

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 105 or 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 280	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 201	Tube and Pipe Fabrication 1	MFG 150 and MFG 155	3
MFG 210	Introduction to Computer Aided Design and Tolerancing	MFG 155	3
MFG 220	Production Manufacturing 1	MFG 157	3

WR 121 or WR 121Z	Composition I	IRW 115 or WR 115 or place	4
WR 121L	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 202	Tube Fabrication	MFG 201	3
MFG 211	CAD Design for CNC Manufacturing 1	MFG 210	3
MFG 221	Production Manufacturing 2	MFG 220	3
	General Education Elective	place into MTH 65 or MTH 98; pre/co: WR 121 or WR 121Z	4
Year 2 Spring			17
MFG 203	Pipe Fabrication and Welding	MFG 201	3
MFG 212	CAD Design for CNC Manufacturing 2	MFG 211	3
MFG 222	Production Manufacturing 3	MFG 221	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 Requirements and Electives

General Education requirements for all Associate Degree programs can be found on pages 10-11 in the CGCC catalog at cgcc.edu/catalog, or on the General Education Requirements sheet.

General Education Electives can be found on pages 12-13 in the CGCC catalog at cgcc.edu/catalog.