



AAS in Electrical/Electronic Controls Technology to
 Bachelor of Applied Arts and Sciences in
 Manufacturing and Industrial Management
 Safety Management Concentration †



Guided Pathway
2019-2020 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
ⒸECON 2301 – Principles of Macroeconomics * (080)	ⒸENGL 2311 – Technical & Business Writing (090)
ⒸENGL 1301 – Composition I (010)	Total semester hours: 12
Total semester hours: 15	

SUMMER I	
IEIR 2388 – Internship – Industrial Electronics Technology/Technician *	
Total semester hours: 3	

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	ⒸSPCH 1321 – Business & Prof. Communication (010) *
ⒸMATH 1314 – College Algebra (020) *	ⒸPHIL 2306 – Introduction to Ethics (040)
Total semester hours: 15	Total semester hours: 15

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.

These courses may be taken at Tyler Junior College or TSU

MATH 1316 – Plane Trigonometry or MATH 1342 – Elementary Statistical Methods	ⒸENGL 1302 – Composition II
Ⓒ*Life and Physical Science Core Elective	Ⓒ*Life and Physical Science Core Elective
ⒸHIST 1301 – United States History I	ⒸHIST1302 – United States History II
Ⓒ*Creative Arts Core Elective	ⒸGOVT 2305 – Federal Government
ⒸGOVT 2306 – Texas Government	
Total Semester Hours: 16	Total Semester Hours: 13

Third Year – Tarleton State University

FIRST SEMESTER	SECOND SEMESTER
Advanced ENGT Elective	ENGT 4320 Occupational Safety and Health
ENGT 3318 Research & Reporting for Technologists	ENGT 3395 Project Management
ENGT 3326 Ergonomics and Work Methods (Spring Only)	ENGT 3360 Safety Management
ENGT 3320 Industrial Safety	Advanced ENGT Elective
Total Semester Hours: 12	Total Semester Hours: 12

Fourth Year – Tarleton State University

FIRST SEMESTER
ENGT 3375 Continuous Improvement
Advanced Elective
Advanced Elective
Advanced Elective
Advanced Elective

Total Semester Hours: 15

Total: 128

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.

Ⓒ 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.

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

For questions about the university portion of this pathway,
 contact the Engineering Technology Department at (254)968-9010 or Engineering.Technology@tarleton.edu.