



Electrical Technology AAS to  
BAAS-Manufacturing and Industrial Management  
Industrial Management Concentration <sup>T</sup>  
**Guided Pathway**  
2019-2020



### First Year – Grayson College

| FIRST SEMESTER                                        | SECOND SEMESTER                                 |
|-------------------------------------------------------|-------------------------------------------------|
| <b>DFTG 1325</b> Blueprint Reading                    | <b>ELPT 2305</b> Motors and Transformers        |
| <b>ELPT 2337</b> Electrical Planning and Estimating   | <b>ELPT 1325</b> National Electrical Code       |
| <b>ELPT 1311</b> Basic Electrical Theory              | <b>ELPT 1329</b> Residential Wiring             |
| <b>ELPT 1221</b> Intro to Electrical Safety and Tools | <b>ELPT 2164</b> Practicum in Elec Transmission |
| <b>ELPT 1291</b> Special Topics in Electric           | <b>ELTN 1343</b> Electrical Troubleshooting     |

Total Semester Hours: 13

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### Second Year – Grayson College

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

| FIRST SEMESTER                                                            | SECOND SEMESTER                                                       |
|---------------------------------------------------------------------------|-----------------------------------------------------------------------|
| <b>ELPT 1345</b> Commercial Wiring                                        | ITSC 1309 Integrated Software Applications                            |
| <b>ELPT 2319</b> Programmable Logic Controllers                           | <sup>C</sup> MATH 1332 Contemporary Mathematics                       |
| <sup>C</sup> ENGL1301 Composition I (option: First year – first semester) | ELPT 2165 Practicum in Elec. Transmission                             |
| <b>ELTN 1391</b> Special Topics                                           | <sup>C</sup> SPCH 1311 Intro to Speech Communication                  |
| <b>ELPT 2343</b> Electrical Systems Design                                | <sup>C</sup> HIST 1301 US History I * (option: first year semester 2) |
| <b>ELPT 1341</b> Motor Control                                            | <sup>C</sup> HUMA 1301 Intro to the Humanities *                      |

Total Semester Hours: 18

Total Semester Hours: 16

### AAS: Electrical 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 completed at Grayson College (if offered) or TSU-Stephenville Campus |                                                                    |
|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| <sup>C</sup> HIST1302 United States History II                                            | <sup>*C</sup> Any Core Applicable Course (1-3 credits)             |
| <sup>C*</sup> Life and Physical Science Elective Course (4 credits)                       | <sup>C</sup> *Social and Behavioral Science Elective Course        |
| <sup>C*</sup> Life and Physical Science Elective Course (4 credits)                       | <sup>C</sup> ENGL 1302 Composition II                              |
| <sup>C</sup> GOVT 2305 Federal Government                                                 | <sup>C</sup> GOVT 2306 Texas Government                            |
| <sup>C*</sup> Creative Arts Elective Course                                               | MATH 1316 Plane Trigonometry or<br>MATH 1342 Elementary Statistics |

Total Hours: 30-32

### 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

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### 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: 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.

- \* 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.
- <sup>()</sup> Course numbers shown in parentheses are equivalent to these courses at Tarleton State University.
- <sup>T</sup> Degree availability varies by campus; consult [www.tarleton.edu](http://www.tarleton.edu) for more information.

*For questions about the University portion of this degree plan,  
Contact the Department of Engineering Technology at 254-968-9010 or [engineering.technology@tarleton.edu](mailto:engineering.technology@tarleton.edu).*