2018-2019 Old Dominion University Catalog
Bachelor of Science-Interdisciplinary Studies: Cyber Operations

This is an Interdisciplinary Studies Bachelor of Science degree with a Major in Cyber Operations, 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 CREDITS)				
FALL SEMESTER (16 credits)	Credits	**SPRING SEMESTER (14 credits)**	Credits	SUMMER
Lower Division Gen Ed Coursework:		Lower Division Gen Ed Coursework:		
Written Communication I (ENGL 110C)	3	Written Communication II (ENGL 231C recommended)	3	
Oral Communication	3	Interpreting the Past	3	
Info. Literacy and Research	3	Major Coursework:		
Human Behavior	3	CS 150	4	
MATH 211: Calculus I (Satisfies Mathematics)	4	MATH 212	4	

YEAR 2 - SOPHOMORE (31 CREDITS)				
FALL SEMESTER (15 credits)	Credits	**SPRING SEMESTER (16 credits)**	Credits	SUMMER
Lower Division Gen Ed Coursework:		Lower Division Gen Ed Coursework:		
Nature of Science I	4	Nature of Science II	4	
Major Coursework:		Major Coursework:		
CS 252 Intorduction to Unix for Programers	1	CS 361 Advanced Data Structures & Algorithms	3	
CS 250 Problem Solving & Programming II	4	CS 270 Computer Architecture II	3	
CS 170 Computer Architecture I	3	CYSE/CRJS 406 Cyber Law	3	
ECE 241 Fundamentals of Computer Eng	3	ECE 304 Probability and Statistics	3	

YEAR 3 -JUNIOR (30 CREDITS)				
FALL SEMESTER (15 credits)	Credits	**SPRING SEMESTER (15 credits)**	Credits	SUMMER
Lower Division Gen Ed Coursework:		Major Coursework:		
PHIL 355E (Philosophy and Ethics)	3	CYSE 301 Introduction to Cybersecurity	3	
Major Coursework:	3	Approved Program Elective *	3	
CYSE 368 Internship		CS 390 Introduction to Theoretical Computer Science	3	
CS 381 Discrete Math	3	IDS 300W Interdisciplinary Theory & Concepts	3	
ECE 355 Intro Networks & Data Communication	3	ECE 346 Microcontrollers	3	
Approved Program Elective *	3			

YEAR 4 - SENIOR (30 CREDITS)				
FALL SEMESTER (15 credits)	Credits	**SPRING SEMESTER (15 credits)**	Credits	SUMMER
Lower Division Gen Ed Coursework:		Lower Division Gen Ed Coursework:		
Human Creativity	3	Literature	**3**	
Major Coursework:		Major Coursework:		
CS 465 Information Assurance	3	ECE 455 Network Engineering and Design	3	
ECE/ENMA/MSIM 416 Cyber-Defense Fundamentals	3	ECE 419 Cyber Physical Systems Security	3	
CS 471 Operating Systems Concepts	3	IDS 493 e-Portfolio	3	
CS 464 Networked Systems Security	3	CS 495 Topics: Reverse Software Engineering	3	

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