

System Administration

Associate of Applied Science (AAS) Degree

| | |
|------------------------------|----|
| Program Requirements | 22 |
| Program Electives | 22 |
| General Education/MnTC | 16 |
| Total Credits | 60 |

Program Information

The Associate of Applied Science (AAS) in System Administration degree program provides students with the fundamental knowledge and skills required for learning industry specific methodologies and recognized standards associated with computer system administration. Students will develop skills and knowledge required to execute system administration and management tasks. The curriculum combines coursework in system administration along with a general education component. 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.

Program Goals

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

1. Design and develop plans for various project and operational needs;
2. Successfully install and configure modern data center devices and technologies;
3. Demonstrate the skills necessary to maintain system and environmental standards;
4. Exhibit mastery of problem-solving skills to investigate and troubleshoot issues; and
5. Function as a responsible and ethical IT professional for organizations and society.

Developmental Courses

Some students may need preparatory courses in the areas of English, mathematics, reading, or typing/keyboarding. 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 44 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.

◆ *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.

Program Requirements: 22 credits

| | | |
|-------------------------------------|--|---|
| <input type="checkbox"/> BUS 1103 | Human Relations in the Workplace | 3 |
| OR | | |
| <input type="checkbox"/> BUS 1145 | Customer Service..... | 3 |
| <input type="checkbox"/> CNET 1100 | Introduction to Information Technology | 3 |
| <input type="checkbox"/> CNET 1105 | Introduction to Cybersecurity | 1 |
| <input type="checkbox"/> CNET 1212 | Client Operating Systems | 3 |
| <input type="checkbox"/> CNET 1213◆ | Server Operating Systems | 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 |

Program Electives: 22 credits

Select 22 credits from the following:

| | | |
|-------------------------------------|---|-----|
| <input type="checkbox"/> CNET 1000 | IT Exploration..... | 2 |
| <input type="checkbox"/> CNET 2101◆ | Introduction to Networks..... | 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"/> CNET 2302◆ | Routing, Switching, and Wireless Essentials..... | 3 |
| <input type="checkbox"/> CNET 2305◆ | Enterprise Networking, Security, and Automation. 3 | |
| <input type="checkbox"/> CSCI 1101◆ | Introduction to Computer Science and Problem-Solving..... | 3 |

General Education/MnTC Requirements: 16 credits

Complete a minimum of 16 credits in at least three of the ten goal areas of the Minnesota Transfer Curriculum (MnTC), including the courses listed below.

| | |
|--|---|
| <input type="checkbox"/> 1. Communication | |
| <input type="checkbox"/> ENGL 1120◆ OR ENGL 1121◆ | 4 |
| <input type="checkbox"/> CMST 1110 OR CMST 2215 OR CMST 2220 | 3 |
| <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 | 3 |
| <input type="checkbox"/> 5. History/Social/Behavioral Sciences | |
| <input type="checkbox"/> ECON 2205..... | 3 |
| <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 | |