



AAS – Welding to  
BAAS-Manufacturing and Industrial Management  
Industrial Management Concentration<sup>T</sup>  
**Guided Pathway**  
2019-2020



### First Year - Grayson College

FIRST SEMESTER	SECOND SEMESTER
WLDG 1421 Introduction to Welding Fundamentals	WLDG 1457 Inter. Shielded Metal Arc Weld. (SMAW)
WLDG 1428 Intro. to Shielded Metal Arc Weld. (SMAW)	WLDG 1430 Intro. to Gas Metal Arc Welding (MIG)
DFTG 1309 Basic Computer Aided Drafting	<sup>C</sup> HUMA 1301 Introduction to the Humanities *
<sup>C</sup> MATH 1332 Contemporary Math	BUSG 2309 Small Business Management

Total Semester Hours: 14

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### Second Year Grayson College

Its best to apply to Tarleton State University a full semester before you plan to transfer.

FIRST SEMESTER	SECOND SEMESTER
WLDG 1434 Intro. to Gas Tungsten Arc Welding (TIG)	WLDG 2406 Intermediate Pipe Welding
DFTG 1425 Blueprint Reading	WLDG 2451 Advanced Gas Tungsten Arc Welding (TIG)
WLDG 2447 Advanced Gas Metal Arc Welding (MIG)	<sup>C</sup> SPCH 1321 Business and Professional Speaking
<sup>C</sup> ENGL 1301 Composition I	ELPT 1311 Basic Electrical Theory
<sup>C</sup> PSYC 2301 General Psychology *	Comprehensive Capstone Req

Total Semester Hours: 18

Total Semester Hours: 14

### 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 Grayson College (if offered) or TSU-Stephenville Campus	
<sup>C</sup> HIST1301 United States History I	<sup>C*</sup> Creative Arts Core Elective (050)
<sup>C*</sup> Life and Physical Science Core Elective (4 credits)	<sup>C</sup> HIST1302 United States History II
<sup>C*</sup> Life and Physical Science Core Elective (4 credits)	<sup>C</sup> ENGL 1302 Composition II
<sup>C*</sup> Any Core Elective (minimum 1 credit)	<sup>C</sup> GOVT 2306 Texas Government
MATH 1316 Plane Trigonometry or MATH 1342 Elementary Statistics	<sup>C</sup> GOVT 2305 Federal Government

Total Semester Hours: 15

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### Third Year – Tarleton State University

FIRST SEMESTER	SECOND SEMESTER
Advanced ENGT Elective	ENGT 4336 Production Planning
ENGT 3318 Research & Reporting for Technologists	ENGT 3395 Project Management
ENGT 3375 Continuous Improvement	ENGT 4346 Manufacturing Management
ENGT 3386 Quality Management	Advanced ENGT Elective

Total Semester Hours: 12

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### Fourth Year - Tarleton State University

FIRST SEMESTER
ENGT 4347 Metrics and Measurement (Fall Only)
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.

() Course numbers shown in parentheses are equivalent to these courses at TSU.

\*Students can choose a different specialization and should speak with an advisor about their options. Examples of specializations include, but are not limited to: English as a Second Language (ESL), Leadership Development, Logistical Operations, Aviation Operations, Digital Language Curation, and Computational Logistics.

<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 degree plan,  
Contact the Department of Engineering Technology at (254) 968-9014 or [engineering.technology@tarleton.edu](mailto:engineering.technology@tarleton.edu).