



# Program Map 2018-2019 College Credit Catalog

## Architectural and Engineering Computer Aided Design: Architectural Specialization



**Degree:** Architectural Specialization Associate of Applied Science (AAS)  
**Certificate:** Architectural CAD/Building Information Modeling Specialization Level 1 (C1)

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

**Program Description:** This program is intended for students pursuing careers in the field of Architectural Computer Aided Design (CAD)/Building Information Modeling (BIM) and preparing to transfer to university architectural programs.

Architectural CAD drafters work with architects and designers in the preparation of drawings necessary to build a structure. Study of construction techniques and materials, as well as building codes are important to the education of an architectural drafter. Some architectural drafters specialize in residential architecture (homes) while others may specialize in commercial architecture (buildings and apartments) while others may specialize in structural drafting (steel buildings, concrete structures).

Students who choose the Architectural Specialization career track are employed by organizations that offer services to the Architectural, Engineering, Construction, and/or Building industries. These may include working for an Architect, Professional Engineer, an MEP (Mechanical, Electrical, Plumbing) design firm or a civil engineering firm (design of subdivisions, roads, etc.). Students are strongly encouraged to meet with the Architectural and Engineering Computer Aided Design faculty advisor before pursuing this program.

**Contact:**  
 Doug Smith  
 Department Chair  
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 512-223-4853

**Department Website:**  
[www.cadlearningcenter.com](http://www.cadlearningcenter.com)

*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.
	●	ARCH 1311 - Introduction to Architecture	3	
	●	ARCH 1307 - Architectural Graphics I	3	
	●	ARCH 1303 - Architectural Design I	3	
	●	DFTG 1405 - Technical Drafting	4	
			<b>16</b>	<b>Program Semester Hours / Meet with your advisor</b>
		Semester 2		
	●	DFTG 1417 - Architectural Drafting - Residential	4	Prerequisite(s): DFTG 1405.
	●	DFTG 2431 - Advanced Technologies in Architectural Design and Drafting	4	Prerequisite(s): DFTG 1405.
	●	DFTG 2430 - Civil Drafting	4	Prerequisite(s): DFTG 1405.
	●	DFTG 1433 - Mechanical Drafting	4	Prerequisite(s): DFTG 1405.
			<b>16</b>	<b>Program Semester Hours / Meet with your faculty advisor</b>

Semester 3				
•	•	DFTG 2428 - Architectural Drafting - Commercial	4	Prerequisite(s): DFTG 1417, DFTG 2431.
•	•	ARCE 1452 - Structural Drafting	4	Prerequisite(s): DFTG 1417, DFTG 2431.
•	•	ARCE 2352 - Mechanical and Electrical Systems	3	Prerequisite(s): DFTG 1417, DFTG 2431.
	•	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>14</b>	<b>Program Semester Hours / Meet with your faculty advisor</b>
Semester 4				
	•	Restricted Elective	1-4	Select from ARCH 1304, ARCH 1301, ARCH 1302, ARCH 1307, ARCH 1315, ARCH 2312, BUSG 1193, CETT 1425, CNBT 1411, DFTG 1196, DFTG 1470, DFTG 1494, DFTG 1495, DFTG 2405, DFTG 2413, DFTG 2419, DFTG 2421, DFTG 2427, DFTG 2432, DFTG 2433, DFTG 2436, DFTG 2449, DFTG 2474, DFTG 2475, DFTG 2476, ENGR 1201, ENGR 1304, GEOG 2470, GISC 1411, IEIR 1271, ITSC 1307, MCHN 1426, MCHN 2438, MUEN 11xx, MUSI 11xx, MUSP 11xx, POFT 1127, SRVY 1301, WLDG 1337.
	•	Social and Behavioral Sciences	3	Select from the appropriate section of the Core Curriculum Course List.
	•	Mathematics	3	Select from the appropriate section of the Core Curriculum Course List.
•	•	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. <b>ACHIEVEMENT:</b> Architectural CAD/Building Information Modeling Specialization Level 1 Certificate
	•	Language, Philosophy, and Culture <b>OR</b> Creative Arts	3	Select from the appropriate section of the Core Curriculum Course List. <b>ACHIEVEMENT:</b> Associate of Applied Science degree in Architectural Specialization
			<b>14-17</b>	<b>Program Semester Hours</b>
<b>Total Program Hours:</b>			<b>60-63</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

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Career & Transfer Resources Updated 8/18/17

## Career Information

### Common Job Titles

Architectural Drafters (includes Architect, Architectural Designer, Architectural Drafter, Architectural Draftsman, Architectural Intern, CAD Technician (Computer-Aided Design Technician), Drafter, Draftsman, Intern Architect  
*Many career opportunities in this field require completion of a bachelor's degree or higher.*

### Regional Labor Market Information

Architectural Drafters: New workers generally start around \$35,304. Normal pay for Architectural Drafters is \$47,030 per year, while highly experienced workers can earn as much as \$79,238. Over the last year, 54 companies have posted 193 jobs for Architectural Drafters in this region. There are currently 1,080 Architectural Drafters that are employed in Austin-Round Rock, TX.

Source: <https://austincc.emsicc.com/careers/architectural-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 Architectural CAD Drafting and Design Specialization is designed to prepare you for transfer to a 4-year university bachelor's program. The degree is based on the 42-hour Core Curriculum and Architectural Field of Study Curriculum, and represents the first two years of a 4-year degree and will vary from university to university. 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:** <https://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.