

Penn College of Technology Welding

First Semester	Credits
FYE 101 First Year Experience	1
WEL 102 Welding Blueprint/Layout	3
WEL 113 OXY-FUEL	2
WEL 114 SMAW I	2
WEL 115 OXY-FUEL II (LAB)	2
WEL 116 SMAW II (LAB)	2
SAF 110 Safety	2
MTH 180 Algebra/Trig I	3
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Second Semester

WEL 120 GMAW I	2
WEL 123 GTAW I	2
WEL 124 GMAW II (LAB)	2
WEL 129 GTAW II (LAB)	2
CSC124 Information, Technology, Society	3
ENL 111 English Composition	3
MTH 182 Algebra/Trig II	3
FIT Elective	1
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Third Semester

WEL 210 FCAW/SAW I	2
WEL 214 FCAW/SAW II (LAB)	2
WEL 230 SMAW III	2
WEL 234 SMAW V (LAB)	2
WEL 240 Basic CNC Programming	3
ENL 201 Technical & Professional Comm.	3
MTH 160 Elementary Statistics/computer	4
or	
MTH 230 Applied Calculus	3
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Harrisburg Area Community College Welding

Would not be required to take
WELD 101 Blueprint Reading
WELD 102 Oxy Fuel Welding & Cutting
WELD 103 Shielded Metal Arc Welding I
WELD 102 Oxy Fuel Welding & Cutting
WELD 103 Shielded Metal Arc Welding I
GTEC 101 Safety in the Workplace
MATH 103 College Algebra

WELD 120 Gas Metal Arc Welding I
WELD 130 Gas Tungsten Arc Welding I
WELD 120 Gas Metal Arc Welding I
WELD 130 Gas Tungsten Arc Welding I
ENGL 101 English Composition I
MATH 104 Trigonometry
Any HACC PE course

WELD 105 SMAW II/WELD 107 SMAW III
WELD 105 SMAW II/WELD 107 SMAW III
ENGL 104 Report/Technical Writing
MATH 203 Mathematical Statistics
MATH 115 Basic Calculus

Fourth Semester

WEL 213 GTAW III	2
WEL 219 GTAW IV (LAB)	2
WEL 233 SMAW/PIPE IV	2
WEL 239 SMAW/PIPE VI (LAB)	2
WEL 248 Robotics	3
MSC 106 Introduction to Metallurgy	4
QAL 237 NDT I	3
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WELD 240 Pipe Welding
WELD 240 Pipe Welding

Fifth Semester

CET 233 Statics	3
HIS 115 or HIS 125 HUM/CULT	3
PHS 115 College Physics I	4
QAL 301 NDT Quality Assurance	3
SPC 101 Fundamentals of Speech	3
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GTEC 201 Statics
HIST 101 World History I or HIST102 World History II
PHYS 201 General Physics I
COMM 101 Effective Speaking

Sixth Semester

CET 243 Strength of Materials	3
FIT Elective	1
MET 311 Computer Solutions	3
MET 321 Engineering Ethics & Legal Issues	3
Open Elective	3
WEL 301 Industrial Processes	3
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CVTE 208 Strength of Materials
Any HACC PE course
Any Transfer course

Seventh Semester

EET 302 Industrial Electronics/Applications	3
MET 495 Senior Seminar (Lecture)	1
HUM Elective	3
Social Science Elective	3
WEL 400 Fabrication of Alloys	3
WEL 410 Industrial Weld Design	3
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Any transfer Humanities course
Any transfer Social Science course

Eighth Semester

WEL 420 Welding Codes & Procedures	3
MET 496 Senior Seminar (Lab)	3
HUM/SOC.SCI./FOR.LANG./ART Elective	3
ART Elective	3
Open Elective	3
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Any course within the designators of Humanities, Social Science, Foreign Language or ART
Any transfer course