

SOFTWARE ENGINEERING

CAREER ROADMAP

MCCC CAREER MAJOR

REQUIRED COURSES¹

- Applications of AI
- Web Design & Development
- Programming & Software Development
- Database Applications Development

COLLEGE CREDIT

Students have the opportunity to earn college credit in this program.

GOALS

- Earn High School Diploma
- Earn Industry Certifications

MCCC INDUSTRY CERTIFICATIONS*

- Information Technology Specialist
- Internet Computing Core Certifications (IC3)
- Microsoft Office Specialist (MOS)
- CPR / First Aid
- Pre-Apprenticeship (ApprenticeOhio)

JOB PLACEMENT | INTERNSHIPS

- Software Engineer
- Web Developer
- Programmer
- Mobile Application Developer
- Business/Systems Analyst
- Quality Assurance Analyst
- Technical Support Specialist

TECHNICAL CAREERS

ASSOCIATE DEGREE³

- Software Engineering
- Programming & Software Development
- Computer Science
- Web Development
- Mobile Application Development
- Game & Design Development
- 3D Digital Design
- Information Technology

ADVANCED CERTIFICATIONS²

- Microsoft Certified Solutions Associate
- Microsoft Certified Solutions Developer
- Microsoft Certified Solutions Expert
- COMP TIA IT Fundamentals
- COMP TIAA+
- COMP TIA Project+

JOBS WITH WORK EXPERIENCE & ASSOCIATE DEGREE³

- Software Developer
- Web Developer
- Mobile Application Developer
- Business/Systems Analyst
- Quality Assurance Analyst
- Technical Support Specialist
- Project Coordinator
- Database Applications Developer/Administrator

PROFESSIONAL CAREERS

BACHELOR DEGREE³

- Software Engineering, Computer Science, Management Information Systems, Web Development, Mobile Application Development, Game Design & Development, 3D Digital Design

MASTER DEGREE³

- Software Engineering, Computer Science
- Data Science, Information Systems & Technology, Business Analytics, Project Management, Data Science

DOCTORAL DEGREE³

- Software Engineering, Computer Science, Data Science, Information Systems & Technologies, Business Analytics, Project Management

EXTENSIVE WORK EXPERIENCE³

- Senior Software Engineer, Software Development Manager, Solution/Enterprise Architect, Director of Software Development, Senior Business/Systems Analyst, Project Manager, Senior Web Developer, Senior Quality Assurance Analyst, Senior Database Applications Developer/Administrator, IT Manager, Data Scientist, Chief Information Officer (CIO), Chief Technical Officer (CTO)

¹ Courses contain multiple subjects & languages

² Certifications are extensive in some categories

³ Examples of degrees and work experience options are extensive

*Examples only. Degrees and work experience options are extensive.

*Students who meet certification criteria will have the opportunity to test in their CT program.

