

2025-2026 TTC Catalog

General Technology - Welding

Associate in Applied Science in General Technology

Welding Career Path

64 Credit Hours

The General Technology major allows students to select course work necessary to become multi-skilled technicians. In addition to completing the college's core curriculum, students also complete course work in at least two technical areas. The following is an example of a career path available. The secondary paths may be substituted for courses in other programs' primary path. Interested students should talk with their advisors.

The welding career path prepares students for entry level employment in the welding career field, which includes manufacturing, construction, transportation, fabrication, inspection and sales. The program provides students with an overview of various welding processes and applications as well as knowledge in the areas of welding metallurgy, weld quality, print reading and welding safety.

Students can earn only one General Technology degree in a single career path.

General Education Core Requirements

ENG 101 English Composition I 3

SPC 205 Public Speaking 3

or

SPC 209 Interpersonal Communication 3

REQ HUM	Select from	3
	Humanities	

REQ MAT	Select from	3
	Mathematics/	
	Natural Sciences	

REQ SSC	Select from	3
	Behavioral/Social	
	Sciences	

Total: 15

Primary Technical Specialty - Welding Core Competencies

IET 223 Industrial Safety 3

WLD 111 Arc Welding I 4

WLD 118 Gas Metal Arc Welding Ferrous I 4

WLD 123 Gas Metal Arc Welding Non-Ferrous II 1

WLD 127 Structural Blueprints I 3

WLD 132 Inert Gas Welding Ferrous 4

WLD 133 Inert Gas Welding Ferrous Tubing 1
WLD 137 Inert Gas Welding Aluminum Tubing 1
WLD 141 Weld Quality 2
WLD 170 Qualification Welding 4
WLD 201 Welding Metallurgy 2
WLD 225 Arc Welding Pipe I 4
WLD 228 Inert Gas Welding Pipe I 4

Total: 37

Secondary Technical Specialty

Take a minimum of twelve additional credit hours from the following subject areas to meet the requirements for a secondary technical specialty. All secondary studies must be approved by your academic advisor.

Air Conditioning and Refrigeration
Automotive Technology
Business Administration
Commercial Truck Driving
Electrical Line Worker
Electrician: Automation, Construction and Industrial
Engineering Design Graphics
Industrial Maintenance
Machine Tool Technology
Mechatronics
Welding Technology

Total: 12

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.