



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



### First Year - Hill College

FIRST SEMESTER	SECOND SEMESTER
WLDG 1428 Introduction To Shielded Metal Arc Welding (SMAW)	WLDG 1435 Intro. to Pipe Welding
WLDG 1413 Introduction to Blueprint Reading for Welders	WLDG 1434 Intro to Gas Tungsten Arc Welding (GTAW)
WLDG 1457 Intermediate Shielded Metal Arc Welding (SMAW)	WLDG 1430 Intro to Gas Metal Arc Welding (GMAW)
	WLDG 1327 Welding Codes
Total Semester Hours: 12	Total Semester Hours: 15
11-WEEK SUMMER SEMESTER	
* WLDG ELECTIVE	
WLDG 2413 Welding using Multiple Processes	
Total Semester Hours: 6	

### Second Year – Hill College

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

FIRST SEMESTER	SECOND SEMESTER
WLDG 1323 Welding Safety, Tools and Equipment	BCIS 1305 Business Computer Applications
WLDG 2451 Advanced Gas Tungsten Arc Welding (GTAW)	WLDG 2406 Intermediate Pipe Welding
<sup>C</sup> ENGL 1301 Composition I	<sup>C</sup> PSYC 2301 General Psychology
<sup>C</sup> *MATH College Level Mathematics Elective	<sup>C</sup> *ELECTIVE Language, Philosophy and Culture
Total Semester Hours: 13	Total Semester Hours: 13

### 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 taken at Hill College (if offered) or TSU-Stephenville Campus	
MATH 1316 Plane Trigonometry OR MATH 1342 Statistics	<sup>*C</sup> Life & Physical Science Core Elective (4 credits)
<sup>C</sup> ENGL 1302 – Composition II	<sup>*C</sup> Creative Arts Core Elective
<sup>*C</sup> Life & Physical Science Core Elective (4 credits)	<sup>C</sup> GOVT 2306 Texas Government
<sup>*C</sup> Communication Core Elective	<sup>C</sup> GOVT 2305 Federal Government
<sup>C</sup> HIST1301 United States History I	<sup>C</sup> HIST 1302 United States History II
<sup>*C</sup> Any Core Course (minimum 1 credit)	
Total Semester Hours: 17	Total Semester Hours: 16

### Third Year – Tarleton State University

FIRST SEMESTER	SECOND SEMESTER
ENGT 3318 Research & Reporting for Technologists	ENGT 4336 Production Planning
ENGT 3375 Continuous Improvement	ENGT 3395 Project Management
ENGT 3386 Quality Management	Advanced ENGT Course
Advanced Elective Course	Advanced Elective Course
Total Semester Hours: 12	Total Semester Hours: 12

### Fourth Year - Tarleton State University

FIRST SEMESTER
ENGT 4346 Manufacturing Management
Advanced ENGT Course
Advanced Elective Course
Advanced Elective Course
ENGT 4347 Metrics and Measurement (Fall Only)

Total Semester Hours: 15

Total: 131

**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 guided pathway,  
Contact the Engineering Technology Department at (254)968-9010 or [Engineering.Technology@tarleton.edu](mailto:Engineering.Technology@tarleton.edu).