Bachelor of Science

Cybersecurity with a Major in Cyber Risk **Management (BS)**

Web Site: https://www.odu.edu/cyber (https://www.odu.edu/cyber/)

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The Cybersecurity degree with a major in cyber risk management focuses on the risk management and management aspects of cybersecurity. Students are required to complete core courses in the fields of cybersecurity and information systems and technology. Building upon this foundation, students are offered elective courses in compliance methodologies, cyber risk management, insurance and information systems management.

Requirements

Lower-Division General Education

Written Communication (http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#written)	6
Oral Communication (http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#oral)	3
Mathematics (http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#math)	3
Language and Culture (http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#language)	0-6
Information Literacy and Research (http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#information)	3
Human Behavior (http://catalog.odu.edu/undergraduate/ requirements-undergraduate-degrees/#behavior)	3
Human Creativity (http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#creativity)	3
Interpreting the Past (http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#interpret)	3
Literature (http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#literature)	3
Philosophy and Ethics (http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#philosophy)	3
The Nature of Science (http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#nature)	8
Impact of Technology (http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#impact)	3

Written Communication: Grade of C or better required in both written communication courses and in ENGL 110C before declaring major.

Mathematics: MATH 162M required.

Impact of Technology: met with CYSE 200T/IT 200T in the major

Human Behavior: CRJS 215S or DASC 205S/SOC 205S

Upper-Division General Education

Met in the major.

Requirements for Graduation

Requirements for graduation include the following:

- · Minimum of 120 credit hours.
- Minimum of 30 credit hours overall and 12 credit hours of upper-level courses in the major program from Old Dominion University.

- Minimum overall cumulative grade point average of C (2.00) in all courses taken.
- Minimum overall cumulative grade point average of C (2.00) in all courses taken toward the major.
- Minimum overall cumulative grade point average of C (2.00) in all courses taken toward a minor.
- Completion of ENGL 110C, ENGL 211C or ENGL 231C, and the writing intensive (W) course in the major with a grade of C or better. The W course must be taken at Old Dominion University.
- · Completion of Senior Assessment.

Cyber Risk Management Major

General Education

Complete lower-divis	ion requirements	38-44
Complete upper-divisi	ion requirements (met in the major)	
Prerequisite Courses		
IT 201	Introduction to Information Systems	3
IT 315	Introduction to Networking and Security	3
Core Courses	· ·	
IDS 300W	Interdisciplinary Theory and Concepts	3
CYSE/IT 200T	Cybersecurity, Technology, and Society	3
CYSE 201S	Cybersecurity and the Social Sciences	3
CYSE 250	Basic Cybersecurity Programming and Networking	3
CYSE 300	Introduction to Cybersecurity	3
CYSE 301	Cybersecurity Techniques and Operations	3
CYSE 368	Cybersecurity Internship	3
or CYSE 494	Entrepreneurship in Cybersecurity	
CYSE/CRJS/CPD 406	Cyber Law	3
CYSE 425W	Cybersecurity Strategy and Policy (C or better required)	3
or POLS 425W	Cybersecurity Strategy and Policy	
CS 462	Cybersecurity Fundamentals	3
IDS 493	IDS Electronic Portfolio Project	3
Principles Courses		
Select three of the foll	owing:	9
CYPD 430	Cybersecurity Compliance Methodologies I	
CYPD 431	Cybersecurity Compliance Methodologies Lab I	
CYPD 432	Cybersecurity Compliance Methodologies II	
CYPD 433	Cybersecurity Compliance Methodologies Lab II	
Select two of the follo	wing:	6
RMI 317	Principles of Risk Management and Insurance	
RMI 412	Property & Liability Insurance Company Operations	
IT 417	Management of Information Security	
IT 418	Enterprise Information Assurance	
Electives (minimum	of 19 credit hours)	
or complete prerequisas needed, to complete more than 29 credits f	electives from any discipline at ODU and/ ites for Principles and Application courses, e the required 120 credit hours. However, no rom courses in the Strome College of Business degree requirements, including named elective	19

Total Credit Hours

111-117

No more than 29 credits from courses in the Strome College of Business may be applied to the degree

courses and general electives (ACCT, BNAL, ECON, FIN, IT,

OPMT, MSCM, MGMT, ENTR, MKTG).

requirements, including named elective courses and general electives (ACCT, BNAL, ECON, FIN, IT, OPMT, MSCM, MGMT, ENTR, MKTG).

+ Other courses may be substituted with the approval of the program coordinator.

No more than two classes, or six credits, may be counted for both the major and a minor. Some minors may allow fewer credits to share.

Electives

Course

Elective credit may be needed to meet the minimum of 120 hours required for the degree.

Degree Program Guide

The Degree Program Guide is a suggested curriculum to complete this degree program in four years. It is just one of several plans that will work and is presented only as broad guidance to students. Each student is strongly encouraged to develop a customized plan in consultation with their academic advisor. Additional information can also be found in Degree Works.

Credit Hours

Course	THE	Citati Hours
Freshman		
Fall		
ENGL 110C	English Composition (Grade of C or better required)	3
MATH 162M	Precalculus I	3
Oral Communication		3
Information Literacy and Research		3
Human Behavior (CRJS 21 required)	5S or DASC 2058/SOC 205S	3
	Credit Hours	15
Spring		
CYSE 200T or IT 200T	Cybersecurity, Technology, and Society (meets Impact of Technology) or Cybersecurity, Technology, and Society	3
IT 201	Introduction to Information Systems	3
Interpreting the Past (http://requirements-undergraduate	catalog.odu.edu/undergraduate/ e-degrees/#interpret)	3
Human Creativity (http://ca requirements-undergraduate	talog.odu.edu/undergraduate/ e-degrees/#creativity)	3
Literature (http://catalog.od undergraduate-degrees/#lite	u.edu/undergraduate/requirements- crature)	3
	Credit Hours	15
Sophomore		
Fall		
ENGL 211C or ENGL 231C	Writing, Rhetoric, and Research or Writing, Rhetoric, and Research: Special Topics	3
Philosophy and Ethics (http requirements-undergraduate	c://catalog.odu.edu/undergraduate/ e-degrees/#philosophy)	3
Nature of Science I		4
CYSE 201S	Cybersecurity and the Social Sciences	3
CYSE 250	Basic Cybersecurity Programming and Networking	3
	Credit Hours	16
Spring		
Nature of Science II		4

	Credit Hours	14
Junior	Credit Hours	1.
Fall		
CYPD 430 or CYPD 431 or CYPD 432 or CYPD 433	Cybersecurity Compliance Methodologies I or Cybersecurity Compliance Methodologies Lab I or Cybersecurity Compliance Methodologies II or Cybersecurity Compliance Methodologies Lab II	
IT 315	Introduction to Networking and Security	:
Program prerequisites or el	ectives	9
	Credit Hours	15
Spring		
CYSE 425W or POLS 425W	Cybersecurity Strategy and Policy (C or better required) or Cybersecurity Strategy and Policy	:
CYSE 301	Cybersecurity Techniques and Operations	:
CYPD 430 or CYPD 431 or CYPD 432 or CYPD 433	Cybersecurity Compliance Methodologies I or Cybersecurity Compliance Methodologies Lab I or Cybersecurity Compliance Methodologies II or Cybersecurity Compliance Methodologies II cor Cybersecurity Compliance Methodologies Lab II	:
Program prerequisites or el	ectives	
Senior Fall	Credit Hours	1
CYSE 368 or CYSE 494	Cybersecurity Internship or Entrepreneurship in Cybersecurity	
CYPD 430 or CYPD 431 or CYPD 432 or CYPD 433	Cybersecurity Compliance Methodologies I or Cybersecurity Compliance Methodologies Lab I or Cybersecurity Compliance Methodologies II or Cybersecurity Compliance Methodologies Lab II	
RMI 317 or RMI 412 or IT 417 or IT 418	Principles of Risk Management and Insurance or Property & Liability Insurance Company Operations or Management of Information Security or Enterprise Information Assurance	:
IDS 300W	Interdisciplinary Theory and Concepts	:

Spring

Language and Culture I & II may be met in high school and are not included in this four-year plan. Please see requirement details.