



STEM



**Associate of Applied Science in
Engineering Technology – Electronics Technology to
BAAS in Manufacturing and Industrial Management
Industrial Management Concentration^T
Guided Pathway
Effective for the 2019-2020 Catalog¹**



First Year Courses – Richland College²

FIRST SEMESTER	SECOND SEMESTER
DFTG 1309 – Basic Computer-Aided Drafting	ENGL 1301 – Composition I (010)
MCHN 1300 – Beginning Machine Shop	INTC 1307 – Instrumentation Test Equipment
CETT 1403 – DC Circuits	CETT 1405 – AC Circuits
TECM 1341 – Technical Algebra <u>OR</u> MATH 1314 – College Algebra (020) ³	CETT 1425 – Digital Fundamentals
	TECM 1317 – Technical Trigonometry <u>OR</u> MATH 1316 – Plane Trigonometry (020) ⁴

Total Semester Hours: 13

Total Semester Hours: 17

Second Year Courses – Richland College

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

FIRST SEMESTER	SECOND SEMESTER
INMT 1417 – Industrial Automation <u>OR</u> COSC 1436 – Programming Fundamentals I	TECM 1349 – Technical Math Applications
CETT 1429 – Solid State Devices	Social/Behavioral Science Elective* (080)
HYDR 1345 – Hydraulics and Pneumatics	Humanities/Fine Arts Elective* (040 OR 050)
PHYS 1401 – College Physics I (030) <u>OR</u> PHYS 1405 – Elementary Physics I (030)	CETT 1357 – Linear Integrated Circuits <u>OR</u> CETT 2337 – Microcomputer Control <u>OR</u> ENTC 2380 – Cooperative Education–Engineering Technology, General
SPCH 1311 – Introduction to Speech Communication (090) <u>OR</u> SPCH 1315 – Public Speaking (090)	

Total Semester Hours: 18

Total Semester Hours: 12

AAS: Engineering Technology – Electronics Technology (60 hours)

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 Richland College (if offered) or TSU-Stephenville Campus

HIST 1302 – United States History II (060)	GOVT 2306 – Texas Government (070)
C Language, Philosophy and Culture Core Elective (040) OR Creative Arts Core Elective (050)	ENGL 1302 – Composition II (010)
C Any Core Elective (1-3 credits) (090)	GOVT 2305 – Federal Government (070)
HIST 1301 – United States History I (060)	C Life and Physical Science Core Elective (030) (4 credits)

Total Hours: 23-25

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: 122-124

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.

1 You may use this pathway if you entered one of the seven colleges on or before this date.

2 Students must earn at least 25% of the credit hours (15 hours) required for graduation through instruction by one of the seven colleges of the DCCCD awarding the degree.

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

* There are several options to fulfill this requirement. See your academic advisor for a specific list.

You must earn a grade of "C" or better in English 1301 and the selected college-level mathematics and science courses.

For questions about the university portion of this guided pathway,

contact the Engineering Technology Department at 254-968-9014 or engineering.technology@tarleton.edu.



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() Course numbers shown in parentheses are equivalent to these courses at Tarleton State University.

Approved: 2019-2020 Guided Pathway

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

³ TSU requires MATH 1314

⁴ TSU requires MATH 1316

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