

2015-2016 Old Dominion University Catalog Bachelor of Science-Interdisciplinary Studies (Cyber Security)

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

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

**Indicates not automatically waived with transferrable associates degree, C or better required for transfer.*

YEAR 1 - FRESHMAN (30-31 CREDITS)			
FALL SEMESTER (16 credits)		SPRING SEMESTER (14-15 credits)	
<u>Lower Division General Education Coursework:</u> Written Communication I (ENGL 110C) Oral Communication (COMM 101R)	<u>VCCS Equivalency:</u> ENG 111* CST 100, 105 or 110*	<u>Lower Division General Education Coursework:</u> Written Communication II (ENGL 231C) Nature of Science I (PHYS 231N preferred- or PHYS 111N also accepted)	<u>VCCS Equivalency:</u> ENG 115 or 131* PHY 231 or 241; or 111 or 121*
Info. Literacy and Research Human Behavior (CRJS 215S or SOC 201S)	Transfer Guide Transfer Guide	<u>Major Coursework:</u> MATH 212: Calculus II <i>Choose One:</i> IT 210: Business Applications w/C++ CS 150: Problem Solving & Programming 1	MTH 174 or 274* CSC 201, 210, EGR 125 or EGR 126*
<u>Major Coursework:</u> MATH 211: Calculus I (Satisfies Mathematics)	MTH 173 or 273*		
YEAR 2 - SOPHOMORE (30-31 CREDITS)			
FALL SEMESTER (15-16 credits)		SPRING SEMESTER (15 credits)	
<u>Lower Division General Education Coursework:</u> Literature Nature of Science II (PHYS 232N preferred-or PHYS 112N also accepted)	<u>VCCS Equivalency:</u> Transfer Guide PHY 232 or 242; or PHYS 112 or 122*	<u>Lower Division General Education Coursework:</u> Interpreting the Past	<u>VCCS Equivalency:</u> Transfer Guide
<u>Major Coursework:</u> <i>Choose One:</i> CS 250: Problem Solving & Programming IT 310: GUI Programming C++ <i>Choose One:</i> CS 170: Intro. Comp. Architecture IT 201: Intro. to Info. Systems FCF 241: Fund. Com. Engineering CS 252 Intro Unix for Programmers	CSC 202 or 210* CSC 205* ITE 120* EGR 277* ITN 171 and 172*	<u>Major Coursework:</u> CS 381 Discrete Math <i>Choose One:</i> CS 270: Comp Architecture IT 317: Princ of Technologv Architecture <i>Choose One:</i> STAT 330: Intro. to Prob/Stat ECE 304: Prob/Stat/Reliability BNAL 206: Business Analytics <i>Choose One:</i> CS 361: Adv Data Structures & Algorithms CS 330: Obj Oriented Programming & Design IT 430: OO Programming Java	CSC 206 or 215* BUS 216*
YEAR 3 -JUNIOR (30 CREDITS)			
FALL SEMESTER (15 credits)		SPRING SEMESTER (15 credits)	
<u>Lower Division General Education Coursework:</u> ENGL/IDS 307T: Digital Writing (satisfies Impact of Technology and IDS Core)	<u>VCCS Equivalency:</u>	<u>Lower Division General Education Coursework:</u> Human Creativity Philosophy and Ethics (PHIL 230E or 250E) <i>*Approved elective if PHIL 355E was selected</i>	<u>VCCS Equivalency:</u> Transfer Guide Transfer Guide
<u>Major Coursework:</u> <i>Choose One:</i> * PHIL 355E: Computer Ethics CRJS 405: Cyber Crime and Cybersecurity IDS 300W (IDS Core Course required) <i>Choose One:</i> ECE 355 Intro Networks & Data Comms CS 455 Intro Networks & Comms IT 361 Systems Analysis		<u>Major Coursework:</u> IT 450 Database Concepts ECE 346 Microcontrollers Cyber Foundations**	
YEAR 4 - SENIOR (30 CREDITS)			
FALL SEMESTER (15 credits)		SPRING SEMESTER (15 credits)	
<u>Major Coursework:</u> Cyber Foundations** Cyber Foundations** Cyber Foundations** Cyber Applications**	<u>VCCS Equivalency:</u>	<u>Major Coursework:</u> Cyber Applications** Cyber Applications** Cyber Applications** IDS Core Course (either 368 or 493) <u>Upper Division Gen. Ed. Coursework***:</u> Approved 300-/400-level course	<u>VCCS Equivalency:</u>
<u>Upper Division Gen. Ed. Coursework***:</u> Approved 300-/400-level course			

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: 150, 250, 252, 361 (or 330) and six hours of CS at 400 level.*