



ENGINEERING TECHNOLOGY & DESIGN

COURSES | CREDENTIALS | CREDITS

SUBJECT CODES: REQUIRED COURSES

CODE	DESCRIPTION	OHE CTAG
175001	Engineering Design	1
175006	Computer-Integrated Manufacturing	1
178019	Plan Reading	1
175002	Engineering Principles	--
175009	Engineering Capstone	--
TOTAL CTAGs		3

INDUSTRY- RECOGNIZED CREDENTIALS (IRC) OPPORTUNITIES

CREDENTIAL	VENDOR/PROVIDER	IRC POINTS
KUKA KORE Robot Programming & Operation	KUKA	6
Autodesk AutoCAD User	Certiport	4
Autodesk Inventor User	Certiport	4
Autodesk Revit User	Certiport	4
OSHA 10 - HR	CareerSafe	1
CPR First Aid	MCCC	1
Pre-Apprenticeship	ApprenticeOhio	12
TOTAL IRC POINTS		32

TRANSCRIPTED IN-STATE TRANSFERABLE CREDIT OPPORTUNITIES

COLLEGE/UNIVERSITY	COURSES	POTENTIAL CREDITS
Cuyahoga Community College	Introduction to Robotics	2
Cuyahoga Community College	Basic Robotics with Math	2
OHE CTAG	Engineering Design	3
OHE CTAG	Computer-Integrated Manufacturing	3
OHE CTAG	Plan Reading	3
OHE CTAG	Engineering Principles	3

ARTICULATION AGREEMENTS

COLLEGE/UNIVERSITY	DEGREE/COURSE	POTENTIAL CREDITS
University of Akron	Associate of Technical Studies	15

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 institutions of higher education (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.



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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:

175001	Engineering Design
175006	Computer Integrated Manufacturing
178019	Plan Reading
175002	Engineering Principles

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.