



**AAS in Power Plant Technology to  
BAAS in Manufacturing and Industrial Management  
Industrial Management Concentration**



**Guided Pathway  
Effective for the 2018-2019 Catalog**

**First Year – Tyler Junior College**

FIRST SEMESTER (15 SCH)	SECOND SEMESTER (16 SCH)
ENER 1330 – Basic Mechanical Skills for Energy	IEIR 1304 – Alternating Current Circuits for Ind. Applications
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
<sup>c</sup> ENGL 1301 – Composition I (010)	<sup>c</sup> MATH 1314 – College Algebra (020)
SUMMER (3 SCH)	
ELMT 1380 – Cooperative Education – Electromechanical Technology/Electromechanical Engineering Technology *	

**Second Year – Tyler Junior College**

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

FIRST SEMESTER (13 SCH)	SECOND SEMESTER (13 SCH)
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	<sup>c</sup> PHIL 2306 – Introduction to Ethics (040)
<sup>c</sup> ECON 2301 – Principles of Macroeconomics * (080)	<sup>c</sup> SPCH 1321 – Business & Professional Communication (010)

**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.

**Third Year – Tarleton State University**

FIRST SEMESTER	SECOND SEMESTER
ENGT 3318 Research and Reporting For Technologists	ENGT 4336 Production Planning
MATH 1316 Plane Trigonometry OR Math 1342 Statistics	ENGT 3395 Project Management
ENGT 3386 Quality Management	Advanced ENGT Course
<sup>c</sup> ENGL 1302 – Composition II	<sup>c</sup> *Life and Physical Science (030)
<sup>c</sup> *Life and Physical Science (030)	<sup>c</sup> *Visual & Performing Arts (050)
<sup>c</sup> *Institutional Option (090)	SUMMER
	<sup>c</sup> GOVT 2306 Texas Government

**Fourth Year - Tarleton State University**

FIRST SEMESTER	SECOND SEMESTER
ENGT 4346 Manufacturing Management	ENGT 3375 Continuous Improvement
ENGT 4347 Metrics and Measurements (Fall Only)	Advanced Elective Course
Advanced ENGT Course	Advanced Elective Course
Advanced Elective Course	Advanced Elective Course
<sup>c</sup> HIST1301 United States History I	<sup>c</sup> HIST 1302 United States History II
	SUMMER
	<sup>c</sup> GOVT 2305 Federal Government

**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.

Additional coursework may be required if 36 credits are not awarded for the Occupational Specialization block.

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