



**Associate of Applied Science in  
Advanced Manufacturing/Mechatronics Technology to  
BAAS in Manufacturing and Industrial Management  
Safety Management Concentration<sup>T</sup>  
Guided Pathway  
Effective for the 2019-2020 Catalog<sup>1</sup>**



**First Year Courses – Eastfield College<sup>2</sup>**

FIRST SEMESTER	SECOND SEMESTER
<b>CETT 1403</b> – DC Circuits	<b>MFGT 1404</b> – Automated Manufacturing
<b>ELMT 1405</b> – Basic Fluid Power	<b>CETT 1405</b> – AC Circuits
<b>CENGL 1301</b> – Composition I (010)	<b>CETT 1429</b> – Solid State Devices
<b>C<sup>1</sup>MATH 1314</b> – College Algebra <b>OR</b> <b>C<sup>1</sup>MATH 1332</b> – Contemporary Mathematics (020)	<b>C<sup>1</sup>SPCH 1311</b> – Introduction to Speech Communication <b>OR</b> <b>C<sup>1</sup>SPCH 1315</b> – Public Speaking (090)
<b>EEET 1104</b> – Electronic Soldering <b>OR</b> <b>EEET 1191</b> – Special Topics in Electrical, Electronic and Communications Engineering Technology/Technician	

**Total Semester Hours: 15**

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**Second Year Courses – Eastfield College**

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

FIRST SEMESTER	SECOND SEMESTER
<b>MFGT 1406</b> – Mechanical Principles in Automated Manufacturing	<b>CETT 1441</b> – Solid State Circuits <b>OR</b> <b>CETT 2480</b> – Cooperative Education-Computer Engineering Technology/Technician
<b>CETT 1425</b> – Digital Fundamentals	<b>Technical Elective<sup>+</sup></b>
<b>ELPT 2419</b> – Programmable Logic Controllers I	<b>MFGT 2459</b> – Industrial Automation II
<b>C<sup>1</sup>Humanities/Fine Arts Elective<sup>*</sup></b> (040 OR 050)	<b>C<sup>1</sup>Social and Behavioral Science Elective<sup>*</sup></b> (080)

**Total Semester Hours: 15**

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**AAS: Advanced Manufacturing/Mechatronics 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 DCCCD (if offered) or TSU-Stephenville Campus	
<b>C<sup>1</sup>Life and Physical Science Core Elective</b> (030) (4 credits)	<b>C<sup>1</sup>Life and Physical Science Core Elective</b> (030) (4 credits)
<b>C<sup>1</sup>Language, Philosophy and Culture Core Elective OR Creative Arts Core Elective</b> (050)	<b>C<sup>1</sup>ENGL 1302</b> – Composition II (010)
<b>C<sup>1</sup>Any Core Course</b> (090) (1-3 credits)	<b>C<sup>1</sup>GOVT 2306</b> – Texas Government
<b>C<sup>1</sup>HIST 1301</b> – United States History I	<b>C<sup>1</sup>HIST 1302</b> – United States History II
<b>C<sup>1</sup>GOVT 2305</b> – Federal Government	<b>MATH 1316</b> – Plane Trigonometry <b>OR</b> <b>Math 1342</b> – Elementary Statistics

**Total Semester Hours: 30-32**

**Third Year – Tarleton State University**

FIRST SEMESTER	SECOND SEMESTER
<b>ENGT 3318</b> Research & Reporting for Technologists	<b>ENGT 4320</b> Occupational Safety and Health
<b>ENGT 3320</b> Industrial Safety	<b>ENGT 3395</b> Project Management
<b>ENGT 3360</b> Safety Management	<b>ENGT 3326</b> Ergonomics and Work Methods (Spring Only)
<b>Advanced Elective Course</b>	<b>Advanced ENGT Course</b>

**Total Semester Hours: 12**

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**Fourth Year - Tarleton State University**

FIRST SEMESTER
<b>ENGT 3375</b> Continuous Improvement
<b>Advanced ENGT Course</b>
<b>Advanced Elective Course</b>
<b>Advanced Elective Course</b>
<b>Advanced Elective Course</b>

**Total Semester Hours: 15**

**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.

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

<sup>2</sup> Students must earn at least 26% of the credit hours (15 hours) required for graduation through instruction by one of the seven colleges of the DCCCD awarding the degree.

<sup>3</sup> This course counts for the Core Curriculum at any public college or university in Texas.

<sup>4</sup> There are several options to fulfill this requirement. See your academic advisor for a specific list.

<sup>5</sup> Technical elective must be selected from the following: CETT 1407, CETT 1449, CETT 2480, CETT 2481, CPMT 1403, EEET 1491, HART 1407, MCHN 1454, WLDG 1471. Only one cooperative education course can be taken in any one semester.

The Advanced Manufacturing/Mechatronics Technology Certificate is offered at Eastfield College and Mountain View College.

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

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

Approved: 2019-2020 Guided Pathway

<sup>\*</sup> Degree availability varies by campus; consult [www.tarleton.edu](http://www.tarleton.edu) for more information.