

APPLIED ENGINEERING & TECHNOLOGIES

WELDING TECHNOLOGY

Welding Technology Degree - A50420

The Welding Technology curriculum provides students with a sound understanding of the science, technology, and applications essential for successful employment in the welding and metal industry.

Instruction includes consumable and non-consumable electrode welding and cutting processes. Courses in math, blueprint reading, metallurgy, welding inspection, and destructive and non-destructive testing provides the student with industry-standard skills developed through classroom training and practical application.

Welding Technology Diploma - D50420

Successful graduates of the Welding Technology diploma curriculum may be employed as entry-level technicians in welding and metalworking industries. Career opportunities also exist in construction, manufacturing, fabrication, sales, quality control, supervision, and welding-related self-employment.

Welding Technology Certificate - C50420B

Instruction includes an introduction to consumable and non-consumable electrode welding and cutting processes. Additional courses in blueprint reading, metallurgy, and destructive testing provides the student with industry-standard skills developed through classroom training and practical application.

Successful graduates of the Welding Technology certificate curriculum may be employed as entry-level technicians in welding and metalworking industries. Career opportunities also exist in construction, manufacturing, fabrication, sales, quality control, and welding-related self-employment.

Fabrication Design Certificate - C50420C

Instruction includes an introduction to fabrication design as it applies to welding technology.

Computer Controlled Welding Certificate - C50420D

Instruction includes an introduction to computer controlled welding.

Program Sequence

First Semester

ENG 110	Freshman Composition	3
WLD 110	Cutting Processes	2
WLD 115	SMAW (Stick) Plate.....	5
WLD 121	GMAW (MIG) FCAW/Plate.....	4
WLD 141	Symbols and Specifications	3

Completes Welding Certificate (C50420B): WLD 110, WLD 115, WLD 121, WLD 141

Second Semester

MAT 110	Math Measurement and Literacy	3
WLD 116	SMAW (Stick) Plate/Pipe.....	4
WLD 122	GMAW (MIG) Plate	3
WLD 131	GTAW (TIG) Plate.....	4

Third Semester

WLD 132	GTAW (TIG) Plate/Pipe.....	3
WLD 151	Fabrication I.....	4

WLD 262	Inspection and Testing.....	3
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Completes Fabrication Design Certificate (C50420C): WLD 110, WLD 115, WLD 141, WLD 151

Completes Welding Technology Diploma (D50420): ENG 110, MAT 110, WLD 110, WLD 115, WLD 116, WLD 121, WLD 122, WLD 131, WLD 132, WLD 141, WLD 151, WLD 262

Fourth Semester

ISC 121	Environmental Health & Safety.....	3
PSY 118	Interpersonal Psychology	3
WLD 215	SMAW (Stick) Pipe	4
	Major Elective	3

Fifth Semester

COM 110	Introduction to Communication.....	3
HUM 121	The Nature of America.....	3
WLD 231	GTAW (TIG) Pipe	3
WLD 265	Automated Welding/Cutting.....	4

Completes Computer Controlled Welding Certificate (C50420D): WLD 110, WLD 115, WLD 121, WLD 141, WLD 265

Major Electives

(Select 3 hours from the following courses):

BUS 110	Introduction to Business	3
MEC 180	Engineering Materials	3
PHY 121	Applied Physics I	4
WBL 111	Work-Based Learning I.....	1
WBL 112	Work-Based Learning I.....	2

Graduation Requirements..... 67 Credit Hours