



**AAS in Electrical/Electronic Controls Technology to  
BAAS in Manufacturing and Industrial Management  
General Concentration  
Guided Pathway  
2018-2019 Catalog**



**First Year – Tyler Junior College**

FIRST SEMESTER	SECOND SEMESTER
TECM 1303 – Technical Calculations	ELPT 1325 – National Electrical Code I
IEIR 1302 – Introduction to Direct Current Circuits	IEIR 1304 – Alt. Current Circuits for Industrial Applications
CETT 1321 – Electronic Fabrication	CETT 1325 – Digital Fundamentals
<sup>C</sup> ECON 2301 – Principles of Macroeconomics * (080)	<sup>C</sup> ENGL 2311 – Technical & Business Writing * (090)
<sup>C</sup> ENGL 1301 – Composition I (010)	
SUMMER	
ELMT 1380 – Cooperative Education – Electromechanical Technology/Electromechanical Engineering Technology *	

**Second Year – Tyler Junior College**

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

FIRST SEMESTER	SECOND SEMESTER
ELPT 2305 – Motors and Transformers	ELPT 1345 – Commercial Wiring
INCR 1302 – Physics of Instrumentation	ELPT 2347 – Electrical Testing and Maintenance
INTC 1341 – Principles of Automatic Control	ENER 2325 – SCADA and Networking
ELPT 2319 – Programmable Logic Controllers I	<sup>C</sup> SPCH 1321 – Business & Professional Communication (010)
<sup>C</sup> MATH 1314 – College Algebra (020)	<sup>C</sup> PHIL 2306 – Introduction to Ethics (040)

**AAS: Electrical/Electronic Controls Technology**

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
ENGT 3318 Research and Reporting For Technologists	Advanced ENGT Course
<sup>C</sup> MATH 1316 Plane Trigonometry OR Math 1342 Statistics	ENGT 3395 Project Management
Advanced ENGT Course	Advanced ENGT Course
<sup>C</sup> GOVT 2306 Texas Government	<sup>C</sup> *Life and Physical Science (030)
<sup>C</sup> *Life and Physical Science (030)	<sup>C</sup> *Creative Arts (050)

**Fourth Year - Tarleton State University**

FIRST SEMESTER	SECOND SEMESTER
Advanced ENGT Course	ENGT 3375 Continuous Improvement
Advanced ENGT Course	Advanced Elective Course
<sup>C</sup> *Institutional Option (090)	Advanced Elective Course
Advanced Elective Course	Advanced Elective Course
<sup>C</sup> HIST1301 United States History I	<sup>C</sup> HIST 1302 United States History II
SUMMER	
<sup>C</sup> GOVT 2305 Federal Government	Advanced ENGT Course

**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.

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).