field Ethnobotany</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 404</td>
<td>Conservation Biology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 339T</td>
<td>The Chemistry of the Environment</td>
<td>3</td>
</tr>
<tr>
<td>CHP 328</td>
<td>Public Health Science</td>
<td>3</td>
</tr>
<tr>
<td>COMM 400W</td>
<td>Intercultural Communication</td>
<td>3</td>
</tr>
<tr>
<td>ENVI 301</td>
<td>Principles of Environmental Health Science</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 305</td>
<td>World Resources</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 308T</td>
<td>Hazards: Natural and Technological</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 396</td>
<td>Topics in Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 400W</td>
<td>Seminar in Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 402</td>
<td>Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 419</td>
<td>Spatial Analysis of Coastal Environments</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 496</td>
<td>Topics in Geography</td>
<td>3</td>
</tr>
<tr>
<td>HLSC 405</td>
<td>Interprofessional Study Abroad on Global Health (SL)</td>
<td>3</td>
</tr>
<tr>
<td>OEAS 310</td>
<td>Global Earth Systems</td>
<td>3</td>
</tr>
<tr>
<td>OEAS 444</td>
<td>Communicating Ocean Science to Informal Audiences</td>
<td>3</td>
</tr>
<tr>
<td>PAS 300</td>
<td>Foundations of Public Service</td>
<td>3</td>
</tr>
<tr>
<td>PAS 301</td>
<td>Ethics, Governance and Accountability in Public Service (SL)</td>
<td>3</td>
</tr>
<tr>
<td>PAS 409</td>
<td>Leadership and Cultural Competence</td>
<td>3</td>
</tr>
<tr>
<td>PAS 411</td>
<td>Multi-Sector Partnerships for Public Service</td>
<td>3</td>
</tr>
<tr>
<td>POLS 335</td>
<td>Environmental Politics</td>
<td>3</td>
</tr>
<tr>
<td>POLS 401</td>
<td>Global Environmental Policy</td>
<td>3</td>
</tr>
<tr>
<td>POLS 455</td>
<td>The Politics of Climate Change</td>
<td>3</td>
</tr>
<tr>
<td>PRTS 405</td>
<td>Outdoor Recreation (SL)</td>
<td>3</td>
</tr>
<tr>
<td>PRTS 406</td>
<td>Outdoor Leadership and Environmental Education</td>
<td>3</td>
</tr>
<tr>
<td>PRTS 433</td>
<td>Camp Administration (SL)</td>
<td>3</td>
</tr>
<tr>
<td>PRTS 495</td>
<td>Topics (Natural Resource Management)</td>
<td>3</td>
</tr>
<tr>
<td>WMST 395</td>
<td>Topics in Women's, Gender, and Sexuality Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL 15

The Urban Community Interdisciplinary Minor

Christopher B. Colburn, Department of Economics, Coordinator

This interdisciplinary minor encourages an interdisciplinary approach to the problems and crucial issues that emerge from urban environments. Students gain an understanding of the issues associated with the convergence of diverse populations in urban locations and acquire an appreciation of the complexities of the interlocking and contingent nature of urban problems. This will be accomplished through an examination of the topical areas of common space, diversity, urban services, disorder, and work.

Course options are as follows:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 435W</td>
<td>Modern Architecture</td>
<td>3</td>
</tr>
<tr>
<td>CHP 415W</td>
<td>Critical Issues in Public/Community Health Administration</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 325</td>
<td>Women and Crime</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 355</td>
<td>Crime and the Community</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 441</td>
<td>Drugs and Society</td>
<td>3</td>
</tr>
<tr>
<td>ECON 402</td>
<td>Transportation Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 445W</td>
<td>Urban Economics</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 310</td>
<td>Geography of the City</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 411</td>
<td>Urban and Regional Planning</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 412</td>
<td>Cities of the World</td>
<td>3</td>
</tr>
<tr>
<td>PRTS 433</td>
<td>Camp Administration</td>
<td>3</td>
</tr>
<tr>
<td>SOC/CRJS 444</td>
<td>Community Justice</td>
<td>3</td>
</tr>
</tbody>
</table>

World Cultures: Values and Visions Interdisciplinary Minor

Lee Slater, Department of World Languages and Cultures, Coordinator

The World Cultures: Values and Vision interdisciplinary minor requires 12 credit hours of 300/400-level courses selected from at least two different disciplines with a maximum of six credits from any one discipline. For completion of the interdisciplinary minor, students must have a minimum overall cumulative grade point average of 2.00 in ALL courses required for the minor exclusive of lower-level courses and prerequisite courses. At least six hours of upper-level courses must be taken through courses offered by Old Dominion University. Three credit hours may be in the major, if a major course is listed as an option for the interdisciplinary minor. As such, it will be credited toward both the major and the interdisciplinary minor.

This interdisciplinary minor develops an understanding of human behavior in different cultures. In order to interpret information from other countries and ethnic groups, students need to learn that certain common notions such as perceptions of personhood, the organization of time and space, and the appropriate organization and behavior of social groups vary from country to country. This minor will explore different cultural perspectives and value systems. Students should emerge with a more sophisticated understanding of their own and others’ cultures.

Course options are as follows:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTR 304</td>
<td>Digging Up the Past</td>
<td>3</td>
</tr>
<tr>
<td>ANTR 305</td>
<td>North American Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>COMM 400W</td>
<td>Intercultural Communication</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 371W</td>
<td>Communication Across Cultures</td>
<td>3</td>
</tr>
</tbody>
</table>
Studies, Asian Studies, Anthropology, Communication, Criminal Justice, Philosophy, Theatre, and World Languages and Cultures. The Social
By definition the Arts and Humanities component will include: Art, Dance,
college.
(1) Arts & Humanities and (2) Social Sciences.
In the College of Arts & Letters, courses are divided into two components:
meet the requirement but they must be outside the college and not required
and Ethics and Impact of Technology Ways of Knowing areas may also
major and college. Upper-division courses elected to meet the Philosophy
leadership programs meet this option.
Teaching Licensure Requirements with the exception of the writing intensive (W) course in the
major. Second degree students must complete the writing intensive course
requirements for both majors must be completed prior to receiving the baccalaureate
degree. The student will receive one baccalaureate degree. Both majors
will appear on the transcript. The degree awarded will be determined by the
major to which University and college requirements are applied. Prior to
undertaking the second major, the student must have the program approved
by the appropriate chief departmental advisor or chair.
Completion of a second major will meet the upper-division General
Education Requirements.
Students wishing to earn a second degree rather than a second major should
see the “Second Baccalaureate Degree” section of the catalog.
Second Baccalaureate Degree
The University will permit a student to acquire a second baccalaureate
degree, provided that he or she:
1. Pursues a different course of study.
2. Meets all University, college, school, and departmental requirements
(credits earned for the first degree may be applied, if suitable, toward the
second degree).
3.Completes a minimum of 30 semester hours at Old Dominion University
that are beyond the requirements for the first degree.
A minimum of 150 credit hours is required for students earning two
baccalaureate degrees from Old Dominion University. If the degrees are
to be awarded simultaneously, an application for graduation and degree
certification must be submitted through the respective advisors for each
degree program.
Prior to undertaking the second degree, the Office of Admissions will
conduct an evaluation of all prior university-level coursework the student
has completed. Those who meet the admissions standards of the University
will be admitted; however, this does not guarantee admission into specific
degree programs where separate applications are required. The University,
as a general rule, will not permit a student to pursue more than two
baccalaureate degrees.
Second degree students are not required to take the Writing Success
Placement Tool (WSPT) and are considered to have fulfilled the
lower-division writing requirement and University General Education
Requirements with the exception of the writing intensive (W) course in the
major. Second degree students must complete the writing intensive course
in the major at Old Dominion University and must earn a grade of C (2.0) or
better. Students receiving two degrees from Old Dominion University must
complete the writing intensive course in both majors and earn a grade of C
or better in both courses.
All second degree students must meet the college/departmental requirements
for both degrees even if some of these requirements are also general
education courses.
Students who received their first degree from Old Dominion University
should be aware that grades in all undergraduate courses (for both the first
and the second degree) will be included in the cumulative grade point
average.
Undergraduate Degree Requirements 12
FR 320  Contemporary France through the Media  3
FR 438  Studies in Twentieth-Century French Literature  3
FR 469  A History of French Cinema  3
GEOG 451  Europe  3
GEOG 452  Africa  3
GEOG 453  Asia  3
GEOG 455  The Middle East  3
IT 425  Information Systems for International Business  3
MGMT 361  International Business Operations  3
MKTG 411  Multi-National Marketing  3
POLS 325W  World Politics  3
PSYC 420  Cross-Cultural Psychology  3
SPAN 322  Identities and Cultures of the Hispanic World  3
SPAN 471  Hispanic Women Authors  3
WCS 307  Understanding European Culture through Film  3
WCS/JAPN 310  Japan: A Cultural Odyssey  3
WCS/FR/GER 410  Berlin-Paris: Crucibles of European Ideas  3
WCS 445/ COMM 444/GER 445  German Cinema I  3
WCS/SPAN 471  Hispanic Women Authors  3
WCS/GER 476  German-Jewish Literature and Culture  3
Study Abroad: Any study abroad course at the 300-400 level that offers
three credits can fulfill one course requirement for this minor. In cases where
a study abroad course fits the themes of another interdisciplinary minor, students
may request approval from the minor coordinator to use that study
abroad course.
The coordinator for the minor can approve other courses not listed above to
fulfill the minor provided they substantively address some aspect of world
cultures.
Option C: Approved Certification Program such as Teaching Licensure
Option C can be met through an approved certification program such as
teaching licensure. The professional education requirements specified for
teaching licensure programs meet this option.
Option D: Upper-Division Course Work from Another College Outside of and not Required by the Major
Six hours of elective upper-division course work from outside of and not
required by the student’s major and college. Transfer courses may be used
to meet this requirement but must be from outside of and not required by
the student's major and college. Study abroad courses, Military Science and
Leadership courses (MSL) and Naval Science courses (NAVS) may be used
to meet the Option D requirement for all students, regardless of the student's
major and college. Upper-division courses elected to meet the Philosophy
and Ethics and Impact of Technology Ways of Knowing areas may also
meet the requirement but they must be outside the college and not required
by the major.
In the College of Arts & Letters, courses are divided into two components:
(1) Arts & Humanities and (2) Social Sciences.
Arts and Letters majors will be permitted to take upper-division courses in
their non-major component for this requirement or courses from another
college.
By definition the Arts and Humanities component will include: Art, Dance,
English, Graphic Design, History, Humanities, Music, Music Education,
Philosophy, Theatre, and World Languages and Cultures. The Social
Sciences component will include: African-American Studies, American
Studies, Asian Studies, Anthropology, Communication, Criminal Justice,
Filipino-American Studies, Gaming, Geography, International Studies,
Jewish Studies, Middle Eastern Studies, Political Science, Queer Studies,
Sociology, and Women’s Studies.
Students must satisfy all prerequisites before enrolling in any upper-division
course.
Second Major
The University permits an undergraduate student to pursue a second major.
A student pursuing two majors in different programs must meet all the
degree requirements of one major and at least the departmental requirements
of the other. (Most professional degree majors require completion of both
the departmental/school and the college requirements.) For two majors
within the same degree program, at least 60% of the credit hours must be
unique and not shared. This calculation is based on major requirements only
and does not include general education or elective credits. Requirements
for both majors must be completed prior to receiving the baccalaureate
degree. The student will receive one baccalaureate degree. Both majors
will appear on the transcript. The degree awarded will be determined by the
major to which University and college requirements are applied. Prior to
undertaking the second major, the student must have the program approved
by the appropriate chief departmental advisor or chair.
Completion of a second major will meet the upper-division General
Education Requirements.
Students wishing to earn a second degree rather than a second major should
see the “Second Baccalaureate Degree” section of the catalog.
Students wishing to earn a second major rather than a second degree should see the “Second Major” section of the catalog for information.

Minors

In addition to the completion of courses in the area of the major field, a candidate for a baccalaureate degree may complete a minor. The completion of a minor is optional. The minor may be chosen to support the major, to offer greater job opportunities to the student on graduation, or to provide recognition of study in a second academic area. Some minors may not be available for certain majors. Restrictions are determined by Academic Affairs. Completion of a University-approved minor will meet the upper-division General Education Requirements.

Students who complete the course requirements for the minor, but who do not attain a 2.00 grade point average in the minor, may request that the course work be approved to meet the upper-division general education requirement. The request may be initiated through the student’s advisor and the associate dean of their college and submitted to the assistant vice president for undergraduate studies in the Office of Academic Affairs. Students whose requests are approved will meet the upper-division requirement, but they will not receive credit for the minor.

For completion of a minor, an undergraduate student must have the following:

1. A minimum of 12 credit hours in a specified minor, normally at the 300 and 400 upper-level.
2. An overall grade point average of 2.0 or above in all courses specified as a requirement in the minor exclusive of prerequisite courses. All 300-, 400-, and approved 200-level courses designated for the minor and taken by the student will be calculated in the student's grade point average for the minor. For example, if the minor requires four courses at the 300- and 400-level and the student completes five courses, all five courses will be included in the calculation of the grade point average for the minor.
3. Six credit hours in the minor from Old Dominion University. No course that is introductory or foundational, or that meets a lower-level General Education requirement, may be included, although such courses may be prerequisites for courses in the minor.

Minors may be proposed by departments and programs and must be approved by the appropriate college committee and dean, by Faculty Senate Committee A and by the provost and vice president for academic affairs. Students may be able to count up to six credit hours toward fulfilling requirements for both a major and a minor, excluding prerequisites, with the approval of the department chair or designee of the major program.

Interdisciplinary minors must be reviewed by all colleges and departments involved prior to submission to Committee A of the Faculty Senate. Three credit hours in the interdisciplinary minor may be in the major, if a major course is listed as an option for the interdisciplinary minor. As such, it will be credited toward both the major and the interdisciplinary minor.

Interdisciplinary minors require 12 credit hours of 300/400-level courses selected from at least two different disciplines with a maximum of six credits from any one discipline.

A maximum of six credits for disciplinary minors (or three credits, for interdisciplinary minors) may share with other areas of the student’s program. Approval of the department chair, chief departmental advisor, or designee may be required. Special attention should be paid to major/minor combinations where multiple courses overlap to ensure that the student is taking enough unique hours for the minor.

Specific minor requirements may be found in the section on Colleges, Schools and Departments of Instruction in this catalog.

Procedures

Students who wish to pursue a minor must declare the minor with and be advised by the department offering the minor, their Student Success Director (for online students), or the distance learning representative.

Students completing a minor should present the minor for certification when submitting applications for graduation.

Following are approved academic minors:

**Arts and Letters**

- African-American Studies (http://catalog.odu.edu/undergraduate/collegeofartsletters/africanamericanstudies/minorinaficanamericanstudies)
- American Studies (http://catalog.odu.edu/undergraduate/collegeofartsletters/americanstudies/minorinamericanstudies)
- Arabic (http://catalog.odu.edu/undergraduate/collegeofartsletters/worldlanguagesandcultures/arabic/minorinarchic)
- Art History (http://catalog.odu.edu/undergraduate/collegeofartsletters/art/minorinarthistory)
- Asian Studies (http://catalog.odu.edu/undergraduate/collegeofartsletters/asiastudies/minorinasiastudies)
- Chinese Studies (http://catalog.odu.edu/undergraduate/collegeofartsletters/worldlanguagesandcultures/chinesestudies/minorinchinese)
- Communication (http://catalog.odu.edu/undergraduate/collegeofartsletters/communicationandtheatre/minorincommunication)
- Criminal Justice (http://catalog.odu.edu/undergraduate/collegeofartsletters/sociologyandcriminaljustice/minorsinsociologyandcriminaljustice)
- Dance (http://catalog.odu.edu/undergraduate/collegeofartsletters/communicationandtheatre/minorindance)
- English (http://catalog.odu.edu/undergraduate/collegeofartsletters/english/minorinenglish)
- European Studies (http://catalog.odu.edu/undergraduate/collegeofartsletters/worldlanguagesandcultures/europeanstudies/minorineuropeanstudies)
- Film Studies (http://catalog.odu.edu/undergraduate/collegeofartsletters/communicationandtheatre/minorinfilmstudies)
- Geography (http://catalog.odu.edu/undergraduate/collegeofartsletters/politicalscienceandgeography/minorsingeography)
- Geography—Environment and Resources Specialization (http://catalog.odu.edu/undergraduate/collegeofartsletters/politicalscienceandgeography/minorsingeography)
- History (http://catalog.odu.edu/undergraduate/collegeofartsletters/history/minorinhistory)
- Holocaust and Genocide Studies (http://catalog.odu.edu/undergraduate/collegeofartsletters/holocaustandgenocidestudies/minorinholocaustandgenocidestudies)
- International Studies (http://catalog.odu.edu/undergraduate/collegeofartsletters/internationalstudies/minorininternationalstudies)
- Japanese (http://catalog.odu.edu/undergraduate/collegeofartsletters/worldlanguagesandcultures/japanese/minorinjapan)
- Jewish Studies (http://catalog.odu.edu/undergraduate/collegeofartsletters/jewishstudies/minorinjewishstudies)
- Latin American Studies (http://catalog.odu.edu/undergraduate/collegeofartsletters/worldlanguagesandcultures/latinamericanstudies/minorinlatinamericans)
- Media Studies (http://catalog.odu.edu/undergraduate/collegeofartsletters/communicationandtheatre/minorinmediastudies)
- Middle Eastern Studies (http://catalog.odu.edu/undergraduate/collegeofartsletters/middleeasternstudies/minorinmiddleeasternstudies)
- Music Composition (http://catalog.odu.edu/undergraduate/collegeofartsletters/music/minorinmusic)
- Music History (http://catalog.odu.edu/undergraduate/collegeofartsletters/music/minorinmusic)
- Music Performance (http://catalog.odu.edu/undergraduate/collegeofartsletters/music/minorinmusic)
- Philosophy (http://catalog.odu.edu/undergraduate/collegeofartsletters/philosophy/minorinphilosophy)
• Philosophy—Applied Ethics Specialization (http://catalog.odu.edu/undergraduate/collegeofartsletters/philosophyandreligion/philosophyandreligion/minorinappliedethics)
• Philosophy—Religious Studies Specialization (http://catalog.odu.edu/undergraduate/collegeofartsletters/philosophyandreligion/philosophyandreligion/minorinreligiousstudies)
• Philosophy—Political and Legal Studies Specialization (http://catalog.odu.edu/undergraduate/collegeofartsletters/philosophyandreligion/philosophyandreligion/minorinpoliticalandlegalstudies)
• Political Geography (http://catalog.odu.edu/undergraduate/collegeofartsletters/politicalscienceandgeography/minorinpoliticalscience)
• Political Science (http://catalog.odu.edu/undergraduate/collegeofartsletters/politicalscienceandgeography/minorinpoliticalscience)
• Political Science—Public Law Specialization (http://catalog.odu.edu/undergraduate/collegeofartsletters/politicalscienceandgeography/minorinpoliticalscience)
• Queer Studies (http://catalog.odu.edu/undergraduate/collegeofartsletters/womensstudies/minorinqueerstudies)
• Sociology (http://catalog.odu.edu/undergraduate/collegeofartsletters/sociologyandcriminaljustice/minorsinsociologyandcriminaljustice)
• Sociology—Social Welfare Specialization (http://catalog.odu.edu/undergraduate/collegeofartsletters/sociologyandcriminaljustice/minorsinsociologyandcriminaljustice)
• Studio Arts (http://catalog.odu.edu/undergraduate/collegeofartsletters/art/minorinstudioarts)
• Studio Art Photography (http://catalog.odu.edu/undergraduate/collegeofartsletters/art/minorinstudioartphotography)
• Theatre (http://catalog.odu.edu/undergraduate/collegeofartsletters/communicationandtheatrearts/minorintheatre)
• Women’s Studies (http://catalog.odu.edu/undergraduate/collegeofartsletters/womensstudies/minorinwomensstudies)
• World Languages and Cultures (http://catalog.odu.edu/undergraduate/collegeofartsletters/worldlanguagesandcultures/)
  • French (http://catalog.odu.edu/undergraduate/collegeofartsletters/worldlanguagesandcultures/french/minorinfrance)
  • German (http://catalog.odu.edu/undergraduate/collegeofartsletters/worldlanguagesandcultures/german/minoringeurope)
  • Spanish (http://catalog.odu.edu/undergraduate/collegeofartsletters/worldlanguagesandcultures/spanish/minorinspanish)

Business
• Accounting (http://catalog.odu.edu/undergraduate/strmecollegeofbusiness/bsbaccounting/minorinaccounting)
• Business Administration (http://catalog.odu.edu/undergraduate/strmecollegeofbusiness/bsbusadmin/minorinbusinessadministration)
• Business Analytics (http://catalog.odu.edu/undergraduate/strmecollegeofbusiness/bsbudata/minorinbusinessanalytics)
• Economics (http://catalog.odu.edu/undergraduate/strmecollegeofbusiness/bsbeconomics/minorineconomics)
• Financial Management (http://catalog.odu.edu/undergraduate/strmecollegeofbusiness/bsbfinancialmanagement/minorinfinancialmanagement)
• Financial Management - Real Estate (http://catalog.odu.edu/undergraduate/strmecollegeofbusiness/bsbfinancialmanagement/minorirealestate)
• Financial Management - Risk Management and Insurance (http://catalog.odu.edu/undergraduate/strmecollegeofbusiness/bsbfinancialmanagement/minoririskmanagement)
• Information Systems and Technology (http://catalog.odu.edu/undergraduate/strmecollegeofbusiness/bsbinformation/minorininformationtechnology)
• International Business (http://catalog.odu.edu/undergraduate/strmecollegeofbusiness/bsbinternational/minorinternationalbusiness)
• Management (http://catalog.odu.edu/undergraduate/strmecollegeofbusiness/bsbmanagement/minorinmanagement)
• Marketing (http://catalog.odu.edu/undergraduate/strmecollegeofbusiness/bsbmarketing/minorinmarketing)
• Marketing - Digital Marketing (http://catalog.odu.edu/undergraduate/strmecollegeofbusiness/bsbmarketing/minorinmarketing)
• Marketing - Marketing Analytics (http://catalog.odu.edu/undergraduate/strmecollegeofbusiness/bsbmarketing/minorinmarketing)
• Marketing - Professional Sales (http://catalog.odu.edu/undergraduate/strmecollegeofbusiness/bsbmarketing/minorinmarketing)
• Maritime and Supply Chain Management (http://catalog.odu.edu/undergraduate/strmecollegeofbusiness/bsbmaritimeandsupplychain/minorinmaritimeandsupplychain)
• Military Leadership (http://catalog.odu.edu/undergraduate/strmecollegeofbusiness/militaryscience/minorinnationalsecurity)
• Public Service (http://catalog.odu.edu/undergraduate/strmecollegeofbusiness/bsbpublicservice/minorinpublicservice)

Education and Professional Studies
• Addiction Prevention and Treatment (http://catalog.odu.edu/undergraduate/dardencollegeofeducation/counseling/minorinaddictionprevention)
• Coaching Education (http://catalog.odu.edu/undergraduate/dardencollegeofeducation/minorineducation)
• Exercise Science (http://catalog.odu.edu/undergraduate/dardencollegeofeducation/minorineducation)
• Fashion Merchandising (http://catalog.odu.edu/undergraduate/dardencollegeofeducation/minorineducation)
• Health Education (http://catalog.odu.edu/undergraduate/dardencollegeofeducation/minorineducation)
• Human Services (http://catalog.odu.edu/undergraduate/dardencollegeofeducation/minorineducation)
• Special Education (http://catalog.odu.edu/undergraduate/dardencollegeofeducation/minorineducation)
• Speech-Language Pathology and Audiology (http://catalog.odu.edu/undergraduate/dardencollegeofeducation/minorineducation)
• Sport Management (http://catalog.odu.edu/undergraduate/dardencollegeofeducation/minorineducation)
• Training and Development (http://catalog.odu.edu/undergraduate/dardencollegeofeducation/minorineeducation)

Engineering and Technology
• Aerospace Engineering (http://catalog.odu.edu/undergraduate/frankbattencollegeofengineeringandtechnology/minorine aerospaceengineering)
• Mechanical Aerospace Engineering (http://catalog.odu.edu/undergraduate/frankbattencollegeofengineeringandtechnology/minormechanica aerospaceengineering)
• Civil Engineering (http://catalog.odu.edu/undergraduate/civilengineering/technology/minorcivilengineeringtext)
• Civil Engineering Technology—Construction (http://catalog.odu.edu/undergraduate/civilengineering/technology/minorcivilengineeringtechnologyconstructiontext)
• Computer Engineering (http://catalog.odu.edu/undergraduate/civilengineering/technology/electricalcomputerengineering/minorcivilengineeringtext)
• Electrical Engineering (http://catalog.odu.edu/undergraduate/civilengineering/technology/electricalcomputerengineering/minorinelectricalengineeringtext)
• Electrical Engineering Technology (http://catalog.odu.edu/undergraduate/civilengineering/technology/electricalcomputerengineering/minorinelectricalengineeringtechnologytext)
• Engineering Management (http://catalog.odu.edu/undergraduate/civilenvironmentalengineering/managementengineeringtext)
• Environmental Engineering (http://catalog.odu.edu/undergraduate/civilenvironmentalengineering/technology/minorenvironmentalengineeringtext)
• Global Engineering (http://catalog.odu.edu/undergraduate/civilenvironmentalengineering/technology/minorglobalengineeringtext)
• Marine Engineering (http://catalog.odu.edu/undergraduate/civilenvironmentalengineering/technology/minormarineengineeringtext)
• Mechanical Engineering—Mechanics (http://catalog.odu.edu/undergraduate/civilenvironmentalengineering/technology/mechanicalengineering/minormechanicalengineeringtext)
• Mechanical Engineering—Thermal Sciences (http://catalog.odu.edu/undergraduate/civilenvironmentalengineering/technology/mechanicalengineering/minormechanicalengineeringtext)
• Mechanical Engineering Technology (http://catalog.odu.edu/undergraduate/civilenvironmentalengineering/technology/minormechanicalengineeringtechnologytext)
• Military Leadership (http://catalog.odu.edu/undergraduate/civilenvironmentalengineering/technology/navalreservemilitary/reserveofficertrainingcorps/minormilitaryleadershiptext)
• Modeling and Simulation (http://catalog.odu.edu/undergraduate/civilenvironmentalengineering/technology/electricalcomputerengineering/minorsimulationtechnologytext)

Health Sciences
• Community Health (http://catalog.odu.edu/undergraduate/collegeofhealthsciences/communityenvironmentalhealth/minorincommunityhealth)
• Environmental Health (http://catalog.odu.edu/undergraduate/collegeofhealthsciences/communityenvironmentalhealth/minorinenvironmentalhealth)
• Medical Laboratory Science (http://catalog.odu.edu/undergraduate/collegeofhealthsciences/medicaltechnology/minormedicaltechnology)
• Occupational Safety (http://catalog.odu.edu/undergraduate/collegeofhealthsciences/communityenvironmentalhealth/minoroccupationalhealth)

Sciences
• Biology (http://catalog.odu.edu/undergraduate/collegeofsciences/biologicalsciences/minorbioscience)
• Chemistry (http://catalog.odu.edu/undergraduate/collegeofsciences/chemistry/minorchemistry)
• Computer Science (http://catalog.odu.edu/undergraduate/collegeofsciences/computer/minorcomputerinformationscience)
• Mathematics (http://catalog.odu.edu/undergraduate/collegeofmathematics/minormathematics)
• Mathematics—Actuarial Mathematics (http://catalog.odu.edu/undergraduate/collegeofmathematics/minormathematics)
• Mathematics—Applied Mathematics (http://catalog.odu.edu/undergraduate/collegeofmathematics/minormathematics)
• Mathematics—Statistics (http://catalog.odu.edu/undergraduate/collegeofmathematics/minormathematics)

Interdisciplinary Minors
• Administrative Leadership and Ethics for Professional Roles (p. 7)
• Biomedical Engineering (p. 7)
• Children’s Rights (p. 8)
• Cybercrime (p. 8)
• Cybersecurity (http://catalog.odu.edu/undergraduate/schoolofcybersecurity/minorincomputerinformationsecurity)
• The Designed World (p. 9)
• Energy Engineering (p. 9)
• Entrepreneurship (p. 9)
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• World Cultures: Values and Visions (p. 11)