

# 2018 - 2019 Old Dominion University Catalog

## Bachelor of Science-Interdisciplinary Studies

### Cyber Operations

*Sample four year curriculum with a suggested ordering of courses. Students may re-order as needed.*  
*\* indicates not automatically waived with transferrable associates degree, C or better required for transfer.*  
*Courses in green are waived by the completion of an Associate degree (Not eligible for Applied Associate degrees).*

#### YEAR 1 - FRESHMAN (30 CREDITS)

##### FALL SEMESTER (16 credits)

Lower Division General Education Coursework:  
 Written Communication I (ENGL 110C)  
 Oral Communication  
 Info. Literacy and Research  
 Human Behavior  
Major Coursework:  
 MATH 211: Calculus I (Satisfies Mathematics)

VCCS Equivalency:  
 ENG 111\*  
[Transfer Guide](#)  
[Transfer Guide](#)  
[Transfer Guide\\*](#)

MTH 173, 263 or 273\*

##### SPRING SEMESTER (14 credits)

Lower Division General Education Coursework:  
 Written Communication II (ENGL 231C)  
 Interpreting the Past  
Major Coursework:  
 MATH 212: Calculus II  
 CS 150

VCCS Equivalency:  
 ENG 115 or 131\*  
[Transfer Guide](#)  
 MTH 174, 264 or 274\*  
 CSC 201, EGR 126 or ITP 132\*

#### YEAR 2 - SOPHOMORE (31 CREDITS)

##### FALL SEMESTER (15 credits)

Lower Division General Education Coursework:  
 Nature of Science I  
Major Coursework:  
 CS 252  
 CS 250  
 CS 170  
 ECE 241

VCCS Equivalency:  
[Transfer Guide](#)  
 ITN 171 or 271\*  
 CSC 210\*  
 CSC 205\*  
 EGR 270 or 277\*

##### SPRING SEMESTER (16 credits)

Lower Division General Education Coursework:  
 Nature of Science II  
Major Coursework:  
 CS 361  
 CS 270  
 CYSE/CRJS 406  
 ECE 304

VCCS Equivalency:  
[Transfer Guide](#)  
 CSC 206 or 215\*

#### YEAR 3 -JUNIOR (30 CREDITS)

##### FALL SEMESTER (15 credits)

Lower Division Gen Ed Coursework:  
 PHIL 355E (Philosophy and Ethics)  
Major Coursework:  
 CYSE 368 Internship  
 CS 381 Discrete Math  
 ECE 355 Intro Networks & Data Communication  
 Approved Program Elective \*

VCCS Equivalency:

##### SPRING SEMESTER (15 credits)

Major Coursework:  
 CYSE 301 Introduction to Cybersecurity  
 Approved Program Elective \*  
 CS 390 Introduction to Theoretical Computer Science  
 IDS 300W Interdisciplinary Theory & Concepts  
 ECE 346 Microcontrollers

VCCS Equivalency:

#### YEAR 4 - SENIOR (30 CREDITS)

##### FALL SEMESTER (15 credits)

Lower Division Gen Ed Coursework:  
 Human Creativity  
Major Coursework:  
 CS 465 Information Assurance  
 ECE/ENMA/MSIM 416 Cyber-Defense Fundamentals  
 CS 471 Operating Systems Concepts  
 CS 464 Networked Systems Security

VCCS Equivalency:  
[Transfer Guide](#)

##### SPRING SEMESTER (15 credits)

Lower Division Gen Ed Coursework:  
 Literature  
Major Coursework:  
 ECE 455 Network Engineering and Design  
 ECE 419 Cyber Physical Systems Security  
 IDS 493 e-Portfolio  
 CS 495 Topics: Reverse Software Engineering

VCCS Equivalency:  
[Transfer Guide](#)

Please Note: This curriculum sheet does not include the University's General Education Language and Culture requirement.

\* Approved Program Electives include: CS 462, CS 476, CYSE 407, ECE 483, IT 417, MSIM 470. Consult your Advisor for additional recommendations

Note: 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.