



Program Map 2018-2019 College Credit Catalog  
**Architectural and Engineering Computer Aided Design: Civil Specialization**



**Degree:** Civil Specialization Associate of Applied Science (AAS)  
**Certificate:** Civil CAD Specialization Level 1 (C1)

**DESIGN, MANUFACTURING, CONSTRUCTION & APPLIED TECHNOLOGY**

**Program Description:** This program is intended for students pursuing careers in the Civil CAD Drafting and Design Specialization and preparing to transfer to university civil programs.

Civil CAD drafters work with civil engineers and designers in the preparation of drawings necessary for civil engineering, surveying or construction projects. Study of local design criteria is important to the education of a civil drafter. Some civil drafters specialize in creating drawings for publish works, survey maps, land development, transportation, pipe utilities and others.

**Contact:**  
 Doug Smith  
 Department Chair  
 douglas@austincc.edu  
 512-223-4853

**Department Website:**  
 www.cadlearningcenter.com

Students who choose the Civil Specialization career track are employed by organizations that offer services to the Architectural, Engineering, Construction, and/or Surveying industries. These may include working for a Professional Engineer, Land Surveyor or Governmental Agency. Students are strongly encouraged to meet with the Architectural and Engineering Computer Aided Design faculty advisor before pursuing this degree program.

*Use this Program Map to choose courses with your college advisor and track your progress towards milestones and completion of program.*

Pre-Degree Requirements		
Program Specific	Reading and Writing Placement <i>Placements based on TSI</i>	Mathematics Placement <i>Placements based on TSI</i>
	<input type="checkbox"/> Basic Developmental Courses <input type="checkbox"/> ESOL Courses <input type="checkbox"/> INRW Courses	<input type="checkbox"/> NCBM and MATD courses paired with MATH courses <input type="checkbox"/> NCBM and MATD courses
<b>SEMESTER-BY-SEMESTER PROGRAM PLAN FOR FULL-TIME STUDENTS</b> <i>Plans can be modified to fit the needs of part-time students by adding more semesters</i>		

*D=Degree  
 C1=Level 1 Certificate*

C1	D	Semester 1	CR	Advising Notes
	●	EDUC 1300 - Effective Learning: Strategies for College Success	3	All first-time Austin Community College (ACC) students with fewer than 12 SCH of successful college credit must take the EDUC 1300 course in their first semester at ACC. All other students can choose a speech course from the Component Area Option section of the Core Curriculum Course List.
	●	DFTG 1405 - Technical Drafting	4	
	●	GEOG 2470 - Introduction to Geographic Information Systems (GIS) <b>OR</b> GISC 1411 - Introduction to Geographic Information Systems	4	
	●	Social and Behavioral Sciences	3	Select from the appropriate section of the Core Curriculum Course List.
			<b>14</b>	<b>Program Semester Hours / Meet with your advisor</b>
		Semester 2		
	●	DFTG 1417 - Architectural Drafting – Residential <b>OR</b> DFTG 2431 - Advanced Technologies in Architectural Design and Drafting	4	Prerequisite(s): DFTG 1405.
	●	DFTG 1433 - Mechanical Drafting	4	Prerequisite(s): DFTG 1405.
	●	DFTG 2430 - Civil Drafting	4	Prerequisite(s): DFTG 1405.
	●	Mathematics	3	Select from the appropriate section of the Core Curriculum Course List.
			<b>15</b>	<b>Program Semester Hours / Meet with your faculty advisor</b>

Semester 3			
•	•	DFTG 2421 - Topographical Drafting	4 Prerequisite(s): DFTG 2430.
•	•	DFTG 2475 - Water and Wastewater Drafting	4 Prerequisite(s): DFTG 2430. <b>ACHIEVEMENT:</b> Completion of Civil CAD Specialization Level 1 Certificate
	•	DFTG 1470 - Drafting for Stormwater Management	4 Prerequisite(s): DFTG 2430.
	•	ENGL 1301 - English Composition I <b>OR</b> ENGL 2311 - Technical and Business Writing	3 Prerequisite(s): TSI complete in reading and writing or exempt.
			<b>15 Program Semester Hours / Meet with your faculty advisor</b>
Semester 4			
	•	DFTG 1472 - Civil Design Visualization	4 Prerequisite(s): DFTG 2430.
•	•	DFTG 1491 - Special Topics in Drafting and Design Technology/Technician, General	4 Capstone course. Prerequisite(s): Advanced students only or instructional program chair approval. Students must attend orientation.
	•	Restricted Elective	3-4 Select from: ARCE 1452, ARCE 2352, ARCH 1301, ARCH 1302, ARCH 1303, ARCH 1304, ARCH 1307, ARCH 1311, ARCH 1315, ARCH 2301, ARCH 2312, CETT 1403, CETT 1425, CNBT 1411, DFTG 1402, DFTG 1429, DFTG 1445, DFTG 1458, DFTG 1494, DFTG 1495, DFTG 2400, DFTG 2402, DFTG 2405, DFTG 2413, DFTG 2419, DFTG 2427, DFTG 2428, DFTG 2432, DFTG 2433, DFTG 2436, DFTG 2440, DFTG 2449, DFTG 2473, DFTG 2474, DFTG 2476, ENGR 1304, MCHN 1426, MCHN 2438, WLDG 1337.
	•	Language, Philosophy, and Culture <b>OR</b> Creative Arts	3 Select from the appropriate section of the Core Curriculum Course List.
	•	Restricted Elective	2-3 Select from: ELPT 1271, ENGR 1201, ENGR 1304, IEIR 1271, MUSP 12xx, SRVY 1301. <b>ACHIEVEMENT:</b> Associate of Applied Science degree in Civil Specialization
			<b>16-18 Program Semester Hours</b>
<b>Total Program Hours:</b>			<b>60-62</b>

Please always check online at [catalog.austincc.edu](http://catalog.austincc.edu) or meet with your academic or program advisor to ensure that you are viewing the latest and most accurate information.

## Career & Transfer Resources

ACC's Career and Transfer websites provide detailed, guided information on career exploration and transfer.

[www.austincc.edu/career](http://www.austincc.edu/career)

[www.austincc.edu/transfer](http://www.austincc.edu/transfer)

For further information regarding this specific program, please see the Career & Transfer Resources supplement provided in the next section of this Program Map.

## Program Map

# Architectural and Engineering Computer Aided Design: Civil Specialization

**Degree:** Civil Specialization Associate of Applied Science (AAS)

**Certificate:** Civil CAD Specialization Level 1 (C1)

Career & Transfer Resources Updated 8/18/17

## Career Information

### Common Job Titles

Civil Drafters (includes Civil CAD Designer (Civil Computer Aided Design Designer), Civil CAD Tech (Civil Computer-Aided Design Technician), Civil Drafter, Computer-Aided Design Designer (CAD Designer), Computer-Aided Design Operator (CAD Operator), Computer-Aided Design Technician (CAD Technician), Computer-Aided Drafting and Design Drafter (CADD Drafter), Drafting Technician, Draftsman, Draftsperson)

*Many career opportunities in this field require completion of a baccalaureate degree or higher.*

### Regional Labor Market Information

Civil Drafters: New workers generally start around \$35,304. Normal pay for Civil Drafters is \$47,030 per year, while highly experienced workers can earn as much as \$79,238. Over the last year, 24 companies have posted 92 jobs for Civil Drafters in this region. There are currently 1,086 Civil Drafters that are employed in Austin-Round Rock, TX.

Source: <https://austincc.emsicc.com/careers/civil-drafter>

**Career and labor market research tools** (see Quick Reference Guide at <http://www.austincc.edu/career>):

EMSI: <https://austincc.emsicc.com/>, Bureau of Labor Statistics: <http://www.bls.gov/ooh/>, O\*NET: <https://www.onetonline.org/>

**Career Resources:** ACC's career services website provides information on career exploration and employment at <http://www.austincc.edu/career>. Students are encouraged to consult with their [area of study advisor](#) for additional career assistance. The above information is provided as a guide and reference tool for occupations related to this program. This is not a guarantee of job placement in any of these occupations after successful completion of an ACC program. The common job titles listed are representative titles and are provided for career research. These are not the only occupations possible in this area of study.

## Transfer Information

The Associate of Applied Science in Architectural and Engineering Computer Aided Design - Civil Specialization prepares students to directly enter the workforce. A Bachelor of Applied Arts and Sciences (BAAS) is a degree option for students in AAS programs who want to transfer and complete a 4-year degree.

**Transfer Guides:** *The universities listed here do not constitute an ACC endorsement. Transfer course evaluations and determination of what courses will count toward a bachelor's degree are made by the receiving transfer institution.*

### Texas A&M University Commerce:

[http://www.tamuc.edu/academics/colleges/scienceEngineeringAgriculture/departments/appliedSciences/documents\\_OLD/degreeGuidepdf/austincc/AustinCCBAASCareerFieldCAD20082009.pdf](http://www.tamuc.edu/academics/colleges/scienceEngineeringAgriculture/departments/appliedSciences/documents_OLD/degreeGuidepdf/austincc/AustinCCBAASCareerFieldCAD20082009.pdf)

**Tarleton State University:** <http://www.tarleton.edu/admissions/transfer>

**Texas State University:** <http://www.owls.txstate.edu/undergraduate-degrees/applied-arts-sciences.html>

**Concordia University Texas:** <http://www.concordia.edu/academics/college-of-business-and-communication/baas-in-business.html>

**Texas A&M University Central Texas:** <https://www.tamuct.edu/degrees/undergraduate/business-management.html>

**Texas Tech University:** [https://www.depts.ttu.edu/universitystudies/prospective\\_students/baas.php](https://www.depts.ttu.edu/universitystudies/prospective_students/baas.php)

**Additional Transfer Resources:** ACC's transfer website provides information on additional colleges & universities: <http://www.austincc.edu/transferguides>. Students are encouraged to consult with a faculty advisor, [area of study advisor](#), and/or their chosen transfer institution to ensure courses taken at ACC will apply toward their bachelor's degree program.