



## SOFTWARE ENGINEERING

COURSES | CREDENTIALS | CREDITS

### SUBJECT CODES: REQUIRED COURSES

CODE	DESCRIPTION	OHE   CTAG
145130	Applications of AI	--
145010	Web Design	1
145060	Programming	1
145096	Database Applications Development	--
TOTAL CTAGS		2

### INDUSTRY RECOGNIZED CREDENTIALS (IRC) OPPORTUNITIES

CREDENTIAL	VENDOR/PROVIDER	IRC POINTS
Information Technology Specialist: <i>Artificial Intelligence, Python, JavaScript, Data Analytics, HTML and CSS</i>	<a href="#">Certiport</a>	1-15
Internet Computing Core Certification (IC3)	<a href="#">Certiport</a>	2
MOS: Microsoft Word, Excel, PowerPoint	<a href="#">Certiport</a>	9
MOS: Microsoft Outlook, Access	<a href="#">Certiport</a>	6
CPR & First Aid	MCCC	1
Pre-Apprenticeship	<a href="#">ApprenticeOhio</a>	12
TOTAL IRC POINTS		45

### TRANSCRIPTED IN-STATE TRANSFERABLE CREDIT OPPORTUNITIES

COLLEGE/UNIVERSITY	DEGREE/COURSES	POTENTIAL CREDITS
Cuyahoga Community College	Information Technology Concepts	3
OHE   CTAG	Web Design	3
OHE   CTAG	Programming	3

### ARTICULATION AGREEMENTS

COLLEGE/UNIVERSITY	DEGREE/COURSES	POTENTIAL CREDITS
<a href="#">University of Akron</a>	Associate of Technical Studies	19
<a href="#">Kent State University</a>	Associate of Applied Business in Computer Technology	12

#### **Subject Codes: Required Courses**

The Ohio Department of Education and Workforce requires courses to be taught within the career-technical program.

#### **Industry-Recognized Credential (IRC) Opportunities**

Each approved Ohio Department of Education and Workforce industry-recognized credential has been assigned a point value based on employer demand and other factors, allowing students the opportunity to bundle credentials for graduation. Career-technical education credentials primarily reflect education, industry licenses, certificates, and postsecondary degrees.

#### **Transcripted In-State Transferable Credit / CTAGs**

Alignment between secondary and postsecondary career-technical education content. Earned college credits are transferable to Ohio public higher education institutions (OHE).

#### **Articulation/Bilateral Agreements and Opportunities**

A partnership between institutions (MCCC and colleges/universities) to recognize credits that will be accepted when a student enrolls in a college or university to pursue a specific degree program.



## CTAGs (CAREER TECHNICAL ASSURANCE GUIDES)

CTAG transferable credits are earned through career technical WebXam assessments (See SUBJECT CODES: REQUIRED COURSES on the first page) and are alignments between secondary (high school) and postsecondary (e.g., college) institutions. The postsecondary institution retrieves and verifies data if the students check the box on their WebXam(s) giving consent. Support for acquiring CTAGs varies at postsecondary institutions. Students should notify the postsecondary institutions of their available CTAG transferable credits.

**STEP 1:** Pass MCCC Career Major WebXam(s) and ensure the box at the end of the exam is checked allowing Ohio institutions to obtain score(s).

**STEP 2:** Contact postsecondary counselor and inform them of the CTAG transferable credits in the following areas:

145010 **Web Design**  
145060 **Programming**

**STEP 3:** Notify the postsecondary Registrar's office, Tech Prep office, or department chair as applicable.

## ARTICULATION AGREEMENTS

Articulation agreements are partnerships between institutions (MCCC and colleges/universities) to recognize credits that will be accepted when a student enrolls in a college or university to pursue a specific degree program. Articulation agreements are non-transferable.

**STEP 1:** Complete articulated credit application (See ARTICULATION AGREEMENTS links on first page) and submit application to MCCC instructor. If a link is not available, please contact the MCCC instructor or the Career Services Coordinator.

**STEP 2:** Contact postsecondary counselor and inform them of the postsecondary credit earned through the articulated agreement.

**STEP 3:** Notify the postsecondary Registrar's office, Tech Prep office, or department chair as applicable.