

**Program Information**

The Associate of Applied Science (AAS) in Network Administration program provides students with the fundamental knowledge and skills required for learning industry specific methodologies and recognized standards associated with network administration. Students will develop skills and knowledge required to execute network administration and management tasks. The curriculum combines coursework in network 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 implement data connectivity for local and wide area networks;
2. Develop and maintain network security procedures;
3. Monitor and measure the performance of the network;
4. Research, plan and oversee network and telephone systems; 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. See page 27.
- A minimum grade of C must be earned in all program requirements.
- All program requirements must be completed at ARCC.
- Courses within the 45 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: 33 credits**

|                                     |  |   |
|-------------------------------------|--|---|
| <input type="checkbox"/> CNET 1115  | IT and Data Assurance .....                    | 3 |
| <input type="checkbox"/> CNET 1201  | A+ Core Hardware and OS Technologies.....      | 3 |
| <input type="checkbox"/> CNET 2101  | Introduction to Networks (CCNA 1) .....        | 3 |
| <input type="checkbox"/> CNET 2112  | Desktop Operating Systems.....                 | 3 |
| <input type="checkbox"/> CNET 2205  | Fundamentals of Wireless LANs .....            | 3 |
| <input type="checkbox"/> CNET 2215♦ | Managing Network Security .....                | 3 |
| <input type="checkbox"/> CNET 2301♦ | Routing and Switching Essentials (CCNA 2)..... | 3 |
| <input type="checkbox"/> CNET 2303♦ | Scaling Networks (CCNA 3) .....                | 3 |
| <input type="checkbox"/> CNET 2304♦ | Connecting Networks (CCNA 4) .....             | 3 |
| <input type="checkbox"/> CNET 2320♦ | Unified Communications/VoIP .....              | 3 |
| <input type="checkbox"/> BUS 1103   | Human Relations in the Workplace .....         | 3 |

**Program Electives: 12 credits**

Select 12 credits from the following:

|                                     |   |     |
|-------------------------------------|---|-----|
| <input type="checkbox"/> CNET 1101  | PC Troubleshooting, Maintenance and Repair.....           | 2   |
| <input type="checkbox"/> CNET 2105  | Security Awareness and Policies.....                      | 1   |
| <input type="checkbox"/> CNET 2113♦ | Network Operating Systems .....                           | 3   |
| <input type="checkbox"/> CNET 2114  | Fundamentals of Linux/UNIX.....                           | 3   |
| <input type="checkbox"/> CNET 2125♦ | System Virtualization.....                                | 3   |
| <input type="checkbox"/> CNET 2297^ | Field Experience and Seminar .....                        | 1-4 |
| <input type="checkbox"/> BUS 1119   | Database Management Using Microsoft Access.....           | 3   |
| <input type="checkbox"/> CSCI 1101♦ | Introduction to Computer Science and Problem Solving..... | 3   |

**General Education/MnTC Requirements: 15 credits**

Complete at least one course in three of the ten goal areas below, including listed courses.

- |  |   |
|--|---|
| <input type="checkbox"/> 1. Communication  |   |
| <input type="checkbox"/> ENGL 1120♦ <b>OR</b> ENGL 1121♦ .....                   | 4 |
| <input type="checkbox"/> CMST 1110 <b>OR</b> CMST 2215 <b>OR</b> 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♦ <b>OR</b> 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                          |   |

♦ 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.