

# COMPUTER INFORMATION SYSTEMS SYSTEM ADMINISTRATION SPECIALIST

## Business Division

The associate of applied science degree with specialization as a system administration specialist is designed to train students in LAN, Windows Server networking, hardware maintenance, data communication concepts, various PC operating systems and administration fundamentals.

### Career Opportunities

Graduates of this program will potentially be prepared for entry-level employment as:

- Computer system administrators
- Network administrators
- Network operating system specialists
- System/software administrators

For more information, please see the following link on the Bureau of Labor Statistics website:

<http://www.bls.gov/ooh/computer-and-information-technology/network-and-computer-systems-administrators.htm>.

### Transfer Information

For information regarding transfer opportunities for this, or any program, please visit the Transfer section of the MCCC website.

Note: The following codes identify courses that satisfy MCCC's General Education Requirements:

- (C1) GE Natural Sciences Competency
- (C2) GE Mathematics Competency
- (C3) GE Writing Competency
- (C4) GE Computer Literacy Competency
- (C5) GE Human Experience Competency
- (C6) GE Social Systems Competency

Required General Education Courses	Credits
C1 Natural Science Competency .....	4
C2 Mathematics Competency* .....	3 or 4
C3 ENGL 151 (English Composition I) .....	3
C4 CIS 130 (Introduction to Computer Information Systems) .....	3
C5 Expressions of the Human Experience Competency .....	3
C6 Social Systems Competency .....	3

\* MATH 126 (Mathematics for Business) is recommended for students whose goal is to complete the AAS degree and seek employment. MATH 151 (Intermediate Algebra) or higher is recommended for students interested in transferring.

See the General Education Requirements on page 35 or the college website ([www.monroecc.edu](http://www.monroecc.edu)) for a list of courses that satisfy the General Education Learning Competencies.

Required Core Courses	Credits
CIS 130 (Introduction to Computer Information Systems) .....	C4
CIS 208 (PC Operating Systems) .....	3
CIS 209 (Network Concepts) .....	3
CIS 220 (Hardware Maintenance) .....	4
IAS 103 (Information Security Principles) .....	3

System Administration Concentration	Credits
CIS 135 (Scripting Language Programming) .....	3-4
or CIS 150** (Computer Science I) .....	3-4
CIS 140 (Help Desk Concepts) .....	3
CIS 205 (Systems Analysis & Design) .....	3
CIS 228 (Linux Administration) .....	3
CIS 230 (Windows Server) .....	3
CIS 234 (Advanced Windows Server) .....	4

General Electives Courses	7-9
<i>(as required to complete 60 hours)</i>	

**Total Degree Requirements** **60 credits**

**Total Degree Cost** **61 minimum billable contact hours**

## Certificate Program: System Administration Specialist

This certificate program focuses on knowledge and skills that are essential for those specializing in network software.

Required Courses	Credits
CIS 130 (Introduction to Computer Information Systems) .....	3
CIS 135 (Scripting Language Programming) .....	3
or CIS 150** (Computer Science I) .....	3-4
CIS 208 (PC Operating Systems) .....	3
CIS 209 (Network Concepts) .....	3
CIS 228 (Linux Administration) .....	3
CIS 230 (Windows Server) .....	3
CIS 234 (Advanced Windows Server) .....	4
IAS 103 (Information Security Principles) .....	3

\*\* CIS 135 (Scripting Language Programming) is recommended for students whose goal is to complete the AAS degree and seek employment. CIS 150 (Computer Science I) or higher is recommended for students interested in transferring.

**Total Certificate Requirements** **25-26 credits**

**Total Certificate Cost** **25 minimum billable contact hours**