

**DEGREE MAP**

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites, and presumes a fall start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

**Program Name:** Welding Technology-Certificate

**Location(s) Offered:**

Douglas Campus and Sierra Vista Campus

**Learning Outcomes:** *Students who successfully complete this program will be able to do the following:*

1. Demonstrate appropriate safe work habits when operating oxyfuel and electric arc welding equipment.
2. Use proper terminology associated with welding to communicate effectively with co-workers, supervisors, customers, inspectors, engineers, and vendors.
3. Successfully perform basic welding operations using appropriate processes on various metals and in various situations with an emphasis on the shielded metal arc welding (SMAW) process.
4. Demonstrate the ability to interpret blueprints and welding symbols in order to fabricate components.

**Course or program prerequisite(s) not included in the degree:**

CIS 179 Applied Technical Writing requires appropriate English placement score (or see advisor), RDG 122 Reading Critically or exemption, and CIS 116 Computer Essentials or CIS 120 Introduction to Information Systems.  
MAT 132 Applied Mathematics requires appropriate mathematics placement score (or see advisor).

**Program Reviewed:** Feb 22, 2016

**Key:**

*IW=Intensive Writing*  
*F2F=Face-to-Face Instruction*  
*ITV=Instructional Television*  
*VC=Virtual Campus/Online*

<i>Requirements</i>	<i>Course(s) Recommended</i>	<i>Delivery Method</i>	<i>Credits</i>
<b>First Semester (Fall):</b>			
Core Curriculum	DFT 150 Fundamentals of AutoCAD	F2F	3
Core Curriculum	MAT 132 Applied Mathematics	F2F	3
Core Curriculum	WLD 105 Oxyacetylene Welding	F2F	3
Core Curriculum	WLD 106 Basic Shield Metal Arc Welding	F2F	3
Core Curriculum	WLD 128 Gas Metal Arc Welding	F2F	3
Core Curriculum	WLD 203 Blueprint Interpretation	F2F	3
<b>Second Semester (Spring):</b>			
Core Curriculum	CIS 179 Applied Technical Writing	F2F,VC	3
Core Curriculum	GTC 105 Manufacturing Materials and Processes	F2F	3
Core Curriculum	WLD 209 Gas Tungsten Arc Welding	F2F	3
Core Curriculum	WLD 210 Advanced Shield Metal Arc Welding	F2F	3
<b>Third Semester (Fall):</b>			
<b>Fourth Semester (Spring):</b>			

**Total credits required:** 30

**Notes:**