

# WELDING TECHNOLOGY - ASSOCIATE OF APPLIED SCIENCE

## 61 credits

The Associate of Applied Science in Welding Technology teaches students how to set up and use various types of welding equipment. Students also will learn how to weld pipe and plate in various positions: flat, horizontal, vertical, and overhead.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 61 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

(See also Welding Technology Certificate (<http://catalogs.nmsu.edu/grants/degree-certificate-programs/welding-technology/welding-technology-certificate/>))

Prefix	Title	Credits
<b>General Education</b>		
Select one course from four of the following six content areas for a total of 13 credits. <sup>1, 2</sup>		13
This degree requires courses from Areas I, IV, V and VI; students do not need to take additional courses to complete the General Education requirements.		
Area I: Communications		
ENGL 1110G	Composition I	
Area IV: Social/Behavioral Sciences		
PSYC 1110G	Introduction to Psychology	
or SOCI 1110G	Introduction to Sociology	
Area V: Humanities		
Select one from the following:		
HIST 1110G	United States History I	
or HIST 1120G	United States History II	
PHIL 1115G	Introduction to Philosophy	
PHIL 2110G	Introduction to Ethics	
Area VI: Creative and Fine Arts		
Select one from the following:		
ARTH 1115G	Orientation in Art	
THEA 1110G	Introduction to Theatre	
<i>General Education Elective</i>		
ENGL 2210G	Professional & Technical Communication	3
<b>Welding Core Requirements</b>		
WELD 100	Structural Welding I	6
WELD 110	Blueprint Reading (Welding)	3
WELD 120	Basic Metallurgy	3
WELD 125	Introduction to Pipe Welding	3
WELD 130	Introduction to GMAW MIG	3
WELD 140	Introduction to GTAW TIG	3
WELD 150	Pipe Welding II	3
WELD 170	Welded Fabrication	3
WELD 180	GTAW II	3
WELD 190	Welded Art	3
WELD 211	Welder Qualification	6

## Other Course Requirements

DRFT 114	Introduction to Solid Modeling	3
or DRFT 109	Computer Drafting Fundamentals	
MATH 1215	Intermediate Algebra	3
or OETS 118	Mathematics for Technicians	
<b>Total Credits</b>		<b>61</b>

## A Suggested Plan of Study

This roadmap assumes student placement in ENGL 1110G Composition I and demonstrates how to complete an Associate degree in two years.

The contents and order of this roadmap may vary depending on initial student placement in mathematics and English. It is only a suggested plan of study for students and is not intended as a contract. Course availability may vary from fall to spring semester and may be subject to modification or change. Students are advised to earn a C or better in courses to avoid repeating courses and may consider completing General Education courses in the summer.

### First Year

Fall		Credits
WELD 100	Structural Welding I	6
WELD 130	Introduction to GMAW MIG	3
WELD 140	Introduction to GTAW TIG	3
OETS 118		3
<b>Credits</b>		<b>15</b>

### Spring

WELD 110	Blueprint Reading (Welding)	3
WELD 180	GTAW II	3
ENGL 1110G	Composition I	4
PSYC 1110G	Introduction to Psychology	3
or SOCI 1110G	or Introduction to Sociology	
<b>Credits</b>		<b>13</b>

### Summer

DRFT 109	Computer Drafting Fundamentals	3
or DRFT 114	or Introduction to Solid Modeling	
<b>Credits</b>		<b>3</b>

### Second Year

Fall		Credits
WELD 120	Basic Metallurgy	3
WELD 125	Introduction to Pipe Welding	3
WELD 150	Pipe Welding II	3
ENGL 2210G	Professional & Technical Communication	3
WELD 170	Welded Fabrication	3
<b>Credits</b>		<b>15</b>

### Spring

WELD 211	Welder Qualification	6
WELD 190	Welded Art	3
AREA V: Humanities <sup>1</sup>		3
AREA VI: Creative and Fine Arts <sup>1</sup>		3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>61</b>

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See the General Education (<http://catalogs.nmsu.edu/grants/general-education/>) section for a full list.

**Program Manager:** Richard Gutierrez

**Phone:** (505) 287-6645

**Email:** [richardg@nmsu.edu](mailto:richardg@nmsu.edu)

**Office:** Room 121A, Martinez Hall, 2nd Floor