Intermediate Manufacturing Welding: GMAW, SMAW, FCAW, and Robotics Diploma Courses

Award	Diploma
Credits	36
Program Start	Fall
Time to Complete	9 months
Course Format	Face-to-Face

2023–2024 Suggested Sequence of Study

- The following suggested sequence of study is for new full-time students starting the program Fall 2023. Part-time students should visit with a program advisor for a modified sequence of study.
- When registering for classes refer to Self-Service > Student Planning to view your specific program requirements, your progress, and ensure proper registration.
- Courses are subject to change.

•	General education course.
	Non-transfer general education course.
•	Course has a prerequisite and/or corequisite.
8WK1	Course meets the first 8 weeks of the term.
8WK2	Course meets the second 8 weeks of the term.

Term 1 — Fall		
WEL-228 Introduction to Welding, Safety, and Health of Welders: SENSE1	8WK1	1
WEL-233 Print Reading and Welding Symbol Interpretation: SENSE1	8WK1	3
WEL-274 Shielded Metal Arc Welding I: SENSE1 ▶	8WK1	3
WEL-374 SMAW Developmental I ▶	8WK1	2
WEL-245 Gas Metal Arc Welding Spray Transfer: SENSE1 ▶	8WK2	2
WEL-262 Thermal Cutting Processes I - Manual and Mechanized OxyFuel Cutting: SENSE1 ▶	8WK2	2
WEL-263 Thermal Cutting Processes II - Plasma and Carbon Steel Arc: SENSE1 ▶	8WK2	2
WEL-346 GMAW Developmental I ▶	8WK2	2
MAT-772 Applied Math -OR-		3
Math Elective		3

Total Credits 20

Term 2 — Spring		
WEL-244 Gas Metal Arc Welding Short Circuit Transfer: SENSE1 ▶	8WK1	2
WEL-280 Flux Cored Arc Welding (Self-Shielded): SENSE1 ▶	8WK1	2
WEL-281 Flux Cored Arc Welding (Gas-Shielded): SENSE1 ▶	8WK1	2
WEL-347 GMAW Developmental II ▶	8WK1	2
WEL-275 Shielded Metal Arc Welding II: SENSE1 ▶	8WK2	3
WEL-375 SMAW Developmental II ▶	8WK2	2
WEL-701 Robotic Welding		3

Total Credits 16

Math Electives	
MAT-102 Intermediate Algebra	4
MAT-110 Math for Liberal Arts ▶	3
MAT-121 College Algebra ►	4
MAT-128 Precalculus ▶	4
MAT-134 Trigonometry and Analytic Geometry ▶	3
MAT-156 Statistics ►	3
MAT-210 Calculus I ▶	4
MAT-216 Calculus II ▶	4
MAT-219 Calculus III ▶	4