

# 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 (<https://catalogs.nmsu.edu/grants/degree-certificate-programs/welding-technology/welding-technology-certificate/>))

Prefix	Title	Credits
<b>General Education</b>		
<i>Select one course from four of the following six content areas for a total of 13 credits.<sup>1, 2</sup></i>		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 and Technical Communication	3
or COMM 1115G	Introduction to Communication	
<b>Welding Core Requirements</b>		
WELD 1120	Print Reading for Welders	3
WELD 1130	SMAW (Shielded Metal Arc Welding) I	6
WELD 1140	GMAW-Gas Metal Arc Welding I	3
WELD 1155	GTAW-Gas Tungsten Arc Welding I	3
WELD 1171	Layout and Fabrication	3
WELD 1191	Welded Art (prerequisite WELD 1110)	3
WELD 1220	Pipe Welding I	3
WELD 1310	Metallurgy	3
WELD 2155	GTAW-Gas Tungsten Arc Welding II	3
WELD 2220	Pipe Welding II	3

WELD 2290	Welder Qualifications	6
<i>Other Course Requirements</i>		
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
OETS 118	Mathematics for Technicians	3
WELD 1120	Print Reading for Welders	3
WELD 1130	SMAW (Shielded Metal Arc Welding) I	6
WELD 1155	GTAW-Gas Tungsten Arc Welding I	3
<b>Credits</b>		<b>15</b>

### Spring

ENGL 1110G	Composition I	4
PSYC 1110G	Introduction to Psychology	3
or SOCI 1110G	or Introduction to Sociology	
WELD 1140	GMAW-Gas Metal Arc Welding I	3
WELD 1310	Metallurgy	3
WELD 2155	GTAW-Gas Tungsten Arc Welding II	3
<b>Credits</b>		<b>16</b>

### Second Year

#### Fall

DRFT 109	Computer Drafting Fundamentals	3
or DRFT 114	or Introduction to Solid Modeling	
ENGL 2210G	Professional and Technical Communication	3
or COMM 1115G	or Introduction to Communication	
WELD 1191	Welded Art	3
WELD 1220	Pipe Welding I	3
AREA VI: Creative and Fine Arts <sup>1</sup>		3
<b>Credits</b>		<b>15</b>

#### Spring

WELD 1171	Layout and Fabrication	3
WELD 2220	Pipe Welding II	3
WELD 2290	Welder Qualifications	6
AREA V: Humanities <sup>1</sup>		3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>61</b>

<sup>1</sup> See the General Education (<https://catalogs.nmsu.edu/grants/general-education/>) section for a full list.

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2 Welding Technology - Associate of Applied Science

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