



AAS in Computer-Aided Drafting & Design to  
Bachelor of Applied Arts and Sciences in  
Manufacturing and Industrial Management  
Safety Management Concentration<sup>T</sup>  
**Guided Pathway**  
Effective for the 2019-2020 Catalog



**First Year – Central Texas College**

FIRST SEMESTER	SECOND SEMESTER
DFTG 1405 Technical Drafting	DFTG 2317 Description Geometry
DFTG 2412 Technical Illustration & Presentation	DFTG 2402 Machine Drafting
DFTG 1409 Basic Computer-Aided Drafting	DFTG 2440 Solid Modeling/Design
<sup>C</sup> MATH 1332 Contemporary Mathematics	<sup>C</sup> ENGL 1301 Composition I
	<sup>C</sup> SPCH 1315 or 1321

Total Semester Hours: 15

Total Semester Hours: 17

**Second Year – Central Texas College**

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

FIRST SEMESTER	SECOND SEMESTER
DFTG 1417 Architectural Drafting-Residential	DFTG 2323 Pipe Drafting
DFTG 1358 Electrical/Electronic Drafting	DFTG 2421 Topographical Drafting
ARCE 1452 Structural Drafting	DFTG 2438 Final Project – Advanced Drafting
<sup>C</sup> Humanities/Fine Arts Selection*	<sup>C</sup> Social & Behavioral Science Selection*

Total Semester Hours: 14

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**AAS: Computer-Aided Drafting & Design**

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 CTC (if offered) or TSU – Stephenville Campus**

<sup>C</sup> Humanities/Fine Arts Selection*	<sup>C</sup> ENGL 1302 – Composition II
<sup>C*</sup> Life and Physical Science Core Elective (4 credits)	<sup>C*</sup> Life and Physical Science Core Elective (4 credits)
<sup>C</sup> HIST 1301 – United States History I	<sup>C</sup> HIST1302 – United States History II
<sup>C*</sup> Any Core Elective (minimum 1 credit)	<sup>C</sup> GOVT 2305 – Federal Government
<sup>C</sup> GOVT 2306 – Texas Government	MATH 1316 – Plane Trigonometry or MATH 1342 – Elementary Statistical Methods

Total Semester Hours: 14

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

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**Fourth Year – Tarleton State University**

FIRST SEMESTER
ENGT 3375 Continuous Improvement
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.

() Course numbers shown in parentheses are equivalent to these courses at Tarleton State University.

<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).