

# Cybersecurity

Associate of Science (AS) Degree

Program Requirements.....	30
General Education/MnTC.....	30
Total Credits .....	60

## Program Information

Cybersecurity is one of the fastest-growing career categories in the world and the need for skilled professionals to help prevent damaging and costly security breaches is at an all-time high. The Associate of Science (AS) in Cybersecurity degree program places emphasis on the fundamental skills and knowledge required to safeguard an organization's information and defend systems while preparing students for successful transfer to a four-year institution to continue their studies in computer and/or network security related fields.

## Program Goals

By completing this program, students will achieve the following learning goals:

1. Demonstrate knowledge and understanding of essential facts, concepts, design principles, policies, laws, and threats relating to computer and network security;
2. Identify and explain the impact of technology on individuals and organizations, including security and ethical issues;
3. Configure and administer systems and networks with an understanding of vulnerabilities and defensive techniques utilized to keep data secure; and
4. Communicate effectively with individuals in and outside of the field.

## Developmental Courses

Some students may need preparatory courses in the areas of English, mathematics, or reading. Courses numbered below 1000 will not apply toward this degree.

## Completion Requirements

- A minimum of 60 semester credits in courses numbered 1000 or above.
- A minimum cumulative grade point average (GPA) of 2.0 in courses numbered 1000 or above at ARCC.
- Satisfy residency requirements.
- A minimum grade of C must be earned in all program requirements.
- Completion of specific degree requirements.
- To complete your program, please submit the appropriate application found [here](#).
- The requirements of this program are subject to change without notice.

## Program Requirements: 30 credits

<input type="checkbox"/>	CNET 1100	Introduction to Information Technology .....	3
<input type="checkbox"/>	CNET 1105	Introduction to Cybersecurity .....	1
<input type="checkbox"/>	CNET 2101♦	Introduction to Networks .....	3
<input type="checkbox"/>	CNET 2110♦	Principles of IT Security .....	3
<input type="checkbox"/>	CNET 2114	Fundamentals of Linux/UNIX.....	3
<input type="checkbox"/>	CNET 2125♦*	System Virtualization.....	3
<i>*prerequisite effective beginning Spring 2024</i>			
<input type="checkbox"/>	CNET 2220♦	Cyber Operations .....	3
<input type="checkbox"/>	CNET 2230♦	Ethical Hacking.....	3
<input type="checkbox"/>	CNET 2302♦	Routing, Switching, and Wireless Essentials.....	3
<input type="checkbox"/>	CNET 2390♦	IT Service Management.....	2
<input type="checkbox"/>	CSCI 1101♦	Introduction to Computer Science and Problem-Solving.....	3

## General Education/MnTC Requirements: 30 credits

Complete at least 30 credits from the Minnesota Transfer Curriculum (MnTC), including all courses listed. You must complete at least one course in six of the ten goal areas. One course may satisfy more than one goal area, but the course credits may be counted only once.

- |                          |                                       |   |
|--------------------------|---------------------------------------|---|
| <input type="checkbox"/> | 1. Communication                      |   |
|                          | <input type="checkbox"/>              | ENGL 1120♦ <b>OR</b> ENGL 1121♦ .....                   |
|                          | <input type="checkbox"/>              | CMST 1110 <b>OR</b> CMST 2215 <b>OR</b> CMST 2220 ..... |
| <input type="checkbox"/> | 2. Critical Thinking                  |   |
| <input type="checkbox"/> | 3. Natural Science                    |   |
| <input type="checkbox"/> | 4. Mathematical/Logical Reasoning     |   |
|                          | <input type="checkbox"/>              | MATH 1200♦ <b>OR</b> PHIL 1105 .....                    |
| <input type="checkbox"/> | 5. History/Social/Behavioral Sciences |   |
|                          | <input type="checkbox"/>              | ECON 2205 .....   |
| <input type="checkbox"/> | 6. Humanities/Fine Arts               |   |
| <input type="checkbox"/> | 7. Human Diversity                    |   |
| <input type="checkbox"/> | 8. Global Perspective                 |   |
| <input type="checkbox"/> | 9. Ethical/Civic Responsibility       |   |
| <input type="checkbox"/> | 10. People and the Environment        |   |

## Program Sequence:

The sequence that follows is suggested for full-time students. Part-time students will need more time to complete this program; many courses are offered in the evening.

	Fall Semester	Spring Semester
<b>1<sup>st</sup> YEAR</b>	CNET 1100 .....	CNET 2101 .....
	CNET 1105 .....	CNET 2302.....
	CSCI 1101 .....	Gen Ed .....
	Gen Ed .....	8-10
	<b>TOTAL .....</b>	<b>TOTAL .....</b>
	<b>14-16</b>	<b>14-16</b>
<b>2<sup>nd</sup> YEAR</b>	Fall Semester	Spring Semester
	CNET 2110.....	CNET 2220.....
	CNET 2114.....	CNET 2230.....
	CNET 2125 .....	CNET 2390.....
	Gen Ed .....	Gen Ed .....
	5-7	6-8
<b>TOTAL .....</b>	<b>TOTAL .....</b>	<b>14-16</b>

♦ Course has prerequisite - see course schedule or catalog description.

^ Course requires Instructor permission.

NOTE: You are encouraged to contact an academic advisor at 763-433-1230 for course planning assistance and information about transfer credit evaluation and transfer options.



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