

Engineered Construction, CAS

Academic Year 2026-2027

Program Description:

The Engineered Construction, CAS degree program is a one-year program that prepares students for entry-level employment in the engineered construction and advanced building manufacturing industry, with a focus on Structural-Insulated Panel (SIP) construction.

Program Outcomes:

- Identify Structural Insulated Panel (SIP) industry best practices
- Create basic construction drawings using computer-aided design (CAD) software
- Safely operate CNC panel construction equipment to produce SIP components
- Follow OSHA regulations in engineered construction operations environments
- Apply classroom knowledge in real-world settings through on-the-job training (OJT)
- Communicate interpersonal skills with supervisors and peers

Career Outlook and Salary forecast:

For the most current information please refer to the Bureau of Labor Statistics “Occupational Outlook Handbook” found at www.bls.gov/ooh/.

Program Admission Requirements:

This program has admission and candidacy requirements in addition to the Mountwest Community and Technical College admission guidelines.

Contact Information:

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www.mctc.edu

Mountwest Community & Technical College
Academic Year 2026-2027

03/03/2026

Engineered Construction, CAS – Major Code CE85

Name:	ID Number 942-
Educational Counselor:	
Faculty Advisor:	

COURSE	REQUIREMENTS	SEM	HRS	GR	SUBSTITUTE/REPEAT CRS	SEM	CR
CNST 101	Basic Construction	SU	3				
OSHA 130	OSHA 30	SU	2				
EME 101	First Aid/CPR	SU	1				
FORK 101	Basic Forklift Operations	SU	1				
			7				
ENCO 110	Introduction to Engineered Construction	F	3				
ENCO 120	Fundamentals of SIP Shop Drawings and Digital Fabrication	F	2				
ENCO 130	Fundamentals of SIP Manufacturing	F	2				
ENCO 140	SIP Packaging and Shipping	F	2				
ENCO 296	ENCO Work Experience I	F	3				
			12				
ENCO 210	Advanced SIP Manufacturing & Quality Control	SP	2				
ENCO 220	SIP Site Coordination and Planning	SP	2				
ENCO 230	SIP Panel Assembly and Installation	SP	3				
ENCO 240	SIP Weatherization Methods	SP	2				
ENCO 297	ENCO Work Experience II	SP	3				
			12				
	Hours Required for Graduation		31				