



Advanced Manufacturing and Fabrication AAS

(98 quarter credits)

2023-2024



Program Prerequisites:

- Placement into MTH 98 Quantitative Math (4 credits)
- Placement into WR 115 Introduction to Expository Writing (4 credits) or IRW 115 Critical Reading and Writing (5 credits)

Coursework:

Course Number	Course Title	Prereqs	Credits
Fall Term			17
MFG 150	Manufacturing Processes	Pre/co: MFG 195	3
MFG 155	Blueprint Reading	Pre/co: MFG 195	3
MFG 195	Welding Technology I	none	3
MTH 98	Quantitative Math	place into IRW 115 or WR 115; place into MTH 98	4
WR 115	Introduction to Expository Writing	Placement into WR 115 or completion of WR 90	4
Winter Term			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
MFG 285	Stainless Steel GTAW/TIG Welding	MFG 195, MFG 150	3
Spring Term			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
Fall Term			17
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

	General Education	place into MTH 65 or MTH 98; pre/co: WR 121 or WR 121Z	4
Winter Term			17
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	place into MTH 65 or MTH 98; pre/co: WR 121 or WR 121Z	4
	General Education	place into MTH 65 or MTH 98; pre/co: WR 121 or WR 121Z	4
Spring Term			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	place into MTH 65 or MTH 98; pre/co: WR 121 or WR 121Z	4
Total Quarter Credits			98

General Education Requirements

Students must earn a minimum of 16 credits of General Education taken from the list of approved courses. They must include at least one course with a minimum of 3 credits from each of the following categories. Economics courses meet 8 Social Science credits for the AAS: Accounting.

- **Arts and Letters:** Art*, Communication, English Literature, Language, Music*, Philosophy, Theater*, Writing*, Women's Studies
- **Social Sciences:** Anthropology, Economics, History, Political Science, Psychology, Sociology, Women's Studies
- **Science and Math:** Biology, Chemistry, Environmental Science, General Science, Geology, Math*

*See list of General Education Electives in current Catalog, as not all courses within discipline will meet requirement.

This form is intended for advising purposes only. See your declared catalog for a complete list of degree requirements.

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