

INDUSTRY, MANUFACTURING AND CONSTRUCTION

GUIDED PATHWAY: COMPUTER-AIDED DESIGN AND DRAFTING

For more information, visit www.dcccd.edu/CADD and your academic advisor at Eastfield or Mountain View college.

This is an example course sequence for students interested in pursuing Computer Aided Design and Drafting. It does not represent a contract, nor does it guarantee course availability. Following this pathway will help you earn an Associate of Applied Science (AAS) degree Computer-Aided Design and Draftingⁱⁱ. For official degree requirements, [click here](#).

The AAS degree is designed to prepare you for employment in a wide range of industries as a CAD operator, printed circuit board designer or technician. Information in related fields is provided to enable the student to work effectively with engineers, technologists, architects and professional staff. Gainful employment information for this degree can be found at www.dcccd.edu/gainfulemp. Courses that complete the Degree (D), Computer-Aided Design Operator (DO1), and Computer-Aided Design Advanced Operator (DO2) Certificate are noted below.

Visit www.ntxccc.org/pathways to view guided pathways created for students who complete an AAS degree and the options for transfer to complete a Bachelor of Applied Arts and Science. Speak with an academic advisor at your college to choose courses that will help you to transfer to a specific university.



ONLY Offered at EFC & MVC

COLLEGE READINESS REQUIREMENTS (only for the AAS)

Enrolling in one or more courses may be necessary if assessment activities and previous academic experiences indicate a need for additional knowledge and skills:

READING & WRITING PLACEMENT

MATH PLACEMENT

ENGLISH LANGUAGE PROFICIENCY

TSI READING MET: YES NO

TSI MATH MET: YES NO

ENGLISH PROFICIENCY: YES NO

TSI WRITING MET: YES NO

IF TSI OR ENGLISH LANGUAGE PROFICIENCY NOT MET, INSERT COURSE(S) NEEDED

DREA / DWRI / DIRW (CIRCLE ONE)

DMAT

ESOL

OTHER:

OTHER:

OTHER:

Exemptions/waivers may exist. Speak with an academic advisor regarding placement in college readiness courses and your ability to enroll in core academic coursework.

SEMESTER-BY-SEMESTER MAP FOR FULL-TIME STUDENTSⁱⁱⁱ

ALL MAPS CAN BE MODIFIED TO FIT THE NEEDS OF PART-TIME STUDENTS

D	DO1	DO2	SEMESTER 1	ACTION ITEMS
♦	♦	♦	DFTG 1315 – Architectural Blueprint Reading ^{iv} OR DFTG 1325 – Blueprint Reading and Sketching ^v	<input type="checkbox"/> Meet with your advisor to confirm academic and career goals before the end of the semester. <input type="checkbox"/> Meet with a career advisor or coach to research your career options and opportunities for job shadowing.
♦	♦	♦	DFTG 1405 – Technical Drafting ^v OR ARCE 1421 – Architectural Illustration ^{iv}	
♦	♦	♦	DFTG 1409 – Basic Computer-Aided Drafting	
♦	♦	♦	MATH 1324 – Mathematics for Business and Social Sciences ^{vi} (core course) OR MATH 1314 – College Algebra ^{vi} (core course)	
TOTAL SEMESTER CREDIT HOURS: 14				
D	DO1	DO2	SEMESTER 2	ACTION ITEMS
♦	♦	♦	Choose One: ^{vii, viii} 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	<input type="checkbox"/> Meet with your advisor to file an official program of study audit, confirm or update your academic/career path and program of study. <input type="checkbox"/> Apply for Computer-Aided Design Operator ^{viii} (DO1) Certificate Completion.
♦	♦	♦	DFTG 2419 – Intermediate Computer-Aided Drafting	
♦	♦	♦	DFTG 1417 – Architectural Drafting-Residential	
♦	♦	♦	ENGL 1301 – Composition I ^{vi} (core course)	
TOTAL SEMESTER CREDIT HOURS: 14				
D	DO1	DO2	SEMESTER 3	ACTION ITEMS
♦		♦	DFTG 1445 – Parametric Modeling and Design	<input type="checkbox"/> Meet with a career advisor or coach for assistance in preparing for job search.
♦		♦	PSYC 2301 – General Psychology (core course)	
♦		♦	ARTC 1302 – Digital Imaging I ^{vii} OR ARTC 1325 – Introduction to Computer Graphics ^{vii} OR DFTG 2380 – Cooperative Education-Drafting and Design	
♦		♦	Humanities/Fine Arts Elective ^{ix} (core course)	
♦		♦	DFTG 2428 – Architectural Drafting-Commercial	
TOTAL SEMESTER CREDIT HOURS: 17				
D	DO1	DO2	SEMESTER 4	ACTION ITEMS
♦			Choose One: ^{vii} 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	<input type="checkbox"/> After reviewing your degree plan and program of study, apply for Graduation. <ul style="list-style-type: none"> o Meet with your advisor to apply for the <ul style="list-style-type: none"> ▪ Computer-Aided Design and Drafting AAS. ▪ Computer-Aided Design Advanced Operator^x (DO2) Certificate Completion o Sign up for Commencement. <input type="checkbox"/> Join the Alumni Network!
♦			BCIS 1405 – Business Computer Applications ^{vii} OR ITSC 1401 – Introduction to Computers ^{vii}	
♦			SPCH 1311 – Introduction to Speech Communication (core course) OR SPCH 1315 – Public Speaking (core course)	
		♦	DFTG 2432 – Advanced Computer-Aided Drafting	
TOTAL SEMESTER CREDIT HOURS: 15				
AAS DEGREE MINIMUM: 60 SEMESTER CREDIT HOURS PATHWAY TOTAL: 60 SEMESTER CREDIT HOURS				

ⁱ Degree plans may change in later catalogs. You may use this pathway if you entered one of the seven colleges on or before this date.

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

ⁱⁱⁱ This is not an official degree plan. For official degree requirements, [click here](#).

^{iv} DFTG 1315 and ARCE 1421 have architecture based coursework.

^v DFTG 1325 and 1405 have mechanical based coursework

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

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

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

^{ix} 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.

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

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

