

Welding Technology

Welding Technology Certificates (C50420)

The following certificates can be earned in the Welding Technology Program (A50420).

- Welding Technology Certificate with a Specialization in S.M.A.W. of Pipe Welding (C50420-C1) (p. 1)
- Welding Technology Certificate with a Specialization in Entry-Level Welding (C50420-C2) (p. 1)
- Welding Technology Certificate with a Specialization in Inert Gas Welding (C50420-C4) (p. 1)
- Welding Technology Certificate with a Specialization in Advanced Level Welding (C50420-C5) (p. 1)
- Welding Technology Certificate with a Specialization in Robotic Welding and Cutting (C50420-C8) (p. 1)
- Welding Technology Certificate Specialization in Advanced Welding Automation for Manufacturing (C50420-13) (p. 1)
- Welding Technology Certificate Specialization in Gas Metal Arc Welding (C50420-15) (p. 1)
- Welding Technology Certificate Specialization in Welding Technology Advanced Processes (C50420-16) (p. 2)
- Welding Technology Certificate Specialization in Entry Level Pipe-Fitting (C50420-30) (p. 2)

Admissions

Completion of a high school diploma or equivalent is encouraged as the foundation of a career in this area.

Contact Information

For more information, call the Welding Technology Program Chair at 704.330.4426 or the Skilled Trades Division at 704.330.4445.

Welding Technology Certificate with a Specialization in S.M.A.W. of Pipe Welding (C50420-C1)

Major Requirements

WLD 110	Cutting Processes	2.0
WLD 115	SMAW (Stick) Plate	5.0
WLD 141	Symbols and Specifications	3.0
WLD 116	SMAW (stick) Plate/Pipe	4.0
WLD 215	SMAW (stick) Pipe	4.0
Total Credits		18

Welding Technology Certificate with a Specialization in Entry-Level Welding (C50420-C2)

Major Requirements

WLD 110	Cutting Processes	2.0
WLD 115	SMAW (Stick) Plate	5.0
WLD 121	GMAW (MIG) FCAW/Plate	4.0
WLD 131	GTAW (TIG) Plate	4.0
WLD 141	Symbols and Specifications	3.0
Total Credits		18

Welding Technology Certificate with a Specialization in Inert Gas Welding (C50420-C4)

Major Requirements

WLD 110	Cutting Processes	2.0
WLD 121	GMAW (MIG) FCAW/Plate	4.0
WLD 131	GTAW (TIG) Plate	4.0
WLD 141	Symbols and Specifications	3.0
Total Credits		13

Welding Technology Certificate with a Specialization in Advanced Level Welding (C50420-C5)

Major Requirements

WLD 116	SMAW (stick) Plate/Pipe	4.0
WLD 122	GMAW (MIG) Plate/Pipe	3.0
WLD 132	GTAW (TIG) Plate/Pipe	3.0
WLD 261	Certification Practices	2.0
Total Credits		12

Welding Technology Certificate with a Specialization in Robotic Welding and Cutting (C50420-C8)

Major Requirements

WLD 141	Symbols and Specifications	3.0
WLD 121	GMAW (MIG) FCAW/Plate	4.0
WLD 110	Cutting Processes	2.0
ELC 111	Introduction to Electricity	3.0
WLD 265	Automated Welding/Cutting	4.0
Total Credits		16

Welding Technology Certificate Specialization in Advanced Welding Automation for Manufacturing (C50420-13)

This program is also available to high school students through Career and College Promise.

Major Requirements

WLD 110	Cutting Processes	2.0
WLD 121	GMAW (MIG) FCAW/Plate	4.0
WLD 131	GTAW (TIG) Plate	4.0
WLD 141	Symbols and Specifications	3.0
WLD 265	Automated Welding/Cutting	4.0
Total Credits		17

Welding Technology Certificate Specialization in Gas Metal Arc Welding (C50420-15)

This program is also available to high school students through Career and College Promise.

Major Requirements

WLD 110	Cutting Processes	2.0
WLD 115	SMAW (Stick) Plate	5.0
WLD 121	GMAW (MIG) FCAW/Plate	4.0

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WLD 122	GMAW (MIG) Plate/Pipe	3.0
WLD 141	Symbols and Specifications	3.0
Total Credits		17

**Welding Technology Certificate Specialization
in Welding Technology Advanced Processes
(C50420-16)**

WLD 261	Certification Practices	2.0
WLD 262	Inspection & Testing	3.0
WLD 265	Automated Welding/Cutting	4.0
WLD 268 or WLD 270	Robotic Gas Metal Arc Welding Orbital Welding TIG/Pipe	4.0
Total Credits		13

**Welding Technology Certificate Specialization in
Entry Level Pipe-Fitting (C50420-30)**

Major Requirements

PFT 110	Introduction to Pipe Fitting	4.0
MAT 110 or MAT 143	Mathematical Measurement and Literacy Quantitative Literacy	3.0
WLD 112	Basic Welding Processes	2.0
WLD 141	Symbols and Specifications	3.0
WOL 110	Basic Construction Skills	3.0
Total Credits		15