

Computer Networking

Associate of Science (AS) Degree

Program Requirements.....	18
Additional Requirements.....	12
General Education/MnTC.....	30
Total Credits.....	60

Program Information

The Associate of Science (AS) in Computer Networking degree program prepares individuals for entry or advancement in the career field of computer network support and administration and also provides the first two years of a bachelor's degree related to information technology and network administration. For assistance in program planning, or to explore additional transfer options, students should schedule a time to meet with an academic advisor. This degree may transfer in part or in its entirety to baccalaureate institutions. Students should meet with a representative of the transfer institution when planning their program. For additional information, visit our website at: AnokaRamsey.edu/.

Program Goals

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

1. Design and develop secure voice, video, and data networks;
2. Implement and configure networked devices;
3. Demonstrate the skills necessary to administer and monitor networks;
4. Exhibit mastery of problem-solving skills to troubleshoot existing and emerging technologies; and
5. Function as responsible and ethical network administrators for organizations and society.

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.
- Courses within the 30 credit program requirements must be completed within four years. Student may petition to extend the window beyond the four years.
- Completion of specific degree requirements.
- To receive your diploma, you must apply to graduate.
- The requirements of this program are subject to change without notice.

Program Requirements: 18 credits

<input type="checkbox"/>	CNET 1100	Introduction to Information Technology	3
<input type="checkbox"/>	CNET 1212	Client Operating Systems	3
<input type="checkbox"/>	CNET 1213♦	Server Operating Systems	3
<input type="checkbox"/>	CNET 2101♦	Introduction to Networks.....	3
<input type="checkbox"/>	CNET 2302♦	Routing, Switching, and Wireless Essentials.....	3
<input type="checkbox"/>	CNET 2305♦	Enterprise Networking, Security, and Automation .	3

Additional Requirements: 12 credits

<input type="checkbox"/>	BUS 1103	Human Relations in the Workplace	3
	OR		
<input type="checkbox"/>	BUS 1145	Customer Service.....	3

Electives: Select a minimum of 9 credits from the following:

<input type="checkbox"/>	CNET 1000	IT Exploration.....	2
<input type="checkbox"/>	CNET 1105	Introduction to Cybersecurity	1
<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
<input type="checkbox"/>	CNET 2200♦	Network Forensics	2
<input type="checkbox"/>	CNET 2215♦	Managing Network Security	3
<input type="checkbox"/>	CNET 2230♦	Ethical Hacking.....	3
<input type="checkbox"/>	CNET 2297^	Field Experience and Seminar.....	1-4
<input type="checkbox"/>	CSCI 1101♦	Introduction to Computer Science and Problem-Solving.....	3

General Education/MnTC Requirements: 30 credits

Complete at least 30 credits in courses 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♦ OR ENGL 1121♦ |
| | | <input type="checkbox"/> CMST 1110 OR CMST 2215 OR 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♦ OR 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
1st YEAR	CNET 1100	CNET 1213.....
	CNET 1212.....	CNET 2101
	GenEd or Electives .8-10	CNET 2302.....
	TOTAL	GenEd or Electives... 5-7
	14-16	TOTAL
		14-16
2nd YEAR	Fall Semester	Spring Semester
	BUS 1103 or BUS 1145....	GenEd or Electives.14-16
	CNET 2305.....	
	GenEd or Electives. 8-10	
TOTAL	TOTAL	
	14-16	14-16

♦ 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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