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 nonconsumable 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 S	Semeste	er						
WLD	110	Cutting Processes	.2					
WLD	115	SMAW (Stick) Plate	.5					
WLD	141	Symbols and Specifications	.3					
ELC	127	Software for Technicians						
ENG	110	Freshman Composition	.3					
Secon	d Seme	ester						
WLD	116	SMAW (Stick) Plate/Pipe	.4					
WLD	131	GTAW (TIG) Plate	.4					
COM	110	Intro to Communication						
MAT	110	Math Measurement and Literacy	.3					
Third :	Semest	er						
WLD	132	GTAW (TIG) Plate/Pipe	.3					
WLD	261	Certification Practices	.2					
WLD	262	Inspection and Testing	.3					
Electiv	e List I		.1					
Fourth	Seme	ster						
WLD	121	GMAW (MIG) FCAW/Plate	.4					
MEC	161	Manufacturing Processes I	.3					
PSY	118	Interpersonal Psychology	.3					
Electiv	Elective List II							

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 S	Semes	ter			
WLD	151	Fabrication I	4		
WLD	122	GMAW (MIG) Plate	3		
HUM	110	Technology and Society	3		
ISC	112	Industrial Safety	2		
Elective List II					

Elective 1 Track 1: Complete Fabrication Design Certificate (C50420C): Choose DFT 151 + WLD 121, WLD 141, WLD 151

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

Electiv	ve List	I (Select 1 hour from the following courses):		
ACA	220	Professional Transition	1	
WLD	112	Basic Welding Processes	2	
Electiv	ve List	II (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		
WBL	111	Work-Based Learning I	1	
Graduation Requirements 65 Credit Hou				