

# Bachelor of Science

# Cybersecurity with

# a Major in Artificial

# Intelligence for

# Cybersecurity

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

## 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.

Course	Title	Credit Hours
<b>Freshman</b>		
<b>Fall</b>		
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 215S or DASC 205S/SOC 205S required)		3
<b>Credit Hours</b>		<b>15</b>
<b>Spring</b>		
CYSE/IT 200T	Cybersecurity, Technology, and Society	3
Interpreting the Past		3
Human Creativity		3
Literature		3
Elective		3
<b>Credit Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
ENGL 211C or ENGL 231C	Writing, Rhetoric, and Research (Grade of C or better required) or Writing, Rhetoric, and Research: Special Topics	3
Philosophy and Ethics		3
Nature of Science I		4
CYSE 201S	Cybersecurity and the Social Sciences	3
CYSE 250	Basic Cybersecurity Programming and Networking	3
<b>Credit Hours</b>		<b>16</b>
<b>Spring</b>		
Nature of Science II		4
CYSE 300	Introduction to Cybersecurity	3
Program prerequisites or electives		7
<b>Credit Hours</b>		<b>14</b>

<b>Junior</b>		
<b>Fall</b>		
CS 422	Introduction to Machine Learning	3
CYSE/AI 410	Artificial Intelligence (AI) Methods and Models	3
Program prerequisites or electives		9
<b>Credit Hours</b>		<b>15</b>
<b>Spring</b>		
CYSE/POLS 425W	Cybersecurity Strategy and Policy *	3
CYSE 301	Cybersecurity Techniques and Operations	3
CYSE 420 or CYSE 421	Applied Machine Learning in Cybersecurity or Generative AI in Cybersecurity	3
Required Program electives		6
<b>Credit Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
CYSE 368 or CYSE 494	Cybersecurity Internship or Entrepreneurship in Cybersecurity	3
CYSE 420 or CYSE 421	Applied Machine Learning in Cybersecurity or Generative AI in Cybersecurity	3
PHIL/AI 446	Artificial Intelligence (AI) Ethics and Policy	3
IDS 300W	Interdisciplinary Theory and Concepts *	3
Elective		3
<b>Credit Hours</b>		<b>15</b>
<b>Spring</b>		
IDS 493	IDS Electronic Portfolio Project	3
Required Program elective		3
CYSE 406 or CRJS 406 or CPD 406	Cyber Law or Cyber Law or Cyber Law	3
Electives		6
<b>Credit Hours</b>		<b>15</b>
<b>Total Credit Hours</b>		<b>120</b>

\* A grade of C or better is required in this course if it is used towards the University Writing Requirement.

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