

## Computer Information Systems Degree (CIS)

This degree will prepare students for the information technology field especially related to IT support specialist and helpdesk entry positions. Students will utilize software applications, networks, and web servers; query database applications to locate, evaluate, and use data; create web pages and web graphics; create written documentation and oral presentations; configure, monitor, secure, and administer network resources; as well as demonstrate technical skills and ability in analyzing, assessing, diagnosing, and trouble-shooting hardware, software, network, and other desktop issues. Additionally, students will gain knowledge related to a broad overview of information security.

| Number                     | Suggested Course Order                | Cr  | Semester | Grade | Prerequisites/Notes   |
|----------------------------|---------------------------------------|-----|----------|-------|---|
| CIS109                     | Programming in Basic                  | 3   |          |       | FYE101, MAT092, RDG098, or placement  |
|                            | Social Science Elective               | 3   |          |       | <b>Electives:</b> ANT, ECO, GEO, HIS, POL, PSY, SOC, SSC  |
| CIS127                     | Computer Technologies                 | 3   |          |       | ENG098, FYE101, RDG098, or placement  |
| ENG101                     | English Composition I                 | 3   |          |       | ENG098, FYE101, RDG098, or placement  |
| CIS140                     | Microcomputer Networking Applications | 3   |          |       | FYE101, MAT092, RDG098, or placement  |
| CIS123                     | Microcomputer Database Management     | 3   |          |       | MAT092 or placement; CIS120 or CIS127, or permission of division dean   |
|                            | Professional Elective                 | 3   |          |       | <b>Electives:</b> BUS112, BUS125, ENG106, THE113  |
| ENG102                     | English Composition II                | 3   |          |       | ENG101  |
| MAT126                     | Topics in Mathematics (or higher)     | 3   |          |       | MAT096 or placement   |
| CIS143                     | Computer Service and Repair           | 3   |          |       | FYE101, MAT092, RDG098, or placement  |
|                            | CIS Elective                          | 3   |          |       | CIS118 or higher  |
|                            | CED203 or<br>CIS Elective             | 3   |          |       | <b>Prerequisites for CED:</b> QPA of 2.5 or higher, 21 earned credits, permission of division dean<br><b>Notes:</b> See above CIS Electives; CED203 recommended |
|                            | CGD Elective or<br>CIS Elective       | 3   |          |       | <b>Electives:</b> Any CGD course<br><b>Note:</b> See above CIS Electives  |
|                            | Science Elective                      | 3/4 |          |       | <b>Electives:</b> BIO, BTC, CHE, EAS, EGM, NRD, PHY   |
|                            | ACC/BUS/MGT/MKT Elective              | 3   |          |       | <b>Electives:</b> ACC, BUS, MGT, MKT  |
| CIS219                     | Principles of Information Security    | 3   |          |       | Completion of 24 CIS credits or permission of division dean   |
|                            | CIS Elective                          | 3   |          |       | <b>Note:</b> See above CIS Electives  |
|                            | Humanities Elective                   | 3   |          |       | <b>Electives:</b> ART, ASL, ENG, FRE, HUM, MUS, PHL, SPA, THE   |
|                            | Health Elective                       | 2/3 |          |       | <b>Electives:</b> BIO101, BIO103, BIO112, BIO230, CHC101, CHC102, CHC108, CHC220, EXS102, EXS201, PER126, PER127, PER130  |
|                            | General Elective                      | 3   |          |       | <b>Electives:</b> Any course (see page 65 for exceptions)   |
| <b>Total:59/61 credits</b> |                                       |     |          |       |   |

See page 103 of the college catalog for program competencies and technical standards.

**Campus/format:** A majority of this program can be completed online or during the day at the Gardner Campus.

**Helpful hints:** To be successful, students must spend additional time outside of class completing assignments. Access to a computer with the appropriate software is essential. MWCC provides computer access in various labs and in the library, as available.

**Transfer options:** Although this program prepares students for entry-level positions, students also transfer to four-year colleges and universities. Transfer agreements exist with Charter Oak State College and the University of Phoenix.

Visit MWCC's transfer services website:  
<http://transfer.mwcc.edu>.

3 Plus ONE eligible—go to:  
[www.mwcc.edu/3PlusONE](http://www.mwcc.edu/3PlusONE).

**Special requirements:** Students are required to complete the CIS courses as listed. Prior to enrolling in each course, students must ensure they meet the course prerequisites. The Principles of Information Security course serves as the program's final, or capstone, course. The college's adaptive computer lab, providing assistive technology for students with disabilities, is available. Technical standards must be met with or without accommodations.

**Career options:** Careers in the information technology fields including: programming, networking, web systems development, and software application support. A recent survey of graduates indicated employment as software quality specialists, programmer, programmer/business analyst, MIS staff, and NT administrator.

**Earning potential:** \$32,110 to \$53,640 per year.