

**Bachelor of Science in Interdisciplinary Studies - Cybersecurity major**  
**2018-19 Old Dominion University Catalog**



Name: \_\_\_\_\_  
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 E-mail: \_\_\_\_\_

**Unofficial Evaluation** completed by: \_\_\_\_\_ Phone: \_\_\_\_\_ E-mail: \_\_\_\_\_  
 Date: \_\_\_\_\_

<b>Lower Division General Education</b>	<b>Grades</b>	<b>Credits</b>	<b>VCCS Equivalencies / Notes</b>
GEN. ED. Written Communication I (ENGL 110C)	_____	3	ENG 111
GEN. ED. Written Communication II (ENGL 231C recommen)	_____	3	ENG 115 or 131 (ENG 112 or 210 are OK)
GEN. ED. Oral Communication	_____	3	CST 100, 105, or 110
GEN. ED. Mathematics (MATH 162M)	_____	3	MTH 161,163, 166, or 171
GEN. ED. Language and Culture	_____	0-6	See note at bottom of page
GEN. ED. Information Literacy and Research	_____	3	<a href="#">See Transfer Guide</a>
GEN. ED. Human Creativity	_____	3	<a href="#">See Transfer Guide</a>
GEN. ED. Interpreting the Past	_____	3	<a href="#">See Transfer Guide</a>
GEN. ED. Literature	_____	3	<a href="#">See Transfer Guide</a>
GEN. ED. Philosophy and Ethics	_____	3	<a href="#">See Transfer Guide</a>
GEN. ED. The Nature Science	_____	8	<a href="#">See Transfer Guide</a>
GEN. ED. Impact of Technology (CYSE 200T or IT 200T)	_____	0-3	
GEN. ED. Human Behavior (CRJS 215S recommended)	_____	3	<a href="#">See Transfer Guide</a>

**Prerequisite Coursework**  
 CYSE 250 Basic Cybersecurity Programming and Networking \_\_\_\_\_ 3

*15-36 additional credits: requirements will vary with Foundation and Application choices. Work closely with your advisor to select.*

<b>Interdisciplinary Studies Core</b>	<b>Grades</b>	<b>Credits</b>	<b>Prerequisites Needed</b>
IDS 300W Interdisc. Theory & Concepts	_____	3	ENGL 211C, 221C, or 231C
CYSE 368 Cybersecurity Internship or CYSE 494 Entrepreneurship in Cybersecurity	_____	3	Approval by Director, Center for Cybersecurity Education and Research
IDS 493 IDS Electronic Portfolio Project	_____	3	IDS 300W

<b>Law and Ethics</b>	<b>Grades</b>	<b>Credits</b>	<b>Prerequisites Needed</b>
Choose from CRJS 405, CRJS/CYSE/CPS 406, or PHIL 355E	_____	3	CRJS 215S; CRJS 262 and junior standing; or ENGL 110C

<b>Cybersecurity Foundations</b> Choose four (4) of the following:	<b>Grades</b>	<b>Credits</b>	<b>Prerequisites Needed</b>
CS 462 Cybersecurity Fundamentals	_____	3	MATH 162M
CS 463 Cryptography for Cybersecurity	_____	3	MATH 162M
CS 464 Networked Systems Security	_____	3	MATH 162M
CS 465 Information Assurance	_____	3	MATH 162M
CYSE 300 Introduction to Cybersecurity	_____	3	MATH 162M or instructor permission
CYSE 301 Cybersecurity Techniques and Operations	_____	3	MATH 162M or instructor permission
IT 315 Introduction to Networking and Security	_____	3	IT 201
IT 417 Management of Information Security	_____	3	IT 315 or 360T
ECE 416 Cyber Defense Fundamentals	_____	3	MATH 212, CS 150, ECE 241, ECE 304, ECE 355
ECE 419 Cyber Physical System Security	_____	3	MATH 307, CS 150, PHYS 231, PHYS 232, ECE 201, ECE 202, ECE 241, ECE 287

<b>Cybersecurity Applications</b> Choose four (4) of the following:	<b>Grades</b>	<b>Credits</b>	<b>Prerequisites Needed</b>
CS 471 Operating Systems	_____	3	CS 270 (prereqs: MATH 102M, CS 150, CS 170) and CS 361 (prereqs: MATH 163, CS 250, CS 252)
CS 495 Topics in CS (Wireless Ntwkg and Mobile Comp.)	_____	3	Instructor permission
CYSE 407/CRJS 395 Digital Forensics	_____	3	Junior standing or instructor permission
ECE 417 Secure and Trusted Operating Systems	_____	3	MATH 307, CS 150, PHYS 231, PHYS 232, MSIM 201, MSIM 205, MSIM 281, MSIM 320, MSIM 382, MSIM 410, MSIM 470, STAT 330
ECE 452 Intro to Wireless Comm. Networks	_____	3	MATH 307, PHYS 231, PHYS 232, ECE 201, ECE 202, ECE 302, ECE 304
ECE 455 Network Engineering and Design	_____	3	MATH 212, ECE 241, ECE 304, ECE 355
IT 315 Introduction to Networking and Security	_____	3	IT 201
IT 410 Business Intelligence	_____	3	BNAL 206 (MATH 162M is prereq for BNAL 206)
IT 416 Network Server Configuration and Admin.	_____	3	IT 315
IT 418 Information Assurance	_____	3	IT 315
IT 419 Enterprise Cyber Defense	_____	3	IT 315
IT 461 Implementing Internet Applications	_____	3	IT 205, 317, 363 (IT 201 is prereq for IT 317 and 363)

**Upper Division General Education Requirements satisfied in the major. General Elective credits may be needed to meet 120 min.**

*\*The general education requirement in foreign language is met or waived for students who meet one of the following: (1) Completed high school/GED before December 31, 1985, (2) Completed the third level of one foreign language in high school, (3) Completed the second level in each of two foreign languages in high school, (4) Earned a university-parallel associate's degree approved to meet all lower division general education requirements, (5) Earned a bachelor's degree from a regionally-accredited institution prior to admission to ODU as a second degree student, or (6) Have a native language other than English.*