

2024-2025 OCCUPATIONAL CERTIFICATE (CERT) AWC ADVISEMENT CHECK SHEET

Sign in to your [Self-Service Student Planning](#) account to load the recommended program map and to track your academic progress.

MANUFACTURING

Student Name	ID #	Advisor	Major Code: CERT.MFG Credits: 41-43
---------------------	-------------	----------------	--

This certificate is comprised of six stackable certificates*: Basic Manufacturing, Basic Manufacturing CAD, Advanced Manufacturing CAD, Basic Power Generation, Electrical for Manufacturing, and Manufacturing-Automation for Metals Joining and Severing Processes and one additional course. Students who complete the six stackable certificates and this certificate will also earn an OSHA-10 Construction Safety Card or an OSHA-30 Construction Safety Card and NCCER certification in demonstrated skills.

Required Major Courses (45 Credits)		Cr	Sem	Notes
Basic Manufacturing Certificate*				
MFG 185	Quality Control and Inspection	3		
MFG 195	Materials Science and Metallurgy	3		
MFG 201	Machinery/Indust. Valve & Pump, Maintenance & Repair	3		
Basic Manufacturing CAD Certificate*				
CNC 101	CNC Machine Operator	3		
DFT 100	AutoCad 1 - Drafting	3		
Advanced Manufacturing CAD Certificate*				
CNC 201	Computer Aided Programming for CNC Machines	3		
DFT 100	AutoCad 1 - Drafting	3		
DFT 180	CAD with Solidworks	3		
Basic Power Generation Certificate*				
ECT 240	Power Generation Operation, Maintenance & Repair	3		
Electrical for Manufacturing Certificate*				
ECT 105	Basic Electricity	3		
ECT 210	Control Circuits	4		
ECT 230	Programmable Logic Controllers	3		
Manufacturing-Automation for Metals Joining and Severing Processes Certificate*				
WLD 109	Techniques in Gas Metal Arc Welding	3		
WLD 201	Automation for metals Joining and Severing Processes	4		
Select one of the following courses				
TEC 125	10-Hour OSHA Construction Card	1		
TEC 165	Employee and Occupational Safety	3		

* In order for students to earn one or more of the stackable certificates identified above, a student must declare one or more of the desired stackable certificates as a major, along with the manufacturing certificate.