



INDUSTRY,  
MANUFACTURING  
& CONSTRUCTION



**Associate of Applied Science in  
Construction Technology – Electrical Commercial Emphasis to  
BAAS in Manufacturing and Industrial Management  
Industrial Management Concentration<sup>T</sup>  
Guided Pathway  
Effective for the 2019-2020 Catalog<sup>1</sup>**



**First Year Courses – North Lake College<sup>2</sup>**

FIRST SEMESTER	SECOND SEMESTER
OSHT 1307 – Construction Site Safety and Health <b>OR</b> OSHT 1313 – Accident Prevention, Inspection, and Investigation	CNBT 1300 – Residential and Light Commercial Blueprint Reading
ARCE 1303 – Architectural Materials and Methods of Construction	CNBT 2281 – Cooperative Education-Construction/ Engineering Technology/Technician
<sup>C</sup> SPCH 1311 – Introduction to Speech Communication <b>OR</b> (090) <sup>C</sup> SPCH 1315 – Public Speaking <b>OR</b> (090) <sup>C</sup> SPCH 1321 – Business and Professional Communication (090)	<sup>C</sup> ENGL 1301 – Composition I (010)
ELPT 1321 – Introduction to Electrical Safety and Tools	<sup>C</sup> Humanities/Fine Arts Elective* (040 or 050)
ELPT 1311 – Basic Electrical Theory	ELPT 1319 – Fundamentals of Electricity I
	ELPT 1320 – Fundamentals of Electricity II

Total Semester Hours: 15

Total Semester Hours: 17

**Second Year Courses – North Lake College**

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

FIRST SEMESTER	SECOND SEMESTER
<sup>C</sup> Social/Behavioral Sciences Elective* (080)	CNBT 2381 – Cooperative Education-Construction Engineering Technology/Technician
<sup>C</sup> Natural Science Elective* (4 credits) (030)	ELPT 1357 – Industrial Wiring
ELPT 1345 – Commercial Wiring	ELTN 1343 – Electrical Troubleshooting
ELPT 1341 – Motor Control	Electrical-Commercial Electives+ (2 Courses)

Total Semester Hours: 13

Total Semester Hours: 15

**AAS: Construction Technology – Electrical Commercial Emphasis (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 North Lake College (if offered) or TSU-Stephenville Campus**

<sup>C</sup> HIST 1302 – United States History II (060)	<sup>C</sup> GOVT 2306 – Texas Government (070)
<sup>C</sup> Math Core Elective (020)	<sup>C*</sup> Life and Physical Science Core Elective (030) (4 credits)
<sup>C</sup> Language, Philosophy and Culture Core Elective (040) OR Creative Arts Core Elective (050)	<sup>C</sup> ENGL 1302 – Composition II (010)
<sup>C</sup> Institutional Option Core Elective (1-3 credits) (090)	<sup>C</sup> GOVT 2305 – Federal Government (070)
<sup>C</sup> HIST 1301 – United States History I (060)	MATH 1316 – Plane Trigonometry or MATH 1342 – Elementary Statistical Methods

Total Hours: 29-31

**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

Total Semester Hours: 12

**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: 128-130

**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 25% of the credit hours (15 hours) required for graduation through instruction by one of the seven colleges of the DCCCD awarding the degree.

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

\* There are several options to fulfill this requirement. See your academic advisor for a specific list.

+ *Electrical-Commercial Electives: Six (6) hours of electives must be chosen from the following: CNBT 1302, CNBT 1311, CNBT 1346, CNBT 1359, CNBT 2304, CNBT 2315, CNBT 2317, ITSC 1301*

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

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

**Approved: 2019-2020 Guided Pathway**

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