



**AAS in Power Plant 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
ENER 1330 – Basic Mechanical Skills for Energy	IEIR 1304 – Alternating Current Circuits for Ind. App.
TECM 1303 – Technical Calculations	CBFM 1407 – Boiler Operation
IEIR 1302 – Introduction to Direct Current Circuits	INCR 1302 – Physics of Instrumentation
INMT 2301 – Machinery Installation	HYDR 1345 – Hydraulics and Pneumatics
ENGL 1301 – Composition I (010)	MATH 1314 – College Algebra (020)
Total semester hours: 15	Total semester hours: 16

SUMMER	
ELMT 1380 – Cooperative Education – Electromechanical Technology/Electromechanical Engineering Technology *	
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
ELMT 2452 – Power Generation Instrumentation	ELPT 2305 – Motors and Transformers
INMT 2303 – Pumps, Compressors & Mechanical Drives	ELMT 2453 – Power Generation Troubleshooting
ENER 2325 – SCADA and Networking	PHIL 2306 – Introduction to Ethics (040)
ECON 2301 – Principles of Macroeconomics * (080)	SPCH 1321 – Business & Prof. Communication (010)
Total semester hours: 13	Total semester hours: 13

AAS: Power Plant 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	
C* Life and Physical Science Core Elective	ENGL 1302 – Composition II
C HIST 1301 – United States History I	C* Life and Physical Science Core Elective
C* First Year Seminar (Learning Frameworks)	C HIST1302 – United States History II
C GOVT 2306 – Texas Government	C GOVT 2305 – Federal Government
MATH 1316 – Plane Trigonometry or MATH 1342 – Elementary Statistical Methods	C* Language, Philosophy and Culture Core Elective
	C* Creative Arts Core Elective
Total Semester Hours: 16	Total Semester Hours: 16

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: 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.
- C** 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.