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
ELC	127	Software for Technicians	2
WLD	110	Cutting Processes	2
WLD	115	SMAW (Stick) Plate	5
WLD	141	Symbols and Specifications	3

Second Semester

COM	110	Intro to Communication	3
MAT	110	Math Measurement and Literacy	3
WLD	116	SMAW (Stick) Plate/Pipe	4
WLD	131	GTAW (TIG) Plate	4

Third Semester

WLD	132	GTAW (TIG) Plate/Pipe	3
WLD	261	Certification Practices	2
WLD	262	Inspection and Testing	3
Elective List I			2

Fourth Semester

MEC	161	Manufacturing Processes I	3
PSY	118	Interpersonal Psychology	3
WLD	121	GMAW (MIG) FCAW/Plate	4
Elective List I			3

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

Complete Computer Controlled Welding Certificate (C50420D): WLD 110, WLD 115, WLD 121, WLD 131, WLD 141

Fifth Semester

ACA	220	Professional Transition	1
HUM	110	Technology and Society	3
ISC	112	Industrial Safety	2
WLD	151	Fabrication I	4
WLD	122	GMAW (MIG) Plate	3

Complete Fabrication Design Certificate (C50420C): Choose DFT 151 + WLD 121, WLD 141, WLD 151

Complete Computer Controlled Welding Certificate (C50420D): WLD 110, WLD 115, WLD 121, WLD 131, WLD 141

Complete 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 261, WLD 262

Elective List I (Select 5 hours from the following courses):

BUS	110	Introduction to Business	3
DFT	151	CAD I	3
DFT	152	CAD II	3
DFT	170	Engineering Graphics	3
MEC	180	Engineering Materials	3
PHY	121	Applied Physics I	4
WBL	111	Work-Based Learning I	1

Graduation Requirements ..... 65 Credit Hours