

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>.

Semester 1	3 cr	Semester 2	4 cr
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		
Total Credits	16	Total Credits	14
Semester 3	4 cr	Semester 4	4 cr
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	PHIL 1050 Computing and AI Ethics (Goal 6)	3 cr
Program Electives	5 cr	Program Elective	6 cr
Total Credits	16	Total Credits	14

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 1	3 cr	Semester 2	3 cr
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
Total Credits	7	Total Credits	6
Semester 3	3 cr	Semester 4	4 cr
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		
Total Credits	9	Total Credits	8

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RECOMMENDED PART-TIME COURSE SEQUENCE

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Semester 5 COMP 1080 Networking Protocols and Analysis Goal 5 Course <p style="text-align: right;">Total Credits</p>	4 cr 3 cr 7	Semester 6 COMP 2048 Introduction to Cybersecurity COMP 2275 Computer Architecture Total Credits <p style="text-align: right;">Total Credits</p>	4 cr 4 cr 8
Semester 7 COMP 2049 Cybersecurity Systems Goal 5 Course <p style="text-align: right;">Total Credits</p>	4 cr 3 cr 7	Semester 8 COMP 2502 Cybersecurity Internship PHIL 1050 Computing and AI Ethics (Goal 6) Program Elective <p style="text-align: right;">Total Credits</p>	1 cr 3 cr 4 cr 8