



INDUSTRY,
MANUFACTURING
& CONSTRUCTION



**Associate in Applied Science in
Computer-Aided Design and Drafting to
Bachelor of Applied Arts and Sciences in
Manufacturing and Industrial Management
Industrial Management Concentration ^T
Guided Pathway
Effective for the 2019-2020 catalog¹**



First Year – Eastfield and Mountain View College²

FIRST SEMESTER	SECOND SEMESTER
DFTG 1315 – Architectural Blueprint Reading [#] OR DFTG 1325 – Blueprint Reading and Sketching ^{##}	Choose One: + ^A ARCE 1303 – Architectural Materials and Methods of Construction DFTG 1315 – Architectural Blueprint Reading DFTG 1325 – Blueprint Reading and Sketching DFTG 1329 – Electro-Mechanical Drafting DFTG 2321 – Topographical Drafting
DFTG 1405 – Technical Drafting ^{##} OR ARCE 1421 – Architectural Illustration [#]	DFTG 2419 – Intermediate Computer-Aided Drafting
DFTG 1409 – Basic Computer-Aided Drafting	DFTG 1417 – Architectural Drafting-Residential
^C MATH 1324 – Math for Business and Social Sciences OR ^C MATH 1314 – College Algebra (020)	^C ENGL 1301 – Composition I (010)

Total Semester Hours: 14

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Second Year – Eastfield and Mountain View College

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

FIRST SEMESTER	SECOND SEMESTER
DFTG 1445 – Parametric Modeling and Design	Choose One: + DFTG 1491 – Special Topics in Drafting and Design Technology/ Technician DFTG 1495 – Special Topics in Mechanical Drafting DFTG 2431 – Advanced Technologies in Architectural Design and Drafting DFTG 2432 – Advanced Computer-Aided Drafting DFTG 2440 – Solid Modeling/Design
^C PSYC 2301 – General Psychology (080)	BCIS 1405 – Business Computer Applications+ OR ITSC 1401 – Introduction to Computers+
ARTC 1302 – Digital Imaging I+ OR ARTC 1325 – Introduction to Computer Graphics+ OR DFTG 2380 – Cooperative Education-Drafting and Design	^C SPCH 1311 – Introduction to Speech Communication OR ^C SPCH 1315 – Public Speaking (090)
^C Fine Arts Elective* (050)	DFTG 2432 – Advanced Computer-Aided Drafting
DFTG 2428 – Architectural Drafting-Commercial	

Total Semester Hours: 17

Total Semester Hours: 15

AAS: Computer-Aided Design and Drafting (60 hours)

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 DCCCD (if offered) or TSU-Stephenville Campus

^{C*} Life and Physical Science Core Elective (030) (4 credits)	^C ENGL 1302 – Composition II
^C HIST 1301 – United States History I	^{C*} Life and Physical Science Core Elective (030) (4 credits)
MATH 1316 Plane Trigonometry OR Math 1342 Elementary Statistics	^C HIST1302 – United States History II
^C Any Core Course (090) (1-3 credits)	^C GOVT 2305 – Federal Government
^C GOVT 2306 – Texas Government	^{C*} Language, Philosophy and Culture Core Elective (040)

Total Semester Hours: 30-32

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	ENGT 4346 Manufacturing Management
Advanced Elective Course	Advanced ENGT Course

Total Semester Hours: 12

Total Semester Hours: 12

Fourth Year - Tarleton State University

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

Total Semester Hours: 15

Total Degree Hours: 129-131

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.

¹ You may use this pathway if you entered one of the seven colleges on or before this date.

² Students must earn at least 25% of the credit hours (15 hours) required for graduation through instruction by one of the seven colleges of the DCCCD awarding the degree.

[#] DFTG 1315 and ARCE 1421 have architecture based coursework. ^{##} DFTG 1325 and 1405 have mechanical based coursework

^C This course counts for the Core Curriculum at any public college or university in Texas.

* There are several course options to fulfill this elective requirement for the Associate Degree. Speak with your academic or faculty advisors for a specific list in the catalog.

+ There are additional courses that can be selected. Speak with your academic or faculty advisors for a specific list in the catalog.

While there are additional courses that can be selected, please note:

^A The following courses will **NOT** count toward the Computer-Aided Design Operator (DO1) Certificate: DFTG 1333, DFTG 1340, DFTG 2381, INMT 1343

[@] The following courses will **NOT** count for the Computer-Aided Design Advanced Operator (DO2) Certificate: DFTG 1333, DFTG 1340, DFTG 1336, INMT 1343

You must earn a grade of "C" or better in English 1301 and the selected college-level mathematics course.

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

Approved: 2019-2020 Guided Pathway

^T Degree availability varies by campus; consult www.tarleton.edu for more information.