Communication is the name of the game in today’s flattening global marketplace and computer network systems make that communication possible. As a result, trained professionals are increasingly in demand to protect and build smart and secure networks. MHCC’s Networking and Operating Systems AAS degree program covers the various systems, hardware, applications and software programs that go into networked computers. Courses in this program cover monitoring network performance, installing and configuring systems and maintaining network security.

**Program Outcomes**

At the completion of this program, students should be able to:

- Describe and demonstrate the functions and features of current operating systems
- Demonstrate proficiency in common industry software applications (word processing, spreadsheet, presentation and database) to effectively communicate in a professional business setting
- Demonstrate ability to research business and employment information using published materials, electronic media, databases and the Internet
- Demonstrate organizational communication skills, both oral and written, through effective use of technological tools
- Prepare an effective e-portfolio which documents a student’s academic and experiential foundations suitable for use with an employment or continuing education application
- Apply critical thinking skills during the problem-solving process to address organizational and technical problems
- Work collaboratively to share information, resolve conflict and make decisions
- Install and configure Linux and Windows based desktop and network operating systems
- Prepare a comprehensive plan for implementing a LAN (local area network) in a small business environment
- Configure commonly used network operating system services such as authentication, file and web services
- Synthesize addressing mechanisms for computer networks
- Prepare an enterprise-network security plan that meets or exceeds the current vulnerability or threats attacking networks

Students planning to transfer to a four-year school must consult with the institution they will be attending as well as work with a CIS faculty adviser. In all schedule planning, it is important for the student to check the course description for prerequisite information.
WE280CA_ Cooperative Education Internship 4

Credits 15

Total Credits 94.95

1 Course not already in curriculum, with prefix CIS, CS or ISTM.

Students intending to transfer should take MTH111 Pre-Calculus I: Elementary Functions ★ or above, excluding MTH211 Fundamentals of Elementary Mathematics I, and consult with the institution they will be attending as well as work with a CIS faculty adviser.

★ Course offered online
☐ Cultural Literacy course