

# INDUSTRY, MANUFACTURING, AND CONSTRUCTION

## GUIDED PATHWAY: WELDING TECHNOLOGY

For more information, visit [www.dcccd.edu/Welding](http://www.dcccd.edu/Welding) and your academic advisor at Mountain View College.

This is an example course sequence for students interested in pursuing the Welding associate degree. It does not represent a contract, nor does it guarantee course availability. Following this pathway will help you earn an Associate of Applied Science (AAS) degree in Welding Technology <sup>ii</sup>. For official degree requirements, [click here](#).

The AAS degree program in Welding Technology is designed to prepare the student in the basic processes of oxyacetylene and arc welding plus many specialized welding applications as options to fit the specific needs of the student. In addition, instruction is offered in related support areas such as metallurgy, tooling, drafting, pattern layout and characteristics of materials. Thus, the program offers preparation for both entry-level jobs as well as welding inspectors. Gainful employment information for this degree can be found at [www.dcccd.edu/gainfulemp](http://www.dcccd.edu/gainfulemp). Courses that complete the Degree (D), the Gas Metal Arc Welding (GMAW) Certificate (GM), the Gas Tungsten Arc Welding (GTAW) Certificate (GT) and the Shielded Metal Arc Welding (SMAW) Certificate (SM) are noted below.

Visit [www.ntxccc.org/pathways](http://www.ntxccc.org/pathways) to view guided pathways created for students who complete an AAS degree and the options for transfer to complete a Bachelor of Applied Arts and Science. Speak with an academic advisor at your college to choose courses that will help you to transfer to a specific university.



**ONLY Offered at MVC**

### COLLEGE READINESS REQUIREMENTS

Enrolling in one or more courses may be necessary if assessment activities and previous academic experiences indicate a need for additional knowledge and skills:

#### READING & WRITING PLACEMENT

TSI READING MET:  YES  NO  
TSI WRITING MET:  YES  NO

#### MATH PLACEMENT

TSI MATH MET:  YES  NO

#### ENGLISH LANGUAGE PROFICIENCY

ENGLISH PROFICIENCY:  YES  NO

IF TSI OR ENGLISH LANGUAGE PROFICIENCY NOT MET, INSERT COURSE(S) NEEDED

DREA / DWRI / DIRW (CIRCLE ONE)

DMAT \_\_\_\_\_

ESOL \_\_\_\_\_

OTHER: \_\_\_\_\_

OTHER: \_\_\_\_\_

OTHER: \_\_\_\_\_

*Exemptions/waivers may exist. Speak with an academic advisor regarding placement in college readiness courses and your ability to enroll in core academic coursework.*

### SEMESTER-BY-SEMESTER MAP FOR FULL-TIME STUDENTS <sup>iii</sup> ALL PLANS CAN BE MODIFIED TO FIT THE NEEDS OF PART-TIME STUDENTS

D	GM	GT	SM	SEMESTER 1	ACTION ITEMS
◆				<b>WLDG 1200</b> – Introduction to Welding	<input type="checkbox"/> Meet with your advisor to confirm academic and career goals before the end of the semester. <input type="checkbox"/> Meet with a career advisor or coach to research your career options and opportunities for job shadowing.
◆		◆		<b>WLDG 1425</b> – Introduction to Oxy-fuel Welding and Cutting	
◆	◆		◆	<b>WLDG 1428</b> – Introduction to Shielded Metal Arc Welding (SMAW)	
◆				<b>ENGL 1301</b> – Composition I <sup>iv</sup> (core course)	
<b>TOTAL SEMESTER CREDIT HOURS: 13</b>					
D	GM	GT	SM	SEMESTER 2	ACTION ITEMS
◆				<b>WLDG 1337</b> – Introduction to Welding Metallurgy	<input type="checkbox"/> Meet with your advisor to request an official program of study audit, confirm or update your academic and career path and program of study.
◆			◆	<b>WLDG 1457</b> – Intermediate Shielded Metal Arc Welding (SMAW)	
◆	◆			<b>WLDG 1430</b> – Introduction to Gas Metal Arc Welding (GMAW)	
◆				<b>SPCH 1311</b> – Introduction to Speech Communication (core course)	
◆				<b>Humanities/Fine Arts Elective</b> <sup>v</sup> (core course)	
<b>TOTAL SEMESTER CREDIT HOURS: 17</b>					
D	GM	GT	SM	SEMESTER 3	ACTION ITEMS
◆				<b>PSYC 2301</b> – General Psychology (core course)	<input type="checkbox"/> Meet with a career advisor or coach for assistance in preparing for job search. <input type="checkbox"/> Meet with a faculty or career advisor regarding placement for the Cooperative course, if needed.
◆		◆		<b>WLDG 1434</b> – Introduction to Gas Tungsten Arc (GTAW) Welding	
◆				<b>DFTG 1425</b> – Blue Print Reading and Sketching	
◆			◆	<b>WLDG 2443</b> – Advanced Shielded Metal Arc Welding (SMAW)	
<b>TOTAL SEMESTER CREDIT HOURS: 15</b>					
D	GM	GT	SM	SEMESTER 4	ACTION ITEMS
◆				<b>WLDG 1480</b> – Cooperative Education-Welding Technology/Welder <u>OR</u> <b>NDTE 2411</b> - Preparation for Certified Welding Inspector Exam	<input type="checkbox"/> After reviewing your degree plan and program of study, apply for graduation. <ul style="list-style-type: none"> <li><input type="checkbox"/> Meet with your advisor to apply for the Welding Technology AAS, the Gas Metal Arc Welding Certificate, the Gas Tungsten Arc Welding Certificate and the Shielded Metal Arc Welding Certificate.</li> <li><input type="checkbox"/> Sign up for commencement.</li> </ul> <input type="checkbox"/> Join the <a href="#">Alumni Network!</a>
◆				<b>MATH 1332</b> – Contemporary Mathematics (Quantitative Reasoning) <sup>iv</sup> (core course)	
◆	◆			<b>WLDG 2447</b> – Advanced Gas Metal Arc Welding (GMAW)	
◆		◆		<b>WLDG 2451</b> – Advanced Gas Tungsten Arc Welding (GTAW)	
	◆	◆	◆	<b>WLDG 1471</b> – Welding Qualifications <sup>vi</sup>	
<b>TOTAL SEMESTER CREDIT HOURS: 15</b>					
<b>AAS DEGREE MINIMUM: 60 SEMESTER CREDIT HOURS   PATHWAY TOTAL: 60 SEMESTER CREDIT HOURS</b>					

<sup>i</sup> Degree plans may change in later catalogs. You may use this pathway if you entered one of the seven colleges on or before this date.

<sup>ii</sup> You must earn at least 25% of the credit hours (15 hours) required for graduation through instruction at Mountain View College.

<sup>iii</sup> This is not an official degree plan. For official degree requirements, [click here](#).

<sup>iv</sup> You must earn a grade of "C" or better in English 1301 and the selected college-level mathematics course.

<sup>v</sup> There are several options to fulfill this requirement. See your academic advisor for a specific list.

<sup>vi</sup> Required course for Welding certificates. Certificates are offered at Eastfield College and Mountain View College.

