

**Associate of Applied Science in  
Advanced Manufacturing/Mechatronics Technology to  
BAAS in Manufacturing and Industrial Management  
Industrial Management Concentration  
Guided Pathway DCCCD/Dallas ISD Early College High Schools  
Effective for the 2018-2019 Catalog**

**First Year Courses – Eastfield College**

FIRST SEMESTER	SECOND SEMESTER
<b>ELMT 1405</b> Basic Fluid Power	<sup>c</sup> Creative Arts Elective* <sup>Δ</sup> (050)
<b>CETT 1403</b> DC Circuits	<b>CETT 1429</b> Solid State Devices
<sup>c</sup> <b>SPCH 1311</b> Intro to Speech Communications* <sup>Δ</sup> (090)	<b>MATH 1316</b> Plane Trigonometry <sup>Δ</sup>
<b>CETT 1405</b> AC Circuits	<sup>c</sup> <b>PSYC 2301</b> General Psychology* <sup>Δ</sup> (080)
<sup>c</sup> <b>MATH 1314</b> College Algebra* <sup>Δ</sup> (020)	<b>MFGT 1404</b> Automated Manufacturing

Total Semester Hours: 18

Total Semester Hours: 17

**Second Year Courses – Eastfield College**

It's best to apply to [Tarleton State University](http://tarletonstate.edu) a full semester before you plan to transfer.

FIRST SEMESTER	SECOND SEMESTER
<sup>c</sup> <b>ENGL 1301</b> – Composition I (010)	<b>ENGL 1302</b> – Composition II <sup>Δ</sup> (010)
<b>CETT 1425</b> – Digital Fundamentals	<b>CETT 1449</b> – Digital Systems
<b>MFGT 1406</b> – Mechanical Principles in Automated Manufacturing	<b>MFGT 2459</b> – Industrial Automation II
<b>ELPT 2419</b> – Programmable Logic Controllers I	<b>CETT 1441</b> – Solid State Circuits
<b>EECT 1191</b> – Special Topics in Electrical, Electronic and Comms Engineering Technology/Technician* <sup>Δ</sup>	

Total Semester Hours: 16

Total Semester Hours: 15

**AAS: Advanced Manufacturing/Mechatronics Technology (66 hours)**

You will need to apply for the associate's degree at your community college. Contact your advisor there for more information.

**Third Year – Tarleton State University**

FIRST SEMESTER	SECOND SEMESTER
<b>ENGT 3375</b> – Continuous Improvement	<b>ENGT 3386</b> – Quality Management
<b>ENGT 3318</b> – Research and Reporting For Technologists	<b>ENGT 3395</b> – Project Management
<sup>c</sup> Institutional Option (090)	Advanced ENGT Course
<sup>c</sup> Language, Philosophy & Culture Core Elective(040)	<sup>c</sup> *Life and Physical Science Core Elective (030)
<sup>c</sup> *Life and Physical Science Core Elective(030)	<b>ENGT 4336</b> – Production Planning
SUMMER	
Advanced ENGT Course	<sup>c</sup> <b>GOVT 2306</b> – Texas Government

**Fourth Year - Tarleton State University**

FIRST SEMESTER	SECOND SEMESTER
<b>ENGT 4346</b> – Manufacturing Management	
Advanced Elective Course	Advanced Elective Course
Advanced Elective Course	Advanced Elective Course
<sup>c</sup> <b>HIST1301</b> – United States History I	<sup>c</sup> <b>GOVT 2305</b> – Federal Government
<b>ENGT 4347</b> – Metrics and Measurements (Fall Only)	<sup>c</sup> <b>HIST 1302</b> – United States History II

**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.

() Course numbers shown in parentheses are equivalent to these courses at [Tarleton State University](http://tarletonstate.edu).

<sup>Δ</sup> This course is a required option or elective for students enrolled in a DCCCD/Dallas ISD Early College High School at specific colleges. Other elective options are available in the DCCCD degree requirements.

Additional coursework may be required if 36 credits are not awarded for the Occupational Specialization block.

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).