

## CYBERSECURITY AAS

**Purpose:** The Cybersecurity AAS program is engineered for dual outcomes: immediate employment in cybersecurity and seamless transfer to four-year institutions. Aligned with the National Centers of Academic Excellence in Cybersecurity (NCAE-C) standards, the curriculum offers a two-year journey from foundational computer science to specialized cybersecurity topics. It's tailored to prepare students for industry-standard CompTIA Security+ and CompTIA CySA+ exams, blending theoretical acumen with practical skills. Whether your goal is to become a cybersecurity analyst or to continue academic pursuits, this program provides the essential toolkit for both career readiness and academic advancement.

### Award

Cybersecurity A.A.S. Degree .....	60 credits total
Cybersecurity curriculum .....	30 credits
Program Elective Courses .....	11 credits
MnTC curriculum/General Education .....	19 credits

### RECOMMENDED FULL-TIME COURSE SEQUENCE

Not all courses are scheduled every semester. See course schedule: <https://eservices.minnstate.edu/registration/search/basic.html?campusid=306>.

<b>Semester 1</b>		<b>Semester 2</b>	
COMP 1010 Linux Operating Systems	3 cr	COMP 1080 Networking Protocols and Analysis	4 cr
COMP 1140 Intro to Database & SQL	3 cr	COMP 2243 Programming & Problem Solving	4 cr
COMP 1150 Computer Science Concepts	3 cr	COMM 1114 Fundamentals of Public Speaking	3 cr
MATH 1115 College Algebra (Goal 4)	3 cr	Or	Or
Or	Or	COMM 1130 Interpersonal Communication (Goal 1)	3 cr
MATH 2208 Fundamentals of Statistics	4 cr	Goal 5 Course	3 cr
ENGL 1117 Reading and Writing Critically (Goal 1)	4 cr		
<b>Total Credits</b>	<b>16</b>	<b>Total Credits</b>	<b>14</b>
<b>Semester 3</b>		<b>Semester 4</b>	
COMP 2048 Introduction to Cybersecurity	4 cr	COMP 2049 Cybersecurity Systems	4 cr
COMP 2275 Computer Architecture	4 cr	COMP 2502 Cybersecurity Internship	1 cr
Goal 5 Course	3 cr	Or	Or
Program Electives	5 cr	COMP 2503 Cybersecurity Capstone	3 cr
		PHIL 1050 Computing and AI Ethics (Goal 6)	3 cr
		Program Elective	6 cr
<b>Total Credits</b>	<b>16</b>	<b>Total Credits</b>	<b>16</b>

### RECOMMENDED PART-TIME COURSE SEQUENCE

Not all courses are scheduled every semester. See course schedule: <https://eservices.minnstate.edu/registration/search/basic.html?campusid=306>.

<b>Semester 1</b>		<b>Semester 2</b>	
COMP 1150 Computer Science Concepts	3 cr	COMP 1140 Intro to Database & SQL	3 cr
ENGL 1117 Reading and Writing Critically (Goal 1)	4 cr	COMM 1114 Fundamentals of Public Speaking	3 cr
		Or	Or
		COMM 1130 Interpersonal Communication (Goal 1)	3 cr
<b>Total Credits</b>	<b>7</b>	<b>Total Credits</b>	<b>6</b>
<b>Semester 3</b>		<b>Semester 4</b>	
COMP 1010 Linux Operating Systems	3 cr	COMP 2243 Programming & Problem Solving	4 cr
MATH 1115 College Algebra (Goal 4)	3 cr	Program Elective	4 cr
Or	Or		
MATH 2208 Fundamentals of Statistics	4 cr		
Program Elective	3 cr		
<b>Total Credits</b>	<b>10</b>	<b>Total Credits</b>	<b>8</b>

**RECOMMENDED PART-TIME COURSE SEQUENCE**

*Not all courses are scheduled every semester. See course schedule: <https://eservices.minnstate.edu/registration/search/basic.html?campusid=306>.*

Semester 5		Semester 6	
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<b>Semester 5</b> COMP 1080 Networking Protocols and Analysis Goal 5 Course	4 cr 3 cr	<b>Semester 6</b> COMP 2048 Introduction to Cybersecurity COMP 2275 Computer Architecture	4 cr 4 cr
<b>Total Credits</b>	<b>7</b>	<b>Total Credits</b>	<b>8</b>
<b>Semester 7</b> COMP 2049 Cybersecurity Systems Goal 5 Course	4 cr 3 cr	<b>Semester 8</b> COMP 2502 Cybersecurity Internship Or COMP 2503 Cybersecurity Capstone PHIL 1050 Computing and AI Ethics (Goal 6) Program Elective	1 cr Or 3 cr 3 cr 4 cr
<b>Total Credits</b>	<b>7</b>	<b>Total Credits</b>	<b>10</b>