

WELDING AND METALS FABRICATION - ADVANCED TECHNICAL CERTIFICATE (ATC)

Explore More About This Program: <https://cwi.edu/program/welding-and-metals-fabrication>

Plan of Study Guide

The course sequence listed below is strongly recommended in order to complete your program requirements. Many Career and Technical Education (CTE) courses have prerequisites and/or corequisites that have been accounted for within this Plan of Study Guide. Please register for your major requirements each semester as shown below using the Student Planning tool in myCWI. Consult your Student Success Advisor for any questions regarding this plan.

NOTE: The required general education courses may be completed during any semester the student prefers, including summer semesters.

ADVISING NOTE ON COURSE SEQUENCING: Welding and Metals Fabrication (WEMF) courses are offered in 8-week blocks. Majors may begin taking their WEMF courses at the start of any 8-week session during which they are offered but will need to complete each 8-week course block in the order listed below.

First Year

Fall		Credit Hours
First 8-Week Course Block		
WEMF 111	Safety and Leadership I	1
WEMF 125	Blueprint Reading for Welders I	1
WEMF 135	Gas Metal Arc Welding (GMAW) Practical	4
WEMF 155	Welding Theory I	1
Second 8-Week Course Block		
WEMF 112	Safety and Leadership II	1
WEMF 126	Blueprint Reading for Welders II	1
WEMF 156	Welding Theory II	1
WEMF 175	Shielded Metal Arc Welding (SMAW) Practical	4
Full 16-Week Course Block		
GEM 3 - Mathematical Ways of Knowing course		3
Total Semester Credit Hours		17

Spring

Third 8-Week Course Block		
WEMF 127	Blueprint Reading for Welders III	1
WEMF 157	Welding Theory III	1
WEMF 180	Production Welding	4
Fourth 8-Week Course Block		
WEMF 128	Blueprint Reading for Welders IV	1
WEMF 158	Welding Theory IV	1
WEMF 185	Gas Tungsten Arc Welding (GTAW) Practical	4
Full 16-Week Course Block		
Select one of the following:		3
GEM 1 - Written Communication course		
GEM 2 - Oral Communication course		
Total Semester Credit Hours		15

Second Year

Fall		
Fifth 8-Week Course Block		

WEMF 225	Blueprint Reading and Layout V	2
WEMF 255	Welding and Fabrication Workshop I	4
Sixth 8-Week Course Block		
WEMF 226	Blueprint Reading and Layout VI	2
WEMF 256	Welding and Fabrication Workshop II	4
Full 16-Week Course Block		
GEM 6 - Social & Behavioral Ways of Knowing course		3
Total Semester Credit Hours		15
Spring		
Seventh 8-Week Course Block		
WEMF 227	Blueprint Reading and Layout VII	2
WEMF 257	Welding and Fabrication Workshop III	4
Eighth 8-Week Course Block		
WEMF 228	Blueprint Reading and Layout VIII	2
WEMF 258	Welding and Fabrication Workshop IV	4
Total Semester Credit Hours		12
Minimum Credit Hours Required		59