

2023-24 ACADEMIC PROGRAMS

2023-2024 WELDING TECHNOLOGY (APWLDF)

Description

The Welding Technology program offers specialized welding and fabrication instruction through theoretical, practical and technical learning objectives and strategies. The core curriculum specializes in welding and fabrication and delves into the expanses of welding technology as a whole. Students are first introduced to welding, cutting and fabrication safety; theory and fundamentals; and then transition to more advanced welding and fabrication processes and application, such as weld quality, inspection testing and repair techniques and automated welding and cutting systems and operations. Students who successfully complete this program will have learned a diverse skillset giving them opportunities to enter the workforce as entry-level welders, fabricators, field technicians and positions them for higher learning in welding engineering, welding education or materials science.

Articulation

Eastern Michigan University, several BS degrees; Pennsylvania College of Technology, BS degree; Wayne State University, several BS degrees. Copies can be obtained from the Counseling Office, a program advisor, or from the Curriculum and Assessment Office Web site: <https://www.wccnet.edu/learn/transfer-wcc-credits/articulation-agreements.php>.

Course Requirements

First Semester

Class	Title	Minimum Credits
Elective	Math Elective(s)	3
NCT 120	Introduction to 2D CAD CAM Programming and Applications	2
WAF 106	Welding Print Reading	3
WAF 109	Welding Safety and OSHA Regulations	2
WAF 125	Introduction to Welding Processes I	2
WAF 126	Introduction to Welding Processes II	2
Total		14

Second Semester

Class	Title	Minimum Credits
WAF 130	Shielded Metal Arc Welding (SMAW)	4
WAF 131	Thermal Cutting, Gouging and Weld Repair	3
WAF 139	Basic Metal Fabrication	3
WAF 140	Inspection and Testing	3
Total		13

Third Semester

Class	Title	Minimum Credits
Elective	Writing Elective(s)	3
WAF 230	Advanced Shielded Metal Arc Welding (SMAW)	4
WAF 231	Gas Tungsten Arc Welding (GTAW)	4
WAF 232	Semi-Automatic Welding Processes	4
Total		15

Fourth Semester

Class	Title	Minimum Credits
Elective	Speech/Comp. Elective(s)	3
WAF 150	Automated Welding and Cutting	3
WAF 210	Welding Metallurgy	3
WAF 233	Submerged Arc and Flux Core Arc Welding	3
Total		12

Fifth Semester

Class	Title	Minimum Credits
Elective	Arts/Human. Elective(s)	3
Elective	Nat. Sci. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
WAF 239	Advanced Metal Fabrication	3
Total		12

Total Credits Required: 66

Accurate as of 02/15/2024 Information is subject to change without notice.