



**AAS in Power Plant Technology to  
Bachelor of Applied Arts and Sciences in  
Manufacturing and Industrial Management<sup>T</sup>  
Guided Pathway  
2020-2021 Catalog**



**First Year – Tyler Junior College**

FIRST SEMESTER	SECOND SEMESTER
<b>ENER 1330</b> – Basic Mechanical Skills for Energy	<b>IEIR 1304</b> – Alternating Current Circuits for Ind. App.
<b>TECM 1303</b> – Technical Calculations	<b>CBFM 1307</b> – Boiler Operation
<b>IEIR 1302</b> – Introduction to Direct Current Circuits	<b>INCR 1302</b> – Physics of Instrumentation
<b>INMT 2301</b> – Machinery Installation	<b>HYDR 1345</b> – Hydraulics and Pneumatics
<sup>C</sup> <b>ENGL 1301</b> – Composition I (010)	<b>ELMT 2351</b> - Power Generation Fundamentals
	<sup>C</sup> <b>MATH 1314</b> – College Algebra (020)
Total semester hours: 15	Total semester hours: 18

SUMMER	
<b>ELMT 1380</b> – 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
<b>ELMT 1301</b> - Programmable Logic Controllers	<b>ELPT 2305</b> – Motors and Transformers
<b>INMT 2303</b> – Pumps, Compressors & Mechanical Drives	<b>ELMT 2353</b> – Power Generation Troubleshooting
<b>ENER 2325</b> – SCADA and Networking	<sup>C</sup> <b>PHIL 2306</b> – Introduction to Ethics (040)
<sup>C</sup> <b>ECON 2301</b> – Principles of Macroeconomics * (080)	<sup>C</sup> <b>SPCH 1321</b> – Business & Prof. Communication (010)
Total semester hours: 12	Total semester hours: 12

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

**Third Year – Tarleton State University**

FIRST SEMESTER	SECOND SEMESTER
Tarleton Course	Tarleton Course
Tarleton Course	Tarleton Course
Tarleton Course	Tarleton Course
Tarleton Course	Tarleton Course
Total Semester Hours: 12	Total Semester Hours: 12

**Fourth Year – Tarleton State University**

FIRST SEMESTER
Tarleton Course
Tarleton Course
Tarleton Course
Tarleton Course
Tarleton Course
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.

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

<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 pathway,  
contact the Engineering Technology Department at (254)968-9010 or [Engineering.Technology@tarleton.edu](mailto:Engineering.Technology@tarleton.edu).