

Advanced Manufacturing Welding Diploma Courses

Award	Diploma
Credits	44
Program Start	Fall, Spring
Time to Complete	1 year
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 or Spring 2024. 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

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- Math Elective		3 3
Total Credits			20

Term 2

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

Term 3 — Summer

WEL-252	Gas Tungsten Arc Welding for Aluminum: SENSE1 ►		1
WEL-253	Gas Tungsten Arc Welding for Austenitic Stainless Steel: SENSE1 ►		1
WEL-354	Gas Tungsten Arc Welding for Carbon Steel ►		3
WEL-355	Gas Tungsten Arc Welding: Developmental ►		3
Total Credits			8

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