## 2015-2016 Old Dominion University Catalog

**Bachelor of Science-Interdisciplinary Studies: Cyber Security**

*This is an Interdisciplinary Studies Bachelor of Science degree with a Major in Cybersecurity, not an Engineering degree.*

**Note:** This is a “sample” four year curriculum with a suggested ordering of courses. Students have the flexibility of re-ordering as needed.

### YEAR 1 - FRESHMAN (30-31 CREDITS)

#### FALL SEMESTER (16 credits)

- **Lower Division General Education Coursework:**
  - Written Communication I (ENGL 110C) 3
  - Oral Communication (COMM 101R) 3
  - Info. Literacy and Research 3
  - Human Behavior (CRJS 215S or SOC 201S) 3

- **Major Coursework:**
  - MATH 211: Calculus I (Satisfies Mathematics) 4

#### SPRING SEMESTER (14-15 credits)

- **Lower Division General Education Coursework:**
  - Nature of Science I (must be in sequence) 4

- **Major Coursework:**
  - MATH 212: Calculus II 4
  - Choose One:
    - IT 210: Business Applications w/C++ OR CS 150: Problem Solving & Programming 1

#### SUMMER SEMESTER

- **Lower Division General Education Coursework:**
  - Written Communication II (ENGL 231C) 3
  - Oral Communication (COMM 101R) 3

- **Major Coursework:**
  - Information Literacy and Research 3
  - Human Behavior (CRJS 215S or SOC 201S) 3

### YEAR 2 - SOPHOMORE (30-31 CREDITS)

#### FALL SEMESTER (15-16 credits)

- **Lower Division General Education Coursework:**
  - Literature 3
  - Nature of Science II (must be in sequence) 4

- **Major Coursework:**
  - CS 361: Advanced Data Structures & Algorithms 3

- **CS 252 Intro Unix for Programmers** 1

- **Choose One:**
  - CS 250: Problem Solving & Programming
  - IT 310: GUI Programming C++

- **Choose One:**
  - CS 170: Intro. Comp. Architecture
  - ECE 241: Fund. Comp. Engineering

#### SPRING SEMESTER (15 credits)

- **Lower Division General Education Coursework:**
  - Interpreting the Past 3

- **Major Coursework:**
  - CS 381: Discrete Math 3

- **CS 252 Intro Unix for Programmers** 1

- **Choose One:**
  - Choose One:
    - CS 270: Comp Architecture
      - ECE 341: Digital System Design
      - IT 317: Princ of Technology Architecture

  - STAT 330: Intro. to Prob/Stat
  - ECE 304: Prob/Stat/Reliability
  - BNAL 206: Probability, Decision Analysis, & Business

### YEAR 3 - JUNIOR (30 CREDITS)

#### FALL SEMESTER (15 credits)

- **Lower Division General Education Coursework:**
  - ENGL/IDS 307T: Digital Writing (Satisfies Impact of Technology and IDS Core) 3
  - IDS 300W: Interdisciplinary Theory & Concepts (IDS Core Course required) 3

- **Major Coursework:**
  - Choose One (Law and Ethics):
    - CRJS 405: Cyber Crime and Cybersecurity*
    - PHIL 355E: Computer Ethics

  - IT 361: Systems Analysis 3

- **Choose One:**
  - ECE 355: Intro Networks & Data Comms
  - CS 455: Intro Networks & Comms

#### SPRING SEMESTER (15 credits)

- **Lower Division General Education Coursework:**
  - Philosophy and Ethics (PHIL 230E, 250E, 355E or ENMA 480) 3

- **Major Coursework:**
  - IT 450 Database Concepts 3

  - Choose One:
    - ECE 346 Microcontrollers 3

  - Cyber Core**

### YEAR 4 - SENIOR (30 CREDITS)

#### FALL SEMESTER (15 credits)

- **Major Coursework:**
  - Cyber Core** 3
  - Cyber Core** 3
  - Cyber Core** 3

  - Cyber Applications** 3

  - Upper Division Gen. Ed. Coursework**: Approved 300-/400-level course 3

  - Approved 300-/400-level course 3

#### SPRING SEMESTER (15 credits)

- **Major Coursework:**
  - Cyber Applications** 3

  - Cyber Applications** 3

  - Cyber Applications** 3

  - IDS Core Course (either 368 or 493) 3

#### SUMMER SEMESTER

- **Upper Division General Education requirement can be met thru Option A- Minor in Computer Science IF the student chooses the following CS courses:**

### Total Credit hours: 120-122

*Please Note: This curriculum sheet does not include the University's General Education Language and Culture requirement which will entail an additional six credit hours if it has not been met through high school coursework.

* If CRJS 405 is taken, the Lower Division General Education requirement for the E course must still be completed (PHIL 230E, 250E or 355E).

** From approved list – please see list in catalog and consult with advisor.

***Upper Division General Education requirement can be met thru Option A- Minor in Computer Science IF the student chooses the following CS courses:*