Interdisciplinary Studies

Elizabeth Esinhart, Director of Interdisciplinary Studies Teacher Preparation
Virginia Tucker, Director of Interdisciplinary Programs and Program
Coordinator and Advisor for Professional Writing
Kathleen Fowler, Program Coordinator and Advisor, Individualized
Interdisciplinary Studies
Daniel O’Leary, Program Coordinator and Advisor, Work and Professional
Studies
Tamer Nadeem, Program Coordinator and Advisor, Cybersecurity
Jeanie P. Kline, Program Coordinator and Advisor, Leadership

Interdisciplinary Studies coordinates the administration and delivery of four
degree programs: the Bachelor of Science in interdisciplinary studies-teacher
preparation program; the Bachelor of Arts and Bachelor of Science degrees
in interdisciplinary studies-individualized programs; and the Bachelor
of Science in interdisciplinary studies-professional writing, work and
professional studies, cybersecurity, and leadership programs.

Bachelor of Science Degree —
Interdisciplinary Studies Major — Teacher
Preparation Concentration

Elizabeth Esinhart, Director
Michele Mitchell, Assistant Director and Chief Departmental Advisor

This interdisciplinary studies, teacher preparation degree program (IDS-
TP) in the College of Arts and Letters draws courses from four colleges
within the University to prepare teacher candidates interested in teaching
eyear childhood, primary/elementary or special education to complete
content and pedagogical competency requirements for teacher licensure in
the Commonwealth of Virginia. In cooperation with the Darden College
of Education, early childhood and primary/elementary education teacher
candidates earn full licensure to teach early childhood or elementary
education with the completion of both the B.S. degree in Interdisciplinary
Studies, early childhood concentration or primary/elementary concentration
and the Master of Science in Education in the respective field. Special
education teacher candidates earn full licensure to teach special education,
general curriculum (K-12) or early childhood special education (birth -
5) and adapted curriculum (K-12) with the completion of the B.S. degree
in Interdisciplinary Studies. Students licensed to teach special education
general curriculum will be highly qualified to teach elementary content or
secondary English content.

Course work in the baccalaureate degree spans the disciplines of English
literature, composition, and linguistics; history; fine and performing arts;
mathematics and statistics; natural sciences including biology, chemistry,
physics, and ocean or earth science; social sciences including economics,
geography, and political science; human growth and development; and
educational foundations, technology, assessment, theory, and methods.
The broad curriculum, along with the admittance, continuance, and
graduation requirements described below, prepares teacher candidates
to meet state licensure standards for the Commonwealth of Virginia,
including passing scores on the PRAXIS II specialty area exams, Reading
for Virginia Educators Assessment, and Virginia Communication and
Literacy Assessment, and to meet graduate admission requirements to the
Darden College of Education.

Teacher candidates can choose from the following undergraduate
concentrations:

- Primary/Elementary Education (no licensure with B.S. degree, licensure
  at graduate level through Darden College of Education)
- Early Childhood Education (no licensure with B.S. degree, licensure at
  graduate level through the Darden College of Education)
- Special Education, General Curriculum, K-12, Highly Qualified to
  Teach Elementary Education (licensure with B.S. degree)
- Special Education, General Curriculum, K-12, Highly Qualified to
  Teach Secondary English and Elementary Education (licensure with
  B.S. degree)
- Special Education Early Childhood, birth to 5, and Adapted Curriculum,
  K-12 (licensure with B.S. degree)

Each concentration is described below, and additional information is posted
on the departmental website or available in hard copy from the department.

Admission

To be admitted to and advised in the IDS-TP program, teacher candidates
must have a grade of C or above in ENGL 110C and 26 completed credit
hours.

Declaration of Major

To declare the major, teacher candidates must have a 2.80 cumulative
grade point average and grades of C or above in any course required in the
program, and pass the prescribed Virginia Board of Education assessment
for admission to an approved teacher education program as described herein.
Teacher candidates who have been admitted to the IDS-TP program but
who are ineligible to declare the major will be advised as prospective majors
within the program.

Prescribed Virginia Board of Education Assessment
for Admission to an Approved Teacher Education
Program

Old Dominion University students seeking admission to an approved teacher
education program must satisfy the Virginia Board of Education Required
Assessment for Admission to an Approved Teacher Education Program.
This requirement can be satisfied by meeting a passing score in one of the
selected criteria below:

1. Passing PRAXIS I composite score of 532 by December 31, 2013; or
2. Passing PRAXIS Core Academic Skills Test beginning January 1, 2014;
   Reading Score of 156, Writing Score of 162, and Mathematics Score of
   150; or
3. Approved substitute test score for PRAXIS I or PRAXIS Core:
   a. SAT score of 1000 with at least 450 verbal and 510 mathematics
      taken prior to April 1, 1995; or
   b. SAT score of 1100 with at least 530 verbal and 530 mathematics
      taken after April 1, 1995; or
   c. ACT composite score of 21 with ACT mathematics score of at least
      21, and ACT English plus Reading score of at least 37, taken prior
      to April 1, 1995. ACT scores taken prior to 1989 are not valid; or
   d. ACT composite score of 24 with ACT mathematics score of at least
      22, and ACT English plus Reading score of at least 46, taken after
      April 1, 1995; or
   e. PRAXIS I Math test score of 178 by December 31, 2013 and a
      composite Virginia Communication and Literacy Assessment
      (hereafter referred to as the VCLA) score of 470; or
   f. PRAXIS Core Academic Skills Mathematics test score of 150
      beginning January 1, 2014 and a VCLA score of 470; or
   g. SAT Mathematics test score of at least 510 taken prior to April 1, 1995
      and a VCLA score of 470; or
   h. SAT Mathematics test score of at least 530 taken after April 1, 1995
      and a composite VCLA score of 470; or
   i. ACT Mathematics test score of at least 21 taken prior to April 1, 1995
      and a composite VCLA score of 470; or
   j. ACT Mathematics test score of at least 22 taken after April 1, 1995
      and a composite VCLA score of 470.

For the most current information on the prescribed Virginia Board of
Education admission assessment, visit the Teacher Education Services
website, http://www.odu.edu/tes and review the Teacher Education
Handbook.

Admission to Undergraduate Teacher Education
Program

All teacher candidates must be admitted to the undergraduate teacher
education program as a requirement of continuance and graduation.
Admittance to the undergraduate teacher education program requires that the teacher candidate:

1. Be a declared IDS-TP major
2. Have a cumulative GPA of 2.80
3. Have a major GPA of 2.80 (major content plus professional education courses)
4. Have a 2.80 GPA in major content courses
5. Have a 2.80 GPA in professional education courses
6. Have no grade below a C in any course required in the program
7. Pass the prescribed Virginia Board of Education admission assessment described above
8. Submit an application for admittance that is approved by the program and by the Office of Teacher Education Services in the Darden College of Education

Additionally, teacher candidates must be admitted to the undergraduate teacher education program by the end of their 60th credit hour. Transfer students with 60 or more credits must be admitted to the undergraduate teacher education program by the end of their second semester enrolled at the University.

**Continuance**

Teacher candidates must:

1. Maintain a cumulative grade point average of 2.80, 2.80 major GPA, 2.80 major content GPA and 2.80 professional education GPA
2. Earn a grade no less than C in all general education courses required in the program, major content courses, and professional education courses
3. Pass the prescribed Virginia Board of Education admission assessment described above
4. Be admitted to the undergraduate teacher education program.
5. Successfully complete a background clearance check.

**Background Clearance Requirement:** Old Dominion University requires a background clearance check of candidates interested in professional education programs. Professional education programs have several field experiences which are required for continuance and graduation from the program. The background clearance must be successfully completed prior to a field experience placement. The process to complete the ODU clearance background check is located at: [http://www.odu.edu/success/academic/teacher-education/placement/background-checks](http://www.odu.edu/success/academic/teacher-education/placement/background-checks). The ODU clearance process includes the FBI fingerprint SP-24 form, the child protective service/social service check, and the sexual offender registry check. Candidates interested in professional education programs are advised to complete this clearance process immediately upon entry since the clearance process takes a minimum of eight weeks to complete. Please contact Teacher Education Services at 757-683-3348 with any questions.

All teacher candidates who fail to meet program requirements must meet with an advisor and complete a Continuance Notice. Teacher candidates who fail to meet program requirements for two consecutive semesters will be encouraged to consider other academic and professional goals. In addition, teacher candidates must pass the prescribed Virginia Board of Education admission assessment described above, be admitted to the undergraduate teacher education program, and meet all other prerequisites listed in the Catalog course description to be eligible to take the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TLED 478</td>
<td>Integrating Instruction Across the Curriculum PreK-6</td>
<td>3</td>
</tr>
<tr>
<td>TLED 479</td>
<td>Classroom Management and Practice PreK-3; PreK-6</td>
<td>3</td>
</tr>
<tr>
<td>TLED 483</td>
<td>Seminar in Teacher Education</td>
<td>1</td>
</tr>
<tr>
<td>TLED 492</td>
<td>Integrating Instruction: Mathematics and Science Across the Early Childhood Curriculum</td>
<td>3</td>
</tr>
</tbody>
</table>

To graduate, teacher candidates must:

1. Complete all program requirements
2. Earn a grade of no less than C in every general education course required in the program, major content course, and professional education course
3. Have a cumulative grade point average of 2.80 and 2.80 major GPA.

In addition, teacher candidates must have the prescribed Virginia Board of Education admission assessment described above and passing scores on any other Assessment test required by their concentration area as provided above, be admitted to the approved undergraduate teacher education program, complete ENGL 110C, ENGL 211C or 221C or 231C, and the writing intensive (W) course in the major with a grade of C or better, and complete the Senior Assessment Survey. Teacher candidates will also be requested to complete the Departmental Senior Exit Survey.

The following requirements also apply:

**Special Education**

Special Education teacher candidates earn licensure with the B.S. degree and must obtain passing scores on the Special Education departmental exam, the appropriate PRAXIS II specialty area exam(s), Reading for Virginia Educators Assessment, Virginia Communication and Literacy Assessment, and Praxis II specialty area exam(s) are required in SPED 483 and are a prerequisite to enrollment in SPED 486. Passing scores on the PRAXIS II specialty area exam(s), Reading for Virginia Educators Assessment, and Virginia Communication and Literacy Assessment are required in TLED 483. All teacher candidates must consult with an academic advisor every semester to review their academic progress.

Additionally, passing scores on the Special Education exit exam, the Reading for Virginia Educators Assessment, Virginia Communication and Literacy Assessment, and Praxis II specialty area exam(s) are required in SPED 483 and are a prerequisite to enrollment in SPED 486. Passing scores on the PRAXIS II specialty area exam(s), Reading for Virginia Educators Assessment, and Virginia Communication and Literacy Assessment are required in TLED 483. All teacher candidates must consult with an academic advisor every semester to review their academic progress.

**Special Education**

Special Education teacher candidates earn licensure with the B.S. degree and must obtain passing scores on the Special Education departmental exam, the appropriate PRAXIS II specialty area exam(s), Reading for Virginia Educators Assessment, Virginia Communication and Literacy Assessment, and Praxis II specialty area exam(s) are required in SPED 483 and are a prerequisite to enrollment in SPED 486. Passing scores on the PRAXIS II specialty area exam(s), Reading for Virginia Educators Assessment, and Virginia Communication and Literacy Assessment are required in TLED 483. All teacher candidates must consult with an academic advisor every semester to review their academic progress.

Note for students in Washington State from the Student Achievement Council (SAC) concerning the teacher preparation with licensure in special education, general curriculum K-12, and highly qualified designation in elementary education: Eligibility for initial educator certification in Washington is based on completion of a state approved educator preparation program. This program is approved in Virginia and is authorized for field placements in Washington by the Professional Educators Standards Board. Even though students may be residing in Washington while in this program,
the application for educator certification in Washington will be processed as an out-of-state application. Go to http://www.pesb.wa.gov/ for more information. Teachers are advised to contact their individual school districts as to whether this program may qualify for teacher advancement.

**Primary/Elementary Education and Early Childhood Education**

For Primary/Elementary Education and Early Childhood Education teacher candidates, admission to the graduate programs in elementary education and early childhood education requires a cumulative grade point average of 2.80 and completion of the graduate application, which includes the GRE or MAT. Teacher candidates with a cumulative GPA of 3.30 and passing scores on all three sections of Praxis I (178 math, 178 reading, and 176 writing) prior to December 31, 2013 or passing scores on PRAXIS Core Academic Skills Tests (150 Math, 156 Reading, 162 Writing) beginning January 1, 2014 or a combination of passed PRAXIS I scores (Math 178, Reading 178, Writing 176) by December 31, 2013 and passed PRAXIS Core scores (Math 150, Reading 156, Writing 162) beginning January 1, 2014 or Virginia Board of Education qualifying SAT or ACT scores only will be eligible for Fast-Track admission to the graduate programs in teacher education. Fast-track admission requires a student to comply with all graduate admission criteria except the submission of GRE or MAT scores. Teacher candidates earn licensure to teach in elementary education or early childhood education upon completion of the master's degree in the Darden College of Education. Prior to starting the teacher candidate internship (student teaching), all teacher candidates must obtain passing scores on the appropriate PRAXIS II specialty area exam, Reading for Virginia Educators Assessment, and Virginia Communication and Literacy Assessment. Test results will be submitted to the director of the Office of Teacher Education Services. Prior to the start of the teacher candidate internship, all teacher candidates should review their Leo Online student test score page to ensure that passing scores are posted for the appropriate PRAXIS I, PRAXIS Core, or approved substitute assessment, PRAXIS II specialty area exam, Reading for Virginia Educators Assessment, and the Virginia Communication and Literacy Assessment.

Note for students in Washington State from the Student Achievement Council (SAC) concerning the primary/elementary education emphasis: This program is not intended to lead to teacher certification. Teachers are advised to contact their individual school districts as to whether this program may qualify for teacher advancement.

Please see the College of Education sections of the Undergraduate and Graduate Catalogs or the Darden College of Education website for more information.

Due to changing University requirements, national accreditation standards, and Commonwealth licensure regulations, the teacher preparation programs in the College of Arts and Letters are under constant revision. Any changes resulting from these factors supersede the program requirements described in this Catalog. Students are encouraged to obtain current program information from their academic advisors and from the Darden College of Education website at www.education.odu.edu.

Program curriculum requirements are listed below.

**Primary/Elementary Education* (also offered through Distance Learning)**

**General Education Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 10C</td>
<td>English Composition **</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 21C</td>
<td>English Composition **</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 112L</td>
<td>Introduction to Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 114L</td>
<td>American Writers, American Experiences</td>
<td></td>
</tr>
<tr>
<td>FLET 100L</td>
<td>Understanding World Literature</td>
<td></td>
</tr>
<tr>
<td>Language and Culture (See Requirements for Undergraduate Degrees section of this Catalog for requirement)</td>
<td>0-6</td>
<td></td>
</tr>
<tr>
<td>COMM 101R</td>
<td>Public Speaking **</td>
<td>3</td>
</tr>
</tbody>
</table>

**Major Content Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 327W</td>
<td>Advanced Composition</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 350</td>
<td>Aspects of the English Language</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 370</td>
<td>English Linguistics</td>
<td></td>
</tr>
<tr>
<td>ENGL 336</td>
<td>The Short Story (or approved upper-level literature course)</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 100H</td>
<td>Interpreting the World Past Since 1500</td>
<td>3</td>
</tr>
<tr>
<td>HIST 101H</td>
<td>Interpreting the Asian Past</td>
<td></td>
</tr>
<tr>
<td>HIST 102H</td>
<td>Interpreting the European Past</td>
<td></td>
</tr>
<tr>
<td>HIST 103H</td>
<td>Interpreting the Latin America Past</td>
<td></td>
</tr>
</tbody>
</table>

Old Dominion University 3
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 105H</td>
<td>Interpreting the African Past</td>
<td>3</td>
</tr>
<tr>
<td>HIST 356</td>
<td>Virginia History</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
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<td>3</td>
</tr>
<tr>
<td>HIST 345</td>
<td>Native American History</td>
<td></td>
</tr>
<tr>
<td>HIST 346</td>
<td>Colonial and Revolutionary America</td>
<td></td>
</tr>
<tr>
<td>HIST 348</td>
<td>The Early Republic, 1787-1850</td>
<td></td>
</tr>
<tr>
<td>HIST 350</td>
<td>History of the Old South</td>
<td></td>
</tr>
<tr>
<td>HIST 351</td>
<td>The Civil War and Reconstruction</td>
<td></td>
</tr>
<tr>
<td>HIST 355</td>
<td>The United States, 1945-1991</td>
<td></td>
</tr>
<tr>
<td>HIST 361</td>
<td>African-American History to 1865</td>
<td></td>
</tr>
<tr>
<td>HIST 362</td>
<td>African-American History Since 1865</td>
<td></td>
</tr>
<tr>
<td>HIST 363</td>
<td>Women in U.S. History</td>
<td></td>
</tr>
<tr>
<td>(Or approved upper-level U.S. history topics course)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ECON 200S</td>
<td>Basic Economics</td>
<td></td>
</tr>
<tr>
<td>ECON 201S</td>
<td>Principles of Macroeconomics</td>
<td></td>
</tr>
<tr>
<td>ECON 202S</td>
<td>Principles of Microeconomics</td>
<td></td>
</tr>
<tr>
<td>POLS 101S</td>
<td>Introduction to American Politics</td>
<td>3</td>
</tr>
<tr>
<td>POLS 331</td>
<td>State and Local Government</td>
<td>3</td>
</tr>
<tr>
<td>or POLS 311</td>
<td>Virginia Politics and Government</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
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<td>3</td>
</tr>
<tr>
<td>GEOG 250</td>
<td>World Regional Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 300</td>
<td>Maps and Geographic Information</td>
<td></td>
</tr>
<tr>
<td>GEOG 350</td>
<td>Geography of the United States and Canada</td>
<td></td>
</tr>
<tr>
<td>GEOG 412</td>
<td>Cities of the World</td>
<td></td>
</tr>
<tr>
<td>GEOG 451</td>
<td>Europe</td>
<td></td>
</tr>
<tr>
<td>GEOG 454W</td>
<td>Latin America</td>
<td></td>
</tr>
<tr>
<td>GEOG 455</td>
<td>The Middle East</td>
<td></td>
</tr>
<tr>
<td>MATH 335</td>
<td>Number Systems and Discrete Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 302</td>
<td>Geometry</td>
<td>3</td>
</tr>
<tr>
<td>STAT 130M</td>
<td>Elementary Statistics</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>OOEAS 110N</td>
<td>Earth Science</td>
<td></td>
</tr>
<tr>
<td>OOEAS 210</td>
<td>Environmental Earth Science</td>
<td></td>
</tr>
<tr>
<td>OOEAS 302</td>
<td>Environmental Geology</td>
<td></td>
</tr>
<tr>
<td>OOEAS 402</td>
<td>Field Experiences in Oceanography for Teachers</td>
<td></td>
</tr>
<tr>
<td>HPE 327</td>
<td>Teaching of Health and Physical Education, Pre-K-8</td>
<td>3</td>
</tr>
<tr>
<td>One Physical Education activity credit</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>MUSC 308</td>
<td>Music Education: Music for the Elementary Classroom Teacher</td>
<td></td>
</tr>
<tr>
<td>MUSC 460</td>
<td>History of Jazz</td>
<td></td>
</tr>
<tr>
<td>ARTS 305</td>
<td>Elementary Art Education Methods and Classroom Management</td>
<td></td>
</tr>
<tr>
<td>Approved upper level Human Creativity course</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Hours**: 69-70

**Professional Education (meets upper-division general education requirements)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TLED 301</td>
<td>Foundations and Introduction to Assessment of Education (PRAXIS Core, 30 hour observation, and background clearance required)</td>
<td>3</td>
</tr>
<tr>
<td>TLED 430</td>
<td>PK-12 Instructional Technology ***</td>
<td>3</td>
</tr>
<tr>
<td>TLED 468</td>
<td>Language Acquisition and Reading for Students with Diverse Learning Needs</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>
<tr>
<td>SPED 406</td>
<td>Students with Diverse Learning Needs in the General Education Classroom</td>
<td>3</td>
</tr>
<tr>
<td>TLED 432</td>
<td>Developing Instructional Strategies PreK-6: Language Arts</td>
<td>3</td>
</tr>
<tr>
<td>STEM 433</td>
<td>Developing Instructional Strategies PreK-6: Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>STEM 434</td>
<td>Developing Instructional Strategies PreK-6: Science</td>
<td>3</td>
</tr>
<tr>
<td>TLED 435</td>
<td>Developing Instructional Strategies PreK-6: Social Studies</td>
<td>3</td>
</tr>
<tr>
<td>TLED 478</td>
<td>Integrating Instruction Across the Curriculum PreK-6 ***</td>
<td>3</td>
</tr>
<tr>
<td>TLED 479</td>
<td>Classroom Management and Practice PreK-3; PreK-6 ***</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours**: 33

**Total Degree Credits******: 120-127

* This undergraduate emphasis track prepares students to matriculate into the graduate program in early childhood education (not offered through Distance Learning) or the graduate program in elementary education (offered through Distance Learning in the Darden College of Education); teacher candidates should consult the directors of these graduate programs for additional information.

** Departmental requirements for all teacher candidates, not met by the associate degree.

*** Admission to the undergraduate teacher education program is required prior to registration for TLED 478 and TLED 479; TLED 478 will require 40 practicum hours in grades 4-6 and TLED 479 will require 70 practicum hours in K-6. An approved background clearance check is required prior to practicum placement.

**** NOTE: ALL STUDENTS MUST EARN A MINIMUM OF 120 CREDIT HOURS FOR THE BACCALAUREATE DEGREE, WHICH MUST INCLUDE BOTH A MINIMUM OF 30 CREDIT HOURS OVERALL AND 12 CREDIT HOURS OF UPPER-LEVEL COURSES IN THE MAJOR PROGRAM FROM OLD DOMINION UNIVERSITY.

+ If credit is received for ARTH 121A, teacher candidates must take MUSC 308 or MUSC 460 or an approved upper-level Music fine and performing arts course; if credit is received for MUSC 264A, teacher candidates must take ARTS 305 or an approved upper-level Art fine and performing arts course.

++ Grade of C or better is required in MATH 102M or MATH 103M or MATH 162M to enroll in MATH 302 and MATH 335

+++ LiveText is required for all Teacher Candidates in TLED 430.

**Licensure in Special Education, General Curriculum, K-12, Highly Qualified in Elementary Education Concentration* (also offered through Distance Learning)**

**General Education Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 110C</td>
<td>English Composition **</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 211C</td>
<td>English Composition **</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following: 3
Major Content Requirements

ENGL 112L Introduction to Literature
ENGL 114L American Writers, American Experiences
FLET 100L Understanding World Literature

Language and Culture (See Requirements for Undergraduate Degrees section of this Catalog for requirement)

COMM 101R Public Speaking ** 3
or
COMM 103R Voice and Diction ** 3
Information Literacy and Research 3

ARTH 121A Introduction to the Visual Arts ** 3
or
MUSC 264A Music in History and Culture *** 3
HIST 104H Interpreting the American Past ** 3
Impact of Technology (met within major)
TLED 430 PK-12 Instructional Technology *** 3
GEOG 100S Cultural Geography ** 3

Select one of the following: 3
PHIL 110P Introduction to Philosophy
PHIL 230E Introduction to Ethics
PHIL 250E World Religions: Beliefs and Values
(PHIL 230E or 250E recommended)

MATH 102M College Algebra ***+ 3
or
MATH 103M College Algebra with Supplemental Instruction ***+ 3
or
MATH 162M Precalculus I ***+ 3

Select one of the following: ** 4
BIOL 105N Biology for Nonscience Majors I
BIOL 106N Biology for Nonscience Majors II
BIOL 110N Environmental Sciences
& BIOL 111N and Environmental Sciences Lab
BIOL 117N Introduction to Human Biology
& BIOL 118N and Introduction to Human Biology Lab
BIOL 121N General Biology I
& BIOL 122N and General Biology I Lab
BIOL 123N General Biology II
& BIOL 124N and General Biology II Lab

Select one of the following: *** 4
CHEM 105N Introductory Chemistry
& CHEM 106N and Introductory Chemistry Laboratory
CHEM 107N Introductory Organic and Biochemistry
& CHEM 108N and Introductory Organic and Biochemistry Laboratory
CHEM 121N Foundations of Chemistry I Lecture
& CHEM 122N and Foundations of Chemistry I Laboratory
CHEM 123N Foundations of Chemistry II Lecture
& CHEM 124N and Foundations of Chemistry II Laboratory

PHYS 101N Conceptual Physics
PHYS 102N Conceptual Physics
PHYS 111N Introductory General Physics
PHYS 112N Introductory General Physics

Total Hours 38-44

Professional Education (meets upper-division general education requirements)

TLED 430 PK-12 Instructional Technology *** 3
TLED 408 Reading and Writing in Content Areas 3
TLED 468 Language Acquisition and Reading for Students with Diverse Learning Needs 3
SPED 313 Fundamentals of Human Growth and Development: Birth through Adolescence 3
SPED 400 Foundations of Special Education: Legal Aspects and Characteristics 3
SPED 402 Instructional Design I: Learner Characteristics and Assessment 3
SPED 411 Classroom and Behavioral Management Techniques for Students with Diverse Needs 3
SPED 417 Collaboration and Transitions 3
SPED 415 Instructional Design II: Curricular Procedures and Individualized Education Planning *** 3
SPED 403 Directed Field Experience in Special Education *** 2
SPED 483 Field Experience Seminar in Special Education ***** 1
SPED 486 Teacher Candidate Internship for Special Endorsement ***** 12

Total Hours 40-41

Total Degree Credits 120-127
This undergraduate concentration leads to licensure to teach with the B.S. degree. Teacher candidates should consult with the director of special education programs in the Darden College of Education for additional information.

Departmental requirements for all teacher candidates, not met by the associate degree.

Admission to undergraduate teacher education program required prior to registration for SPED 415, SPED 403, SPED 483, and SPED 486. SPED 415 and SPED 403 will each require 45 practicum hours. A background clearance check is required prior to practicum placement. Teacher candidates should request an elementary school placement in SPED 415 and a middle/high school placement in SPED 403. In SPED 486 teacher candidates will student teach 7 weeks at the elementary level and 7 weeks at the secondary level.

NOTE: ALL STUDENTS MUST EARN A MINIMUM OF 12 CREDIT HOURS FOR THE BACCALAUREATE DEGREE, WHICH MUST INCLUDE BOTH A MINIMUM OF 30 CREDIT HOURS OVERALL AND 12 CREDIT HOURS IN UPPER-LEVEL COURSES IN THE MAJOR PROGRAM FROM OLD DOMINION UNIVERSITY.

If credit is received for ARTH 121A, teacher candidates must take MUSC 308 or MUSC 460 or an approved upper-level Music fine and performing arts course; if credit is received for MUSC 264A, teacher candidates must take ARTS 305 or an approved upper-level Art fine and performing arts course.

Grade of C or better is required in MATH 102M or MATH 103M or MATH 162M to enroll in MATH 302 and MATH 335.

LiveText is required for all Teacher Candidates in TLED 430.

Passing scores on the Special Education exit exam, the Reading for Virginia Educators Assessment, Virginia Communication and Literacy Assessment, and PRAXIS II Elementary Education Content Knowledge Test are required in SPED 483 and prior to SPED 486.

Licensure in Special Education, General Curriculum, K-12, Highly Qualified in Secondary English and Elementary Education Concentration – (not offered through Distance Learning)*

General Education Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENGL 110C</td>
<td>English Composition **</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 211C</td>
<td>English Composition **</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 111L</td>
<td>Introduction to Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 114L</td>
<td>American Writers, American Experiences</td>
<td></td>
</tr>
<tr>
<td>FLET 100L</td>
<td>Understanding World Literature</td>
<td></td>
</tr>
<tr>
<td>COMM 101R</td>
<td>Public Speaking **</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>COMM 103R Voice and Diction **</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>Information Literacy and Research</td>
<td>3</td>
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<tr>
<td>ARTH 121A</td>
<td>Introduction to the Visual Arts **</td>
<td>3</td>
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<tr>
<td>or</td>
<td>MUSC 264A Music in History and Culture **</td>
<td></td>
</tr>
<tr>
<td>HIST 104H</td>
<td>Interpreting the American Past **</td>
<td>3</td>
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</table>

Impact of Technology (met within major)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>TLED 430</td>
<td>PK-12 Instructional Technology **</td>
<td></td>
</tr>
<tr>
<td>GEOG 100S</td>
<td>Cultural Geography **</td>
<td>3</td>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>PHIL 110P</td>
<td>Introduction to Philosophy</td>
<td>3</td>
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<tr>
<td>PHIL 230E</td>
<td>Introduction to Ethics</td>
<td></td>
</tr>
<tr>
<td>PHIL 250E</td>
<td>World Religions: Beliefs and Values</td>
<td></td>
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<tr>
<td>(PHIL 230E or 250E recommended)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 102M</td>
<td>College Algebra **</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>MATH 103M College Algebra with Supplemental Instruction **</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>MATH 162M Precalculus I **</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
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<td></td>
</tr>
<tr>
<td>BIOL 105N</td>
<td>Biology for Nonscience Majors I</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 106N</td>
<td>Biology for Nonscience Majors II</td>
<td></td>
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<tr>
<td>BIOL 110N</td>
<td>Environmental Sciences</td>
<td></td>
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<tr>
<td>&amp; BIOL 111N</td>
<td>Environmental Sciences Lab</td>
<td></td>
</tr>
<tr>
<td>BIOL 117N</td>
<td>Introduction to Human Biology</td>
<td></td>
</tr>
<tr>
<td>&amp; BIOL 118N</td>
<td>Introduction to Human Biology Lab</td>
<td></td>
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<tr>
<td>BIOL 121N</td>
<td>General Biology I</td>
<td></td>
</tr>
<tr>
<td>&amp; BIOL 122N</td>
<td>General Biology I Lab</td>
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<tr>
<td>BIOL 123N</td>
<td>General Biology II</td>
<td></td>
</tr>
<tr>
<td>&amp; BIOL 124N</td>
<td>General Biology II Lab</td>
<td></td>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>CHEM 105N</td>
<td>Introductory Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CHEM 106N</td>
<td>Introductory Chemistry Laboratory</td>
<td></td>
</tr>
<tr>
<td>CHEM 107N</td>
<td>Introductory Organic and Biochemistry</td>
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<tr>
<td>&amp; CHEM 108N</td>
<td>Introductory Organic and Biochemistry Laboratory</td>
<td></td>
</tr>
<tr>
<td>CHEM 121N</td>
<td>Foundations of Chemistry I Lecture</td>
<td></td>
</tr>
<tr>
<td>&amp; CHEM 122N</td>
<td>Foundations of Chemistry I Laboratory</td>
<td></td>
</tr>
<tr>
<td>CHEM 123N</td>
<td>Foundations of Chemistry II Lecture</td>
<td></td>
</tr>
<tr>
<td>&amp; CHEM 124N</td>
<td>Foundations of Chemistry II Laboratory</td>
<td></td>
</tr>
<tr>
<td>PHYS 101N</td>
<td>Conceptual Physics</td>
<td></td>
</tr>
<tr>
<td>PHYS 102N</td>
<td>Conceptual Physics</td>
<td></td>
</tr>
<tr>
<td>PHYS 111N</td>
<td>Introductory General Physics</td>
<td></td>
</tr>
<tr>
<td>PHYS 112N</td>
<td>Introductory General Physics</td>
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</table>

**Total Hours** 38-44

Major Content Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 327W</td>
<td>Advanced Composition</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 350</td>
<td>Aspects of the English Language</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 370</td>
<td>English Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 301</td>
<td>Introduction to British Literature I</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 302</td>
<td>Introduction to British Literature II</td>
<td></td>
</tr>
<tr>
<td>ENGL 336</td>
<td>The Short Story (or approved upper-level literature course)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 345</td>
<td>American Literature to 1860</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 346</td>
<td>American Literature Since 1860</td>
<td></td>
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<tr>
<td>ENGL 406</td>
<td>The Teaching of Literature</td>
<td>3</td>
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<tr>
<td>ENGL 455</td>
<td>The Teaching of Composition, Grades 6-12</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
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<td></td>
</tr>
<tr>
<td>HIST 100H</td>
<td>Interpreting the World Past Since 1500</td>
<td>3</td>
</tr>
<tr>
<td>HIST 101H</td>
<td>Interpreting the Asian Past</td>
<td></td>
</tr>
<tr>
<td>HIST 102H</td>
<td>Interpreting the European Past</td>
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<tr>
<td>HIST 103H</td>
<td>Interpreting the Latin America Past</td>
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<tr>
<td>HIST 105H</td>
<td>Interpreting the African Past</td>
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</table>
HIST 356 Virginia History 3
Select one of the following: 3
ECON 200S Basic Economics
ECON 201S Principles of Macroeconomics
ECON 202S Principles of Microeconomics
POL 101S Introduction to American Politics 3
MATH 335 Number Systems and Discrete Mathematics 3
MATH 302 Geometry 3
STAT 130M Elementary Statistics 3
Select one of the following: 3-4
OEAS 110N Earth Science
OEAS 210 Environmental Earth Science
OEAS 302 Environmental Geology
OEAS 402 Field Experiences in Oceanography for Teachers
HPE 327 Teaching of Health and Physical Education, Pre-K-8 3

Total Hours 51-52

Professional Education (meets upper-division general education requirements)
TLED 430 PK-12 Instructional Technology ++ 3
TLED 408 Reading and Writing in Content Areas 3
TLED 468 Language Acquisition and Reading for Students with Diverse Learning Needs 3
SPED 313 Fundamentals of Human Growth and Development: Birth through Adolescence 3
SPED 400 Foundations of Special Education: Legal Aspects and Characteristics 3
SPED 402 Instructional Design I: Learner Characteristics and Assessment 3
SPED 411 Classroom and Behavioral Management Techniques for Students with Diverse Needs 3
SPED 417 Collaboration and Transitions 3
SPED 415 Instructional Design II: Curricular Procedures and Individualized Education Planning *** 3
SPED 403 Directed Field Experience in Special Education *** 2
SPED 483 Field Experience Seminar in Special Education ***** 1
SPED 486 Teacher Candidate Internship for Special Endorsement 6 12

Total Hours 42

Total Degree Credits**** 131-138

* This undergraduate concentration leads to licensure to teach with the B.S. degree. Teacher candidates should consult with the director of special education programs in the Darden College of Education for additional information.

** Departmental requirements for all teacher candidates, not met by the associate degree.

*** Admission to undergraduate teacher education program required prior to registration for SPED 415, SPED 403, SPED 483, and SPED 486. SPED 415 and SPED 403 will each require 45 practicum hours. A background clearance check is required prior to practicum placement. Teacher candidates should request an elementary school placement in SPED 415 and a middle/high school placement in SPED 403. In SPED 486 teacher candidates will student teach 7 weeks at the elementary level and 7 weeks at the secondary level.

**** NOTE: ALL STUDENTS MUST EARN A MINIMUM OF 120 CREDIT HOURS FOR THE BACCALAUREATE DEGREE, WHICH MUST INCLUDE BOTH A MINIMUM OF 30 CREDIT HOURS OVERALL AND 12 CREDIT HOURS IN UPPER-LEVEL COURSES IN THE MAJOR PROGRAM FROM OLD DOMINION UNIVERSITY.

Grade of C or better is required in MATH 102M or MATH 103M or MATH 162M to enroll in MATH 302 and MATH 335

++ LiveText is required for all Teacher Candidates in TLED 430.

+++ Passing scores on the Special Education exit exam, the Reading for Virginia Educators Assessment, Virginia Communication and Literacy Assessment, and PRAXIS II Elementary Education Content Knowledge Test are required in SPED 483 and prior to SPED 486. CPR/First Aid certification is required prior to SPED 486.

Licensure in Special Education Early Childhood (Birth to 5) and Adapted Curriculum (K-12) Concentration (also offered through Distance Learning)*

General Education Courses
ENGL 110C English Composition ** 3
ENGL 211C English Composition ** 3
Select one of the following: 3
ENGL 112L Introduction to Literature **
ENGL 114L American Writers, American Experiences **
FLET 100L Understanding World Literature **
Language and Culture (See Requirements for Undergraduate Degrees section of this Catalog for requirement) 0-6
COMM 101R Public Speaking ** 3
or
COMM 103R Voice and Diction ** 3
Information Literacy and Research 3
HIST 104H Interpreting the American Past ** 3
THEA 241A The Theatre Experience ** 3
Impact of Technology (met within major)
SPED 440 Assistive Technology for Diverse Students
GEOG 100S Cultural Geography ** 3
PHIL 230E Introduction to Ethics ** 3
MATH 102M College Algebra ** 3
or
MATH 103M College Algebra with Supplemental Instruction ** 3
Select one of the following: 4
BIOL 105N Biology for Nonscience Majors I
BIOL 106N Biology for Nonscience Majors II
BIOL 110N Environmental Sciences
& BIOL 111N and Environmental Sciences Lab
### Major Content Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 112N</td>
<td>Environment and Man</td>
<td>3</td>
</tr>
<tr>
<td>&amp; BIOL 113N</td>
<td>and Environment and Man Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 117N</td>
<td>Introduction to Human Biology</td>
<td>3</td>
</tr>
<tr>
<td>&amp; BIOL 118N</td>
<td>and Introduction to Human Biology Lab</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 121N</td>
<td>General Biology I</td>
<td>3</td>
</tr>
<tr>
<td>&amp; BIOL 122N</td>
<td>and General Biology I Lab</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 123N</td>
<td>General Biology II</td>
<td>3</td>
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<tr>
<td>&amp; BIOL 124N</td>
<td>and General Biology II Lab</td>
<td>3</td>
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<tr>
<td>HPE 327</td>
<td></td>
<td>3</td>
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<tr>
<td>STAT 130M</td>
<td></td>
<td>3</td>
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<tr>
<td>MATH 335</td>
<td></td>
<td>3</td>
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<tr>
<td>POLS 101S</td>
<td></td>
<td>3</td>
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<tr>
<td>HIST 356</td>
<td>Virginia History</td>
<td>3</td>
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<tr>
<td>ENGL 370</td>
<td>English Linguistics</td>
<td>3</td>
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<tr>
<td>ENGL 327W</td>
<td>Advanced Composition</td>
<td>3</td>
</tr>
<tr>
<td>HIST 100H</td>
<td>Interpreting the World Past Since 1500</td>
<td>3</td>
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<tr>
<td>or HIST 302</td>
<td>Perspectives in Teaching World History to 1500</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 101N</td>
<td>Conceptual Physics (recommended)</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 102N</td>
<td>Conceptual Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 111N</td>
<td>Introductory General Physics</td>
<td>3</td>
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<tr>
<td>PHYS 112N</td>
<td>Introductory General Physics</td>
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**Total Hours: 38-44**

### Professional Education (meets upper division general education requirements)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>TLED 468</td>
<td>Language Acquisition and Reading for Students with Diverse Learning Needs</td>
<td>3</td>
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<tr>
<td>SPED 313</td>
<td>Fundamentals of Human Growth and Development: Birth through Adolescence</td>
<td>3</td>
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<tr>
<td>SPED 400</td>
<td>Foundations of Special Education: Legal Aspects and Characteristics (PRAXIS Core required)</td>
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<tr>
<td>SPED 404</td>
<td>Characteristics and Medical Aspects of Disabling Conditions</td>
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<tr>
<td>SPED 411</td>
<td>Classroom and Behavioral Management Techniques for Students with Diverse Needs</td>
<td>3</td>
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<tr>
<td>SPED 428</td>
<td>Instructional Strategies for Students Accessing the Adapted Curriculum (45 hour practicum grades 7 - 12 required)</td>
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<tr>
<td>SPED 440</td>
<td>Assistive Technology for Diverse Students</td>
<td>3</td>
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<tr>
<td>SPED 441</td>
<td>Teaching Students with Severe Physical and Sensorimotor Disabilities</td>
<td>3</td>
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<tr>
<td>SPED 460</td>
<td>Teaching Preschoolers With Diverse Needs (45 hour practicum birth - 5 required)</td>
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<tr>
<td>SPED 461</td>
<td>Developmental/Ecological Assessment Strategies (45 hour practicum birth - 5 required)</td>
<td>3</td>
</tr>
<tr>
<td>SPED 467</td>
<td>Collaboration, Transitions and Infant-Family Intervention</td>
<td>3</td>
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<tr>
<td>SPED 469</td>
<td>Communication/Language Development/Intervention for Students with Significant Disabilities</td>
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<tr>
<td>SPED 483</td>
<td>Field Experience Seminar in Special Education</td>
<td>1</td>
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<tr>
<td>SPED 486</td>
<td>Teacher Candidate Internship for Special Endorsement (7.5 weeks birth - 5 and 7.5 weeks secondary adapted curriculum)</td>
<td>12</td>
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</table>

**Total Hours: 49**

**Total Degree Credits: 121-128**

- This undergraduate concentration leads to licensure to teach with the B.S. degree. Teacher candidates should consult with the director of special education programs in the Darden College of Education for additional information.
- **Departmental requirements for all teacher candidates, not met by the associate degree.**
- **Admission to undergraduate teacher education program required prior to registration for SPED 428, SPED 441, SPED 460, SPED 461, SPED 483, and SPED 486. Students should request a 45 hour practicum with age birth - 5 in both SPED 460 and SPED 461. Students should request a 45 hour practicum with grades 7 - 12 in SPED 428. Students should request a 45 hour practicum with grades K - 8 in SPED 441. A background clearance check is required prior to practicum placement.**
- **NOTE: ALL STUDENTS MUST EARN A MINIMUM OF 120 CREDIT HOURS FOR THE BACCALAUREATE DEGREE, WHICH MUST INCLUDE BOTH A MINIMUM OF 30 CREDIT HOURS OVERALL AND 12 CREDIT HOURS IN UPPER-LEVEL COURSES IN THE MAJOR PROGRAM FROM OLD DOMINION UNIVERSITY.**
- Grade of C or better is required in MATH 102M or MATH 103M to enroll in MATH 335
General Education Courses

** ENGL 110C English Composition ** 3
** ENGL 211C English Composition ** 3
Select one of the following: 3
** ENGL 112L Introduction to Literature **
** ENGL 114L American Writers, American Experiences **
** FLET 100L Understanding World Literature **
Language and Culture (See Requirements for Undergraduate Degrees section of this Catalog for requirement) 0-6
** COMM 101R Public Speaking **
or
** COMM 103R Voice and Diction ** 3
Information Literacy and Research 3
** THEA 241A The Theatre Experience ** 3
** HIST 104H Interpreting the American Past ** 3
Impact of Technology (met within major) 3
** TLED 430 PK-12 Instructional Technology +++
** GEOG 100S Cultural Geography ** 3
** PHIL 230E Introduction to Ethics ** 3
** MATH 102M College Algebra ** 3
or
** MATH 103M College Algebra with Supplemental Instruction **+
Select one of the following: 4
** BIOL 105N Biology for Nonscience Majors I 3
** BIOL 106N Biology for Nonscience Majors II 3
** BIOL 110N Environmental Sciences 3
& BIOL 111N and Environmental Sciences Lab 3
** BIOL 112N Environment and Man 3
& BIOL 113N and Environment and Man Laboratory 3
** BIOL 117N Introduction to Human Biology 3
& BIOL 118N and Introduction to Human Biology Lab 3
** BIOL 121N General Biology I 3
& BIOL 122N and General Biology I Lab 3
** BIOL 123N General Biology II 3
& BIOL 124N and General Biology II Lab 3
Select one of the following: ** 4
** CHEM 105N Introductory Chemistry 3
& CHEM 106N and Introductory Chemistry Laboratory 3
** CHEM 107N Introductory Organic and Biochemistry 3
& CHEM 108N and Introductory Organic and Biochemistry Laboratory 3
** CHEM 121N Foundations of Chemistry I Lecture 3
& CHEM 122N and Foundations of Chemistry I Laboratory 3
** CHEM 123N Foundations of Chemistry II Lecture 3
& CHEM 124N and Foundations of Chemistry II Laboratory 3
** PHYS 101N Conceptual Physics (recommended) 3
** PHYS 102N Conceptual Physics 3
** PHYS 111N Introductory General Physics 3

** PHYS 112N Introductory General Physics 38-44

Major Content Requirements

** ENGL 327W Advanced Composition 3
** ENGL 350 Aspects of the English Language 3
** ENGL 370 English Linguistics 3
** HIST 302 Perspectives in Teaching World History to 1500 3
** HIST 356 Virginia History 3
Select one of the following: 3
** ECON 200S Basic Economics 3
** ECON 201S Principles of Macroeconomics 3
** ECON 202S Principles of Microeconomics 3
** POLS 101S Introduction to American Politics 3
** POLS 331 State and Local Government 3
or ** POLS 311 Virginia Politics and Government 3
** GEOG 300 Maps and Geographic Information 3
** MATH 335 Number Systems and Discrete Mathematics 3
** MATH 302 Geometry 3
** STAT 130M Elementary Statistics 3
Select one of the following: 3-4
** OEAS 110N Earth Science 3
** OEAS 210 Environmental Earth Science 3
** OEAS 302 Environmental Geology 3
** OEAS 402 Field Experiences in Oceanography for Teachers 3
** HPE 327 Teaching of Health and Physical Education, Pre-K-8 3
One Physical Education activity credit 1
** MUSC 308 Music Education: Music for the Elementary Classroom Teacher 3
** ARTS 305 Elementary Art Education Methods and Classroom Management 3

Total Hours 49-50

Professional Education (meets upper division general education requirements)

** TLED 474 Foundations and Contemporary Issues in Early Childhood Education (PRAXIS Core, 40 hour observation including 10 with infants and toddlers and approved background clearance check required) 3
** TLED 430 PK-12 Instructional Technology +++ 3
** TLED 468 Language Acquisition and Reading for Students with Diverse Learning Needs 3
** TLED 408 Reading and Writing in Content Areas 3
** TLED 490 The Child and the Family: PreK-3 3
** SPED 313 Fundamentals of Human Growth and Development: Birth through Adolescence 3
** SPED 402 Instructional Design I: Learner Characteristics and Assessment 3
** SPED 406 Students with Diverse Learning Needs in the General Education Classroom 3
** SPED 411 Classroom and Behavioral Management Techniques for Students with Diverse Needs 3
** TLED 483 Seminar in Teacher Education *** 1
** TLED 492 Integrating Instruction: Mathematics and Science Across the Early Childhood Curriculum *** 3

Old Dominion University 9
TLED 493 Integrating Children's Literature, Language Arts and Social Studies across the Early Child *** 3

Total Hours 34

Total Hours**** 121-128

* This undergraduate concentration prepares students to matriculate into the graduate program in early childhood education in the Darden College of Education); teacher candidates should consult the director of this graduate program for additional information. There is no licensure with the B.S. degree. Student teaching and licensure are at the graduate level through the Darden College of Education.

** Departmental requirements for all teacher candidates, not met by the associate degree.

*** Admission to the undergraduate teacher education program is required prior to registration for TLED 483, TLED 492, and TLED 493. TLED 483 will require passing scores on PRAXIS II elementary content knowledge, the VCLA, and the RVE assessments. TLED 492 and TLED 493 each will require a 40 hour practicum and background clearance check.

**** NOTE: ALL STUDENTS MUST EARN A MINIMUM OF 120 CREDIT HOURS FOR THE BACCALAUREATE DEGREE, WHICH MUST INCLUDE BOTH A MINIMUM OF 30 CREDIT HOURS OVERALL AND 12 CREDIT HOURS OF UPPER-LEVEL COURSES IN THE MAJOR PROGRAM FROM OLD DOMINION UNIVERSITY.

** Grade of C or better is required in MATH 102M or MATH 103M to enroll in TLED 400 and MATH 335

*** LiveText is required for all Teacher Candidates in TLED 430.

Bachelor of Arts and Bachelor of Science —Interdisciplinary Studies (IDS) Major, Individualized Integrative Studies (IIS)

http://www.odu.edu/ids/individualized

Kathleen Fowler, Program Coordinator and Advisor kfowler@odu.edu

Individualized interdisciplinary studies at Old Dominion University is a degree program that seeks to serve the needs of students whose goals cannot be met within existing departmental curricula. Through interdisciplinary studies, students are able to combine courses from three or more disciplines into an individualized degree. The program makes possible the pursuit of a wide variety of interests in areas such as medieval and renaissance studies, advertising, legal studies, ecological studies, public relations, management of technical services, photo journalism, and health care administration.

Students who decide to design their own degrees must have departmental approval and faculty sponsorship. The degree awarded is a Bachelor of Science or Bachelor of Arts with a major in interdisciplinary studies in the student's area of interest.

Requirements

Lower Division General Education

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written Communication</td>
<td>6</td>
</tr>
<tr>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>Language and Culture</td>
<td>0-12</td>
</tr>
<tr>
<td>Information Literacy and Research</td>
<td>3</td>
</tr>
<tr>
<td>Human Creativity</td>
<td>3</td>
</tr>
</tbody>
</table>

Upper Division General Education

- Option A. Approved Minor, 12-24 hours; also second degree or second major
- Option B. Interdisciplinary Minor, 12 hours specified by the department, 3 of which may be in the major area of study
- Option C. International business and regional courses or an approved certification program, such as teaching licensure
- Option D. Two Upper-Division Courses from outside the College of Arts and Letters or from another Component within the College of Arts and Letters (Arts and Humanities or Social Science) that are not required by the major (6 hours). The program coordinator will specify

Individualized Program Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDS 300W - Interdisciplinary Theory and Concepts *</td>
<td>3</td>
</tr>
<tr>
<td>ENGL/IDS 307T - Digital Writing **</td>
<td>3</td>
</tr>
</tbody>
</table>

(Select one of the following): **

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDS 368 - Internship in Interdisciplinary Studies</td>
<td>3</td>
</tr>
<tr>
<td>IDS 493 - IDS Electronic Portfolio Project</td>
<td>3</td>
</tr>
<tr>
<td>IDS 497 - IDS Individualized Senior Project</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 9

* Grade of C or better required

** Senior standing and completion of IDS 300W are required for enrollment in IDS 368, IDS 493, or IDS 497.

Concentration

All individualized program students must design a concentration that includes a minimum of 42 credit hours. This includes courses from three or more disciplines that the student integrates into a single program, subject to departmental approval. At least 30 hours must be upper level. No more than two-thirds of the major area may be in one discipline.

All IDS individualized program students must prepare and submit a proposal to the Interdisciplinary Studies Committee for approval. The purpose of the proposal is to outline the courses and other learning experiences that will lead to the fulfillment of the proposed course of study. Students must have at least 30 hours of course work left in their overall degree program (this can include current and proposed courses) when the proposal is submitted to the IDS Committee. Students must complete at least 15 hours of course work in their major after acceptance into the program. Any exceptions must be approved by the IDS Committee. Students must also identify two faculty sponsors who will provide guidance as they develop their proposals and progress through the program. Acceptance decisions are made by the director of Interdisciplinary Studies, the Interdisciplinary Studies Committee, and faculty sponsors. For more information see http://www.odu.edu/ids/individualized.

Students must receive a grade of C- or better in all courses taken within the concentration area.

Electives

Elective courses may be taken for the remainder of the minimum 120 credits required for the degree.
six credits of upper-division course work outside of the major areas that can be used for this option.

Requirements for graduation include a minimum cumulative grade point average of 2.00 overall and in the major, 120 credit hours, which must include both a minimum of 30 credit hours overall and 12 credit hours of upper-level courses in the major program from Old Dominion University, completion of ENGL 110C; ENGL 211C or 221C or 231C, and the writing intensive (W) course in the major with a grade of C or better, and completion of Senior Assessment.

**Linked B.A./B.S. in Interdisciplinary Studies - Individualized Integrative Studies and M.A. in Humanities**

The linked B.A./B.S. program in interdisciplinary studies-individualized integrative studies (IIS) and the M.A. in humanities makes it possible for exceptional students whose IIS major is humanities oriented to count up to 12 hours of graduate courses toward both an undergraduate and graduate degree. Students must earn a minimum of 150 credit hours (120 for the undergraduate degree and 30 for the graduate degree). Please refer to the Humanities section of this Catalog for additional information on the linked program.

**Bachelor of Science Degree in Interdisciplinary Studies-Professional Writing Major**

Virginia M. Tucker, Program Coordinator and Advisor

The professional writing program produces graduates capable of moving into professional and technical writing fields. Students in the program complete a core of courses in technical writing as well as in business, communication, and human resources. The program is ideal for returning students already working who are interested in expanding their management skills and/or increasing their eligibility for promotion.

Course requirements are as follows.

**Lower Division General Education**

**Written Communication**

- Grade of C or better required in both courses and in ENGL 110C before declaring major.

**Oral Communication**

- See Requirements for Undergraduate Degrees section of this catalog for requirement.

**Language and Culture**

- Can be met by PHIL 303E

**Information Literacy and Research**

- Met by ENGL 307T.

**Human Creativity**

- Required grade of C or better in IDS 300W and C- or better

**Interpreting the Past**

- Select two of the following:
  - ENGL 325: Introduction to Rhetorical Studies
  - ENGL 327W: Advanced Composition
  - ENGL 334W: Technical Writing

**Total Hours**

- 9

**Professional Writing Core Courses required of all students (required grade of C- or better)**

- ENGL 325: Introduction to Rhetorical Studies
- ENGL 327W: Advanced Composition
- ENGL 334W: Technical Writing

**Total Hours**

- 9

**Organizational Foundations (required grade of C- or better; meets upper-division general education)**

- Select four from the following:
  - CS 300T: Computers in Society
  - MGMT 325: Contemporary Organizations and Management
  - MGMT 340: Human Resources Management
  - MGMT 451: Organizational Behavior
  - MKTG 311: Marketing Principles and Problems
  - MKTG 402: Consumer Behavior
  - MKTG 411: Multi-National Marketing
  - PHIL 303E: Business Ethics
  - PSYC 303: Industrial/Organizational Psychology
  - PSYC 343: Personnel Psychology
  - PSYC 344: Human Factors
  - PSYC 345: Organizational Psychology

**Total Hours**

- 12

**Additional Hours in Professional Writing (required grade of C- or better)**

- Select two of the following:
  - ENGL 335: Editing and Document Design
  - ENGL 350: Aspects of the English Language
  - ENGL 368: Writing Internship
  - ENGL 370: English Linguistics
  - ENGL 380: Reporting and News Writing I
  - ENGL 381: Public Relations
  - ENGL 395/396: Topics in English
  - ENGL 427W: Writing in the Disciplines
  - ENGL 435W: Management Writing
  - ENGL 468: Advanced Writing Internship
  - ENGL 477: Language, Gender and Power
  - ENGL 481: Advanced Public Relations
  - ENGL 484: Feature Story Writing
  - ENGL 485W: Editorial and Persuasive Writing
  - ENGL 486: Media Law and Ethics
  - ENGL 495/496: Topics in English

**Total Hours**

- 12

**Additional Hours in Communication (required grade of C- or better)**

- Select two of the following:
  - COMM 302: Communication Research Methods I
  - COMM 303: Introduction to Public Relations
  - COMM 304: Advanced Public Speaking
  - COMM 305: Professional Communication
  - COMM 314: Nonverbal Communication
  - COMM 315W: Communication Between the Sexes
  - COMM 333: Persuasion

Old Dominion University
The work and professional studies interdisciplinary program is offered through the College of Arts and Letters at Old Dominion University and the higher education centers (Virginia Beach, Tri-Cities, and the Peninsula) using the Virtual Classroom technology. The program offers a 36-hour curriculum focused on the subject of work and labor and provides opportunities for students to integrate interdisciplinary theory and research findings with the application of problem-solving skills in the work environment. Courses are drawn from the disciplines of philosophy, English, sociology, history, psychology, economics, management and occupational and technical studies to examine the meaning and experience of work. Old Dominion University students admitted to the program have a variety of credit options including portfolio review, CLEP, DANTES and departmental exams. For more information about the work and professional studies interdisciplinary program, contact Daniel O'Leary at doleary@odu.edu. Additional information, including application information, can be found at http://www.odu.edu/ids/work-studies.

**Bachelor of Science Degree in Interdisciplinary Studies - Work and Professional Studies Major**

http://www.odu.edu/ids/work-studies

Daniel O'Leary, Program Coordinator and Advisor
doleary@odu.edu

The work and professional studies interdisciplinary program is offered through the College of Arts and Letters at Old Dominion University and the higher education centers (Virginia Beach, Tri-Cities, and the Peninsula) using the Virtual Classroom technology. The program offers a 36-hour curriculum focused on the subject of work and labor and provides opportunities for students to integrate interdisciplinary theory and research findings with the application of problem-solving skills in the work environment. Courses are drawn from the disciplines of philosophy, English, sociology, history, psychology, economics, management and occupational and technical studies to examine the meaning and experience of work. Old Dominion University students admitted to the program have a variety of credit options including portfolio review, CLEP, DANTES and departmental exams. For more information about the work and professional studies interdisciplinary program, contact Daniel O'Leary at doleary@odu.edu. Additional information, including application information, can be found at http://www.odu.edu/ids/work-studies.

**Applications**

Select three from the following:

- **Comm 351** Interpersonal Communication in Organizations
- **Comm 355** Organizational Communication
- **Comm 421** Communication and Conflict Management
- **English 334W** Technical Writing
- **English 380** Reporting and News Writing I
- **English 381** Public Relations
- **English 435W** Management Writing
- **English 439** Writing in Digital Spaces
- **Fin 411** Employee Benefit Planning
- **IDS 495** Topics in Digital Spaces
- **Mgmt 340** Human Resources Management
- **Psycc 303** Industrial/Organizational Psychology
- **Psycc 343** Personnel Psychology
- **Psycc 344** Human Factors
- **Psycc 345** Organizational Psychology
- **Septs 400** Instructional Systems Development
- **Septs 402** Instructional Methods in Occupational Studies
- **Septs 495** Topics in Occupational Education (Career Management Assessment and Planning)
- **Stem 351** Communication Technology
**Electives**

Elective courses may be taken for the remainder of the minimum 120 credits required for the degree.

**Upper Division General Education**

- Option A. Approved Minor, 12-24 hours; also second degree or second major
- Option B. Interdisciplinary Minor, 12 hours specified by the department, 3 of which may be in the major area of study
- Option C. International business and regional courses or an approved certification program, such as teaching licensure
- Option D. Two Upper-Division Courses (6 hours). Any course listed as an elective choice for the major cannot be used to meet this option.

Requirements for graduation include a minimum cumulative grade point average of 2.00 overall and in the major, 120 credit hours, which must include both a minimum of 30 credit hours overall and 12 credit hours of upper-level courses in the major program from Old Dominion University, completion of ENGL 110C, ENGL 211C or 221C or 231C, and the writing intensive (W) course in the major with a grade of C or better, and completion of Senior Assessment.

**Bachelor of Science Degree in Interdisciplinary Studies-Cybersecurity Major**

Tamer Nadeem, Program Coordinator and Advisor
tnadeem@odu.edu

This IDS Bachelor of Science degree with a major in cybersecurity is offered through the College of Arts & Letters at Old Dominion University. The program offers a four-year, 120-hour curriculum focused on the subject of cybersecurity and provides opportunities for students to integrate education and training with the application of problem-solving skills in the lab environment. Courses are drawn from the disciplines of philosophy, computer science, computer engineering, information technology, and criminal justice to examine the multi-faceted nature of cybersecurity.

Students admitted to the program have a variety of credit options including portfolio review, CLEP, DANTES, and departmental exams. For more information about the cybersecurity interdisciplinary program, contact the Program Director: Tamer Nadeem, Department of Computer Science (tnadeem@odu.edu).

**Lower Division General Education**

- Written Communication 6
- Oral Communication 3
- Mathematics (MATH 211 and MATH 212 required) 6
- Language and Culture 0-6
- Information Literacy and Research 3
- Human Creativity 3
- Interpreting the Past 3
- Literature 3

**Interdisciplinary Studies Core**

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
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<tbody>
<tr>
<td>IDS 300W</td>
<td>Interdisciplinary Theory and Concepts (grade of C or higher required) **</td>
</tr>
</tbody>
</table>

Select two of the following:

- ENGL/IDS 307T | Digital Writing |
- IDS 368 | Internship in Interdisciplinary Studies |
- IDS 493 | IDS Electronic Portfolio Project |

**Law and Ethics**

Select one of the following: 3

- CRJS 405 | Cybercrime and Cybersecurity |
- PHIL 355E | Computer Ethics |

**Cybersecurity Foundations** 12

Select four from the following:

- CS 462 | Cybersecurity Fundamentals |
- or ECE/ENMA/MSIM 470 | Foundations of Cyber Security |
- CS 464 | Networked Systems Security |
- or ECE/ENMA/MSIM 411 | Networked System Security |
- CS 463 | Cryptography for Cybersecurity |
- CS 465 | Information Assurance |
- IT 417 | Management of Information Security |
- ECE 416 | Cyber Defense Fundamentals |
- or ENMA/MSIM 416 | Cyber Defense Fundamentals |
- ECE 419 | Cyber Physical System Security |
- or ENMA/MSIM 419 | Cyber Physical Systems Security |

**Cybersecurity Applications** 12

Select four from the following:

- CS 471 | Operating Systems |
- CS 495 | Topics in Computer Science (Wireless Networking and Mobile Computing) |
- ECE 452 | Introduction to Wireless Communication Networks |
- ECE 455 | Network Engineering and Design |
- IT 410 | Business Intelligence |
- IT 415 | Business Telecommunications and Networks |
- IT 461 | Implementing Internet Applications |
- ECE 417 | Secure and Trusted Operating Systems |
- or ENMA/MSIM 417 | Secure and Trusted Operating Systems |

**Total Hours** 74-86

* Grade of C or better required in both written communication courses and in ENGL 110C before declaring major. ENGL 231C is recommended as the second written communication course.
** Senior standing and completion of IDS 300W are required for enrollment in IDS 368, IDS 493, or IDS 497.
+ Other courses may be substituted with the approval of the program coordinator.

**Electives**

Elective courses may be taken for the remainder of the minimum 120 credits required for the degree.

Old Dominion University
Upper Division General Education

- Option A. Approved Minor, 12-24 hours; also second degree or second major
- Option B. Interdisciplinary Minor, 12 hours specified by the department, 3 of which may be in the major area of study
- Option C. International business and regional courses or an approved certification program, such as teaching licensure
- Option D. Two Upper-Division Courses (6 hours). Any course listed as an elective choice for the major cannot be used to meet this option.

Requirements for graduation include a minimum cumulative grade point average of 2.00 overall and in the major, 120 credit hours, which must include both a minimum of 30 credit hours overall and 12 credit hours of upper-level courses in the major program from Old Dominion University, completion of ENGL 110C, ENGL 211C or 221C or 231C, and the writing intensive (W) course in the major with a grade of C or better, and completion of Senior Assessment.

Bachelor of Science Degree in Interdisciplinary Studies - Leadership Major

Jeanie Kline, Program Coordinator and Advisor (jkline@odu.edu)

The interdisciplinary studies degree programs at Old Dominion University are for students who are interested in two or more fields of study that do not fit easily into a traditional college department. The major in Leadership is a flexible, interdisciplinary academic degree that focuses on characteristics and skills necessary to lead in organizational and social contexts, and will emphasize ethical leadership, legal issues, and written and oral communication skills. A goal of this new program is to facilitate adult students to complete their degree and as such, there is inherent flexibility in transferring existing credit. A hybrid of on-line and traditional on-campus classes results in a very flexible curriculum. Seventy five percent of courses in this major are offered on-line.

Graduates of this undergraduate degree will possess the core liberal arts skills and knowledge such as reasoning, communications and analysis that are crucial to the challenges employers, organizations and governments face. The academic and critical thinking skills taught through the Leadership curriculum are valuable on the job as well as navigating modern changes and challenges.

This Leadership major is offered through the College of Arts & Letters and coordinated with the College of Continuing Education and Professional Development. The program provides opportunities for students to integrate education and training with the application of problem-solving skills through a senior interdisciplinary project. Courses are drawn from the disciplines of communication, criminal justice, engineering management, environmental health, finance, human services, management, public administration, and philosophy to examine the multi-faceted nature of leadership. Students admitted to the program have a variety of credit options including portfolio review, CLEP, DANTES, and departmental exams.

Lower Division General Education

<table>
<thead>
<tr>
<th>Course</th>
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<td>Language and Culture</td>
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<td>Interpreting the Past</td>
<td>3</td>
</tr>
<tr>
<td>Literature</td>
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<td>Philosophy and Ethics</td>
<td>0-3</td>
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<tr>
<td>The Nature of Science</td>
<td>8</td>
</tr>
<tr>
<td>Impact of Technology</td>
<td>0-3</td>
</tr>
<tr>
<td>Human Behavior</td>
<td>3</td>
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</tbody>
</table>

Interdisciplinary Studies Core

IDS 300W  Interdisciplinary Theory and Concepts (grade of C or higher required)****

Select two of the following:

- ENGL/IDS 307T  Digital Writing
- IDS 368  Internship in Interdisciplinary Studies
- IDS 493  IDS Electronic Portfolio Project

Ethical Leadership

Select two of the following:

- CRJS 340  White-Collar Crime
- ENMA 480  Ethics and Philosophy in Engineering Applications ****
- MKTG 414  Ethics and Social Issues in Administration
- PAS 301  Ethics, Governance and Accountability in Public Service ****
- PHIL 303E  Business Ethics ****

Communication Skills and Leadership

Select two of the following:

- COMM 305  Professional Communication
- COMM 323  Leadership and Events Management
- COMM 326  Foundations of Group Communication ****
- COMM 351  Interpersonal Communication in Organizations ****
- ENGL 334W  Technical Writing ****
- ENGL 435W  Management Writing
- HMSV 339  Interpersonal Relations ****

Legal Issues

Select two of the following:

- CRJS 448  Women, Sex Discrimination and the Law ****
- ENVH 425  Occupational Safety and Health Program Management ****
- FIN 331  Legal Environment of Business ****
- IT 417  Management of Information Security
- MGMT 417  Employment Law ****

Electives

Select three classes from two different disciplines

- CS 410  Professional Workforce Development I ****
- ECON 301  Managerial Economics ****
- ENMA 301  Introduction to Engineering Management ****
- ENMA 401  Project Management ****
- ENMA 444  Leading Engineering Organizations
- ENVH 402W  Environmental Health Administration and Law
- HLTH 425  Leadership and Management for Health Professionals
- INBU 450  Global Business
- IT 360T  Principles of Information Technology
- MGMT 325  Contemporary Organizations and Management ****
- MGMT 340  Human Resources Management ****
- MGMT 350  Employee Relations Problems and Practices ****
- MGMT 451  Organizational Behavior
- PASS 409  Leadership and Cultural Competence ****
- PRTS 332  Personnel Management in Recreation
- PSYC 303  Industrial/Organizational Psychology ****
- PSYC 343  Personnel Psychology ****
- PSYC 345  Organizational Psychology
STEM 370T Technology and Society ****

Total Hours 71-83

* Grade of C or better required in both courses and in ENGL 110C and before declaring major.

** Can be met by PHIL 303E.

*** Can be met by ENGL 307T/IDS 307T, IT 360T or STEM 370T.

**** Offered on-line.

Electives
Elective courses may be taken for the remainder of the minimum 120 credits required for the degree.

Upper Division General Education

- Option A. Approved Minor, 12-24 hours; also second degree or second major
- Option B. Interdisciplinary Minor, 12 hours specified by the department, 3 of which may be in the major area of study
- Option C. International business and regional courses or an approved certification program, such as teaching licensure
- Option D. Two Upper-Division Courses (6 hours). Any course listed as an elective choice for the major cannot be used to meet this option.

Requirements for graduation include a minimum cumulative grade point average of 2.00 overall and in the major, 120 credit hours, which must include both a minimum of 30 credit hours overall and 12 credit hours of upper-level courses in the major program from Old Dominion University, completion of ENGL 110C, ENGL 211C or 221C or 231C, and the writing intensive (W) course in the major with a grade of C or better, and completion of Senior Assessment.