



AAS in CADD-Manufacturing Technology to  
Bachelor of Applied Arts and Sciences in  
Manufacturing and Industrial Management  
Industrial Management Concentration<sup>†</sup>  
**Guided Pathway**  
2019-2020 Catalog



**First Year - Tarrant County College District**

FIRST SEMESTER	SECOND SEMESTER
<b>(Program runs on two 8 week sessions per semester) *</b>	<b>DFTG 1445</b> – Parametric Modeling and Design
<b>DFTG 1305</b> – Technical Drafting	<b>DFTG 1458</b> – Electrical and Electronics Drafting
<b>GOVT 2305 (070)</b> – Federal Government <sup>C*</sup>	<b>DFTG 2419</b> – Intermediate Computer-Aid Drafting*
<b>DFTG 1409</b> – Basic Computer Aided Drafting	<b>MCHN 2303</b> – Fundamentals of Comp Num Contrl (CNC)
<b>MCHN 1338</b> – Basic Machine Shop I	

Total Semester Hours: 13

Total Semester Hours: 15

**Second Year – Tarrant County College District**

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

FIRST SEMESTER	SECOND SEMESTER
<b>DFTG 2402</b> – Machine Drafting	<b>DFTG 2440</b> – Solid Modeling and Design
<b>SPCH 1321 (010)</b> – Business & Professional Comm <sup>C*</sup>	<b>ARTS 1301 (050)</b> – Art Appreciation <sup>C*</sup>
<b>MATH 1314 (020)</b> – College Algebra <sup>C*</sup>	<b>ENGL 1301 (010)</b> – Composition I <sup>C</sup>
<b>DFTG 2458</b> – Advanced Machine Design *	<b>DFTG 2438</b> – Final Project in Advanced Drafting (Capstone)
<b>DFTG 2423</b> – Pipe Drafting	

Total Semester Hours: 18

Total Semester Hours: 14

**AAS: CADD-Manufacturing 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 completed at TCC (if offered) or TSU-Stephenville Campus**

<sup>C*</sup> Life and Physical Science Core Elective (4 credits) (030)	<sup>C*</sup> Life and Physical Science Core Elective (4 credits) (030)
<sup>C</sup> HIST 1301 – United States History I	<sup>C</sup> HIST1302 – United States History II
<sup>C*</sup> Any Core Course (090) (1 credit minimum)	<sup>C*</sup> Language, Philosophy and Culture Core Elective (040)
MATH 1316 – Plane Trigonometry or MATH 1342 – Elementary Statistical Methods	<sup>C</sup> ENGL 1302 – Composition II
<sup>C</sup> GOVT 2306 – Texas Government	<sup>C*</sup> Social and Behavioral Science Core Elective (080)

Total Semester Hours: 14

Total Semester Hours: 16

**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: 129

**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>()</sup> Course numbers shown in parentheses are equivalent to these courses at Tarleton State University.

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