

AAS: Advanced Manufacturing & Fabrication | 91 Credits
Program Prerequisites:

- MTH 65 Beginning Algebra (4 credits) or MTH 98 Quantitative Math (4 credits) or equivalent placement
- WR 115 Introduction to Expository Writing (4 credits) or IRW 115 Critical Reading and Writing (5 credits) or equivalent placement

Coursework:

Course Number	Course Title	Prerequisites	Credits
Year 1 Fall			13
MFG 150	Basic Manufacturing Processes	Pre/co: MFG 195	3
MFG 155	Blueprint Reading	Pre/co: MFG 195	3
MFG 195	Welding Technology I	none	3
MTH 105Z or higher	Math in Society	MTH 65 or MTH 98 or equiv placement; placement into WR115	4
Year 1 Winter			15
MFG 151	Fabrication Processes 1	MFG 150	3
MFG 156	Integrated Manufacturing 1	MFG 155	3
MFG 279	Aluminum GTAW/TIG Welding	MFG 195, MFG 150	3
MFG 281	Aluminum GTAW/TIG Fabrication Processes 1	Co-req: MFG 280	3
Year 1 Spring			15
MFG 152	Fabrication Processes 2	MFG 151	3
MFG 157	Integrated Manufacturing 2	MFG 156	3
MFG 282	Aluminum GTAW/TIG Fabrication Processes 2	MFG 281	3
MFG 286	Stainless Steel GTAW/TIG Fabrication 1	MFG 285	3
MFG 287	Stainless Steel GTAW/TIG Fabrication 2	Co-req: MFG 286	3
Year 2 Fall			18
MFG 210	Introduction to Computer Aided Design and Tolerancing	MFG 155	3
MFG 220	Production Manufacturing 1	MFG 157	3
MFG 230	Metrology 1	None	3

Associate of Applied Science: Advanced Manufacturing & Fabrication 2025-26 Advising Guide

WR 121 or WR 121Z	Composition I	IRW 115 or WR 115 or place	4
WR 121Q	Corequisite for Composition I	Coreq: WR121Z	1
	General Education Elective	place into MTH 65 or MTH 98; pre/co: WR 121 or WR 121Z	
Year 2 Winter			13
MFG 211	CAD Design for CNC Manufacturing 1	MFG 210	3
MFG 221	Production Manufacturing 2	MFG 220	3
MFG 231	Metrology 2	MFG 230	3
	General Education Elective	place into MTH 65 or MTH 98; pre/co: WR 121 or WR 121Z	4
Year 2 Spring			17
MFG 212	CAD Design for CNC Manufacturing 2	MFG 211	3
MFG 222	Production Manufacturing 3	MFG 221	3
MFG 232	Metrology 3	MFG 231	3
MFG 290	Student Production Manufacturing Lab	Pre/co: MFG 212, 222	4
	General Education Elective	place into MTH 65 or MTH 98; pre/co: WR 121 or WR 121Z	4
Total Quarter Credits			91

General Education Elective Recommendations

Social Sciences:

- PSY 101 Psychology and Human Relations (4 cr.)
- SOC 204 Sociology in Everyday Life (4 cr.)

Arts & Letters:

- ART 252 Ceramics I (3 cr.)
- COMM 140 Introduction to Intercultural Communication (4 cr.)
- COMM 215 Small Group Communication: Process and Theory (4 cr.)
- COMM 237 Gender and Communication (4 cr.)

Math, Science or Computer Science

- BI 141 Habitats: Life of the Forest (4 cr.)
- ESR 171 Environmental Science: Biological Perspectives (4 cr.)
- ESR 172 Environmental Science: Chemical Perspectives (4 cr.)
- ESR 173 Environmental Science: Geological Perspectives (4 cr.)