

2016-2017 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)	Credits	SPRING SEMESTER (14-15 credits)	Credits	SUMMER
<u>Lower Division General Education Coursework:</u>		<u>Lower Division General Education Coursework:</u>		
Written Communication I (ENGL 110C)	3	Written Communication II (ENGL 231C recommended)	3	
Oral Communication	3	Nature of Science I (must be in sequence)	4	
Info. Literacy and Research	3			
Human Behavior (CRJS 215S or SOC 201S)	3	<u>Major Coursework:</u>		
<u>Major Coursework:</u>		MATH 212: Calculus II	4	
MATH 211: Calculus I (Satisfies Mathematics)	4	Choose One: IT 210: Business Applications w/C++ OR CS 150: Problem Solving & Programming 1	3 or 4	
YEAR 2 - SOPHOMORE (30-31 CREDITS)				
FALL SEMESTER (15-16 credits)	Credits	SPRING SEMESTER (15 credits)	Credits	SUMMER
<u>Lower Division General Education Coursework:</u>		<u>Lower Division General Education Coursework:</u>		
Literature	3	Interpreting the Past	3	
Nature of Science II (must be in sequence)	4	<u>Major Coursework:</u>		
		CS 381: Discrete Math	3	
<u>Major Coursework:</u>		CS 361: Advanced Data Structures & Algorithms	3	
CS 252 Intro Unix for Programmers	1	Choose One: CS 270: Comp Architecture ECE 341: Digital System Design IT 317: Princ of Technology Architecture	3	
Choose One: CS 250: Problem Solving & Programming IT 310: GUI Programming C++	3 or 4	Choose One: STAT 330: Intro. to Prob/Stat ECE 304: Prob/Stat/Reliability BNAL 206: Probability, Decision Analysis, & Business Statistics	3	
Choose One: CS 170: Intro. Comp. Architecture ECE 241: Fund. Comp. Engineering	3 or 4			
YEAR 3 - JUNIOR (30 CREDITS)				
FALL SEMESTER (15 credits)	Credits	SPRING SEMESTER (15 credits)	Credits	SUMMER
<u>Major Coursework:</u>		<u>Lower Division General Education Coursework:</u>		
ENGL/IDS 307T: Digital Writing (Satisfies Impact of Technology and IDS Core)	3	Philosophy and Ethics (Can be met by PHIL 355E)	3	
IDS 300W: Interdisciplinary Theory & Concepts	3	Human Creativity	3	
IT 361: Systems Analysis	3	<u>Major Coursework:</u>		
Choose One (Law and Ethics): CRJS 405: Cyber Crime and Cybersecurity* PHIL 355E: Computer Ethics	3	IT 450 Database Concepts	3	
Choose One: ECE 355: Intro Networks & Data Comms CS 455: Intro Networks & Comms	3	ECE 346 Microcontrollers	3	
		Cyber Foundations**	3	
YEAR 4 - SENIOR (30 CREDITS)				
FALL SEMESTER (15 credits)	Credits	SPRING SEMESTER (15 credits)	Credits	SUMMER
<u>Major Coursework:</u>		<u>Major Coursework:</u>		
Cyber Foundations**	3	Cyber Applications**	3	
Cyber Foundations**	3	Cyber Applications**	3	
Cyber Foundations**	3	Cyber Applications**	3	
Cyber Applications**	3	IDS 368 or 493	3	
<u>Upper Division Gen. Ed. Coursework***:</u>		<u>Upper Division Gen. Ed. Coursework***:</u>		
Approved 300-/400-level course	3	Approved 300-/400-level course	3	

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

** 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.*