

2024-2025 ASSOCIATE IN APPLIED SCIENCE (A.A.S) AWC ADVISEMENT CHECK SHEET

To help you decide upon which courses to include in both the major and elective blocks, you and your advisor should consult university requirements (aztransfer.com) for specific required and recommended courses. 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: AAS.MFG Credits: 64-66
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Students will learn automated manufacturing processes that involve up-to-date technologies to improve production of products from the design to manufacturing stages. This program allows AWC students the opportunity for specialization in the following stackable certificates: American Welding Society (AWS) Certificate, National Center for Construction Education and Research (NCCER), OSHA-30 Construction Safety Card, Drafting, CNC Certificates: Basic Machining and Advanced Machining, Motor Controls, Advanced Motor Controls, and Power Generation.

Required Major Courses (43-45 Credits)		Cr	Sem	Notes
CNC 101	CNC Machine Operator	3		
CNC 201	Computer Aided Programming for CNC Machines	3		
DFT 100	AutoCad 1- Drafting	3		
DFT 180	CAD with Solidworks	3		
ECT 105	Basic Electricity	3		
ECT 210	Control Circuits	4		
ECT 230	Programmable Logic Controllers	3		
ECT 240	Power Generation Operation, Maintenance & Repair	3		
MFG 185	Quality Control and Inspection	3		
MFG 195	Materials Science and Metallurgy	3		
MFG 201	Machinery/Indust. Valve & Pump, Maintenance & Repair	3		
TEC 125	10-Hour Construction Card OR	1		
TEC 165	Employee and Occupational Safety	3		
WLD 109	Techniques in Gas Metal Arc Welding	3		
WLD 201	Automation for metals Joining and Severing Processes	4		

General Education Requirements (21 Credits)		Cr	Sem	Notes
See the AAS GE course list in the current catalog for selection of courses.				

English Composition (6 credits)				
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ENG 100	Introduction to Composition	3		
ENG 101 or 107	Freshman Composition	3		
ENG 102 or 108	Freshman Composition	3		

Mathematics (3 credits)				
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MAT 105	Mathematics for the Applied Sciences OR approved higher level math	3		
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Arts/Humanities (3 credits)				
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Social and Behavioral Sciences (3 credits)				
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Physical and Biological Sciences (4 credits)				
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Additional Courses (2 credits)				
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***Dual Application of Courses** is the sharing of coursework between the AGEC and major or program requirements which allows the student to meet both requirements with a single course. Students must still meet the required number of credits to satisfy the program or degree.

List any courses used to satisfy program or degree credits due to dual application and or courses that satisfy the Cultural (C) and Global (G) or Historical (H), or Writing Intensive (WI) awareness areas.				
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