



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



**First Year – NCTC**

FIRST SEMESTER	SECOND SEMESTER
<b>MCHN 1438</b> – Basic Machine Shop I	<b>DFTG 1309</b> – Basic Computer-Aided Drafting
<b>MCHN 2303</b> – Fund. of CNC Machine Controls	<b>MCHN 2431</b> – Operation of CNC Turning Centers
<b>MCHN 1343</b> – Machine Shop Mathematics	<b>MCHN 2434</b> – Operation of CNC Machining Centers
<b>MCHN 1302</b> - Print Reading Machining Trades	<b>METL 1301</b> – Introduction to Metallurgy
<b>MCHN 1342</b> – Basic Machine Shop II	<b>MCHN 2435</b> – Advanced CNC Machining <sup>1</sup>
	<b>MCHN 1326</b> – Introduction to Computer-Aided Mfg <sup>1</sup>

Total Semester Hours: 16

Total Semester Hours: 21

**Second Year – NCTC**

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

FIRST SEMESTER	SECOND SEMESTER
<b>OSHT 1320</b> – Energy Industrial Safety	<sup>c</sup> <b>SPCH 1311</b> – Introduction to Speech Communication
<sup>c</sup> <b>ENGL 1301</b> – Composition I	<b>BMGT 1327</b> – Principles of Management
<sup>c</sup> <b>GOVT 2306</b> – Texas Government	<sup>c</sup> <b>ARTS 1301</b> – Art Appreciation
<sup>c</sup> <b>MATH 1332</b> – Contemporary Mathematics	<b>MCHN 2380</b> – Co. Ed.-Machine Tool Technology

Total Semester Hours: 12

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**AAS: Machining 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 NCTC (if offered) or TSU-Stephenville Campus**

MATH 1316 Plane Trigonometry OR MATH 1342 Statistics	<sup>c</sup> Life & Physical Science Core Elective (4 credits)
<sup>c</sup> ENGL 1302 Composition II	<sup>c</sup> Social and Behavioral Science Core Elective
<sup>c</sup> Life & Physical Science Core Elective (4 credits)	<sup>c</sup> Language, Philosophy and Culture Core Elective
<sup>c</sup> Any Core Course (minimum 1 credit)	<sup>c</sup> GOVT 2305 Federal Government
<sup>c</sup> HIST1301 United States History I	<sup>c</sup> HIST 1302 United States History II

Total Semester Hours: 14

Total Semester Hours: 16

**Third Year – Tarleton State University**

FIRST SEMESTER	SECOND SEMESTER
ENGT 3318 Research & Reporting for Technologists	ENGT 4336 Production Planning
ENGT 3375 Continuous Improvement	ENGT 3395 Project Management
ENGT 3386 Quality Management	Advanced ENGT Course
Advanced Elective Course	Advanced Elective Course

Total Semester Hours: 12

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**Fourth Year - Tarleton State University**

FIRST SEMESTER
ENGT 4346 Manufacturing Management
Advanced ENGT Course
Advanced Elective Course
Advanced Elective Course
ENGT 4347 Metrics and Measurement (Fall Only)

Total Semester Hours: 15

Total: 130

**This is not an official degree plan. Check with an advisor; degree plans may change in later catalogs.**

\* 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. Sometimes, taking a specific course to meet a Core requirement will also fulfill other requirement for your degree. If this course meets more than one requirement it is listed as the correct option (with no asterisk).

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