



**AAS in Welding to
BAAS in Manufacturing and Industrial Management
Industrial Management Concentration^T
Guided Pathway
2020-2021 Catalog**



First Year – NCTC

FIRST SEMESTER	SECOND SEMESTER
WLDG 1313 – Intro to Blueprint Reading for Welders	WLDG 2447 – Adv Gas Metal Arc Wldg (GMAW)
WLDG 1407 – Intro to Welding Multiple Processes	WLDG 1435 – Intro to Pipe Welding
WLDG 2413 – Intermediate Welding Multiple Processes	TECM 1301 – Industrial Mathematics
WLDG 1427 – Welding Codes & Standards	OSHT 1320 – Energy Industrial Safety
THIRD SEMESTER	
WLDG 2352 – Advanced Flux Cored Arc Welding [†]	

Total Semester Hours: 18

Total Semester Hours: 14

Second Year – NCTC

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

FIRST SEMESTER	SECOND SEMESTER
WLDG 2432 – Welding Automation	BMGT 2309 – Leadership
WLDG 1317 – Introduction to Layout & Fabrication	^C MATH 1332 – Contemporary Mathematics*
^C ENGL 1301 – Composition I	^C SPCH 1311 – Introduction to Speech Communication*
^C GOVT 2306 – Texas Government*	^C ARTS 1301 – Art Appreciation
	WLDG 2380 – Co. Ed.- Welding Technology

Total Semester Hours: 13

Total Semester Hours: 15

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 NCTC (if offered) or TSU	
^C Any Core Course (minimum 1 credit)	^C Life & Physical Science Core Elective (4 credits)
MATH 1316 Plane Trigonometry OR MATH 1342 Statistics	^C Social & Behavioral Science Core Elective
^C ENGL 1302 – Composition II	^C HIST 1302 United States History II
^C Life & Physical Science Core Elective (4 credits)	^C Language, Philosophy and Culture Core Elective
^C HIST 1301 United States History I	^C GOVT 2305 Federal Government

Total Semester Hours: 14

Total Semester Hours: 16

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

Total Semester Hours: 12

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.

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

^C This course counts for the Core Curriculum at any public college or university in Texas. Sometimes, taking a specific course to meet a Core requirement will also fulfill other requirement for your degree. If this course meets more than one requirement it is listed as the correct option (with no asterisk).

^T Degree availability varies by campus; consult www.tarleton.edu for more information.