



**AAS Welding - Foundry / Metalsmithing Track (Metalsmithing focus) to
Bachelor of Applied Arts and Sciences
Manufacturing and Industrial Management
Industrial Management Concentration[†]
Guided Pathway
2019-2020 Catalog**



First Year - Collin College

FIRST SEMESTER	SECOND SEMESTER
^C MATH 1332 – Contemporary Mathematics (Quantitative Reasoning)* (020)	^C SPCH 1321 – Introduction to Speech Communication* (090)
WLDG 1428 – Introduction to Shielded Metal Arc Welding (SMAW)	^C ENGL 1301 – Composition I (010)
WLDG 1434 – Introduction to Gas Tungsten Arc Welding (GTAW)	WLDG 1401 – Metalsmithing
WLDG 1530 – Introduction to Gas Metal Arc Welding (GMAW)	WLDG 1405 – Art Metals

Total Semester Hours: 16

Total Semester Hours: 14

Second Year - Collin College

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

FIRST SEMESTER	SECOND SEMESTER
^C ARTS 1301 – Art Appreciation* (050)	^C PSYC 2301 – General Psychology* (080)
WLDG 2443 – Advanced Shielded Metal Arc Welding (SMAW)	WLDG 2471 – Advanced Foundry Practices (Capstone) OR
WLDG 1471 – Introduction to Foundry Practices	WLDG 2480 – Cooperative Education-Welding Technology / Welder
WLDG 1408 – Metal Sculpture	WLDG 1425 – Introduction to Oxy-Fuel Welding and Cutting
	WLDG 2451 – Advanced Gas Tungsten Arc Welding (GTAW)

Total Semester Hours: 15

Total Semester Hours: 15

AAS: Foundry / Metalsmithing Track (Metalsmithing focus)

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 Collin College (if offered) or TSU-Stephenville Campus

^{C*} Life and Physical Science Core Elective (4 credits)	^C GOVT 2306 Texas Government
^C ENGL 1302 – Composition II	^C GOVT 2305 Federal Government
^C HIST1301 United States History I	^C HIST 1302 United States History II
^{C*} Any Core Course (1-3 credits)	^{C*} Language, Philosophy, and Culture Core Elective
MATH 1316 Plane Trigonometry OR MATH 1342 Statistics	^{C*} Life and Physical Science Core Elective (4 credits)

Total Hours: 30-32

Third Year – Tarleton State University

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

Total Semester Hours: 15

Total Semester Hours: 12

Fourth Year - Tarleton State University

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

Total Semester Hours: 12

Total Degree Hours: 129-131

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.

^C This course counts for the Core Curriculum at any public college or university in Texas.

[†] Degree availability varies by campus; consult www.tarleton.edu for more information.

***Collin Options:**

Mathematics/Life & Physical Sciences –MATH 1314, 1414, 1316, 1342, 2305, 2318, 2320, 2412, 2413, 2414, 2415, 1324, 1325, 1332, 1350, 1351, BIOL 1406, 1407, 1414, 1415, 2401, 2402, 2406, 2416, 2421, 1408, 1409, 2404, 2420, CHEM 1411, 1412, 2423, 2425, 1405, GEOL 1401, ENVR 1401, 1402, GEOL 1403, 1404, PHYS 1401, 1402, 2425, 2426, 1402, 1445, 1447, 1403, 1404, 1405, 1410, 1415, 1417

Humanities/Fine Arts - choose one from: ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, HIST 2311, 2312, 2321, 2322, HUMA 1301, PHIL 1301, 1304, 2303, 2306, 2307, 2321, ARTS 1301, 1303, 1304, 1313, DANC 2303, DRAM 1310, 2361, 2362, 2366, MUSI 1306, 1307, 1310

Social and Behavioral Sciences – choose one from: ANTH 2302, 2346, 2351, ECON 2301, 2302, PSYC 2301, SOCI 1301, 1306, GOVT 2305, 2306, HIST 1301, 1302, 2301

Speech – choose one from: SPCH 1311, 1315, 1321