

GENERAL TECHNOLOGY, WELDING CONCENTRATION, A.A.S. - WLDG

Students in the A.A.S. program learn to weld in the four main positions: flat, vertical, horizontal and overhead on both structured steel and pipe. Students are required to meet quality standards through practical weld tests as specified by the American Welding Society and the American Society of Mechanical Engineers Codes and Requirements. These tests ensure that graduates can perform quality work before they go on the job. These skills facilitate the student's entry into the job market, and completing an associate degree can lead to job advancement.

Requirements

Courses	Course Title	Credit Hours
General Education Courses		
ENG 101 or ENG 165	English Composition I Professional Communications	3
Select a Mathematical Requirement (https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/) or one of the following courses:		3
MAT 155	Contemporary Mathematics	
MAT 170	Algebra, Geometry and Trigonometry I	
Elective Social/Behavioral Sciences (https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/)		3
Lab Science/Mathematics (https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/)		3
Elective Humanities/Fine Arts (https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/)		3
Subtotal		15
Required Core Subject Areas		
WLD 102	Introduction to Welding	2
WLD 103	Print Reading I	1
WLD 105	Print Reading II	1
WLD 108	Gas Metal Arc Welding I	4
WLD 113	Arc Welding II	4
WLD 115	Arc Welding III	4
WLD 136	Advanced Inert Gas Welding	2
WLD 142	Maintenance Welding	3
Subtotal		21
Secondary Specialty		
MTT 120	Machine Tool Print Reading	3
MTT 121	Machine Tool Theory I	3
MTT 122	Machine Tool Practice I	4
MTT 143	Precision Measurements	2
Subtotal		12
Other Courses Required for Graduation		
COL 103	College Skills	3

WLD 222	Advanced Fabrication Welding	4
WLD 132	Inert Gas Welding Ferrous	4
WLD 154	Pipefitting and Welding	4
WLD 208	Advanced Pipe Welding	3
WLD 229	Inert Gas Welding Pipe II	2
Subtotal		20
Total Hours		68

* Students wishing to pursue an alternate secondary specialty should consult with their Academic Advisor.

Electives (Minimum of 12 Credits)

Students may use credits in the Industrial Technology curricula section to develop a third technical specialty or to enhance the primary and secondary specialties.

Graduation Plan

Fall Start

Course	Title	Hours
First Year		
Fall Semester		
COL 103	College Skills	3
WLD 102	Introduction to Welding	2
WLD 103	Print Reading I	1
WLD 108	Gas Metal Arc Welding I	4
WLD 142	Maintenance Welding	3

Hours 13

Spring Semester

ENG 165 or ENG 101	Professional Communications or English Composition I	3
WLD 105	Print Reading II	1
WLD 113	Arc Welding II	4
WLD 115	Arc Welding III	4
WLD 222	Advanced Fabrication Welding	4

Hours 16

Summer Semester

WLD 132	Inert Gas Welding Ferrous	4
WLD 154	Pipefitting and Welding	4
Elective Social/Behavioral Sciences (https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/)		3

Hours 11

Second Year

Fall Semester

WLD 136	Advanced Inert Gas Welding	2
WLD 208	Advanced Pipe Welding	3
WLD 229	Inert Gas Welding Pipe II	2
Lab Science/Mathematics (https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/)		3.0



Elective Humanities/Fine Arts (<https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/>) 3

Hours		13
Spring Semester		
MTT 120	Machine Tool Print Reading	3
MTT 121	Machine Tool Theory I	3
MTT 122	Machine Tool Practice I	4
MTT 143	Precision Measurements	2
Mathematical Requirement (https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/) ¹		3
Hours		15
Total Hours		68

¹ Select a Mathematical Requirement, or choose MAT 155 or MAT 170.

Spring Start

Course	Title	Hours
First Year		
Spring Semester		
COL 103	College Skills	3
WLD 102	Introduction to Welding	2
WLD 103	Print Reading I	1
WLD 108	Gas Metal Arc Welding I	4
WLD 142	Maintenance Welding	3
Hours		13
Summer Semester		
ENG 165 or ENG 101	Professional Communications or English Composition I	3
WLD 113	Arc Welding II	4
WLD 115	Arc Welding III	4
Hours		11
Fall Semester		
WLD 105	Print Reading II	1
WLD 132	Inert Gas Welding Ferrous	4
WLD 154	Pipefitting and Welding	4
WLD 222	Advanced Fabrication Welding	4
Elective Social/Behavioral Sciences (https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/)		3
Hours		16
Second Year		
Spring Semester		
WLD 136	Advanced Inert Gas Welding	2
WLD 208	Advanced Pipe Welding	3
WLD 229	Inert Gas Welding Pipe II	2
Elective Humanities/Fine Arts (https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/)		3
Lab Science/Mathematics (https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/)		3
Hours		13

Summer Semester

MTT 120	Machine Tool Print Reading	3
MTT 121	Machine Tool Theory I	3
MTT 122	Machine Tool Practice I	4
MTT 143	Precision Measurements	2
Mathematical Requirement (https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/) ¹		3
Hours		15
Total Hours		68

¹ Select a Mathematical Requirement, or choose MAT 155 or MAT 170.

Summer Start

Course	Title	Hours
First Year		
Summer Semester		
COL 103	College Skills	3
WLD 102	Introduction to Welding	2
WLD 108	Gas Metal Arc Welding I	4
WLD 142	Maintenance Welding	3
Hours		12
Fall Semester		
ENG 165 or ENG 101	Professional Communications or English Composition I	3
WLD 103	Print Reading I	1
WLD 113	Arc Welding II	4
WLD 115	Arc Welding III	4
Hours		12
Spring Semester		
WLD 105	Print Reading II	1
WLD 132	Inert Gas Welding Ferrous	4
WLD 154	Pipefitting and Welding	4
WLD 222	Advanced Fabrication Welding	4
Elective Behavioral Science (https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/)		3
Hours		16
Second Year		
Summer Semester		
WLD 136	Advanced Inert Gas Welding	2
WLD 208	Advanced Pipe Welding	3
WLD 229	Inert Gas Welding Pipe II	2
Elective Humanities/Fine Arts (https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/)		3
Hours		10
Spring Semester		
MTT 120	Machine Tool Print Reading	3
MTT 121	Machine Tool Theory I	3
MTT 122	Machine Tool Practice I	4
MTT 143	Precision Measurements	2

Lab Science/Mathematics (https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/)	3
Mathematical Requirement (https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/) ¹	3
Hours	18
Total Hours	68

¹ Select a Mathematical Requirement, or choose MAT 155 or MAT 170.

Application and Advising

If you are ready to start your education, there are a few simple steps involved in enrolling at Piedmont Technical College.

Get Started Today (<https://www.ptc.edu/admissions/new-students/>)

Advising Information

The following information provides a guide for advisors who are helping students enroll in this program.

Program Notes

Students may begin this program in any semester and may attend part-time or full-time.

WLD courses are offered during days and evenings.

Students who work alternating shifts are encouraged to enroll in the certificate program and to rotate between day and evening classes to fit his/her work schedule.

Students should be prepared to purchase first semester welding supplies costing approximately \$226.60. Supplies for each additional semester of welding will cost approximately \$150.

Program Purpose

Welding students may complete the Associate in Applied Science, General Technology to upgrade certificates into broader occupational degrees. The General Technology major allows students to select coursework for becoming a multi-skilled welder.

Program Student Learning Outcomes

For more information, review the learning outcomes for the corresponding certificates.

Learn More (<https://catalog.ptc.edu/academic-programs/industrial-technology/welding-curricula/#credentialstext>)