



AAS in Welding to  
Bachelor of Applied Arts and Sciences in  
Manufacturing and Industrial Management  
Safety Management Concentration<sup>T</sup>  
**Guided Pathway**  
Effective for the 2019-2020 Catalog



### First Year – Central Texas College

FIRST SEMESTER	SECOND SEMESTER
WLDG 1323 Welding Safety Tools and Equipment	WLDG 1457 Intermediate Shielded Metal Arc Welding (SMAW)
WLDG 1428 Introduction to Shielded Metal Arc Welding (SMAW)	WLDG 2443 Advanced Shielded Metal Arc Welding (SMAW)
WLDG 1425 Introduction to Oxy-Fuel Welding and Cutting	WLDG 1313 Introduction to Blueprint Reading for Welders
<sup>C</sup> MATH 1332 Contemporary Mathematics	<sup>C</sup> ENGL 1301 Composition I

Total Semester Hours: 14

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### Second Year – Central Texas College

It's best to apply to Tarleton State University a full semester before you plan to transfer.

FIRST SEMESTER	SECOND SEMESTER
WLDG 1430 Introduction to Gas Metal Arc (GMAW) Welding	WLDG 2453 Advanced Pipe Welding
WLDG 1434 Introduction to Gas Tungsten Arc (GTAW) Welding	WLDG 2435 Advanced Layout and Fabrication or WLDG 2488 Internship
WLDG 1435 Introduction to Pipe Welding	WLDG 1312 Introduction to Flux Core Arc Welding (FCAW)
<sup>C</sup> GOVT 2305 Federal Government	<sup>C</sup> ELEC Humanities Selection
	<sup>C</sup> SPCH 1315 or 1321

Total Semester Hours: 15

Total Semester Hours: 17

### AAS: Welding

You will need to apply for the associate's degree at your community college. Contact your advisor there for more information.

These courses may be completed at CTC (if offered) or TSU-Stephenville Campus	
<sup>C</sup> GOVT 2306 – Texas Government	<sup>C</sup> ENGL 1302 – Composition II
<sup>C</sup> HIST 1301 – United States History I	<sup>C*</sup> Life and Physical Science Core Elective (4 credits)
MATH 1316 – Plane Trigonometry or MATH 1342 – Elementary Statistical Methods	<sup>C</sup> HIST1302 – United States History II
<sup>C*</sup> Creative Arts Core Elective	<sup>C</sup> GOVT 2305 – Federal Government
<sup>C*</sup> Life and Physical Science Core Elective (4 credits)	<sup>C*</sup> Any Core Elective (1 credit minimum)

Total Semester Hours: 16

Total Semester Hours: 14

### Third Year – Tarleton State University

FIRST SEMESTER	SECOND SEMESTER
Advanced ENGT Elective	ENGT 4320 Occupational Safety and Health
ENGT 3318 Research & Reporting for Technologists	ENGT 3395 Project Management
ENGT 3326 Ergonomics and Work Methods (Spring Only)	ENGT 3360 Safety Management
ENGT 3320 Industrial Safety	Advanced ENGT Elective

Total Semester Hours: 12

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### Fourth Year - Tarleton State University

FIRST SEMESTER
ENGT 3375 Continuous Improvement
Advanced Elective
Advanced Elective
Advanced Elective
Advanced Elective

Total Semester Hours: 15

Total Degree Hours: 129

**This is not an official degree plan. Check with an advisor; degree plans may change in later catalogs.**

Part-time students may also follow this sequence. Developmental coursework may be required.

\* You may take a different course to meet this requirement. A specific list is available from your advisor.

<sup>C</sup> This course counts for the Core Curriculum at any public college or university in Texas.

<sup>T</sup> Degree availability varies by campus; consult [www.tarleton.edu](http://www.tarleton.edu) for more information.

For questions about the university portion of this pathway,  
contact the Engineering Technology Department at (254)968-9010 or [Engineering.Technology@tarleton.edu](mailto:Engineering.Technology@tarleton.edu).