



Program Map 2018-2019 College Credit Catalog

Architectural and Engineering Computer Aided Design: Interdisciplinary Specialization



Degree: Interdisciplinary Specialization Associate of Applied Science (AAS)
Certificate: Architectural and Engineering Computer Aided Design Specialization Level 1 (C1)

DESIGN, MANUFACTURING, CONSTRUCTION & APPLIED TECHNOLOGY

Program Description: Interdisciplinary Specialization is intended for students who would like to be trained in several different areas of the Computer Aided Design (CAD) field. Students have the option to choose from any of the Architectural and Engineering Computer Aided Design course offerings to meet the degree requirements in this program. Students are strongly encouraged to meet with the Architectural and Engineering Computer Aided Design faculty advisor before pursuing this degree program.

Contact:
 Doug Smith
 Department Chair
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Department Website:
 www.cadlearningcenter.com

The Architectural and Engineering Computer Aided Design Specialization Level 1 Certificate program is offered to those students interested in pursuing a career in Computer Aided Design and Drafting. Students wishing to focus in a particular field (architectural/civil, mechanical, electronic, etc.) are strongly encouraged to meet with an Architectural and Engineering Computer Aided Design faculty advisor before pursuing this certificate 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
SEMESTER-BY-SEMESTER PROGRAM PLAN FOR FULL-TIME STUDENTS		
<i>D=Degree C1=Level 1 Certificate</i>		
<i>Plans can be modified to fit the needs of part-time students by adding more semesters</i>		

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	
	●	ENGL 1301 - English Composition I OR ENGL 2311 - Technical and Business Writing	3	Prerequisite(s): TSI complete in reading and writing or exempt.
	●	Mathematics	3	Select from the appropriate section of the Core Curriculum Course List.
	●	Social and Behavioral Sciences	3	Select from the appropriate section of the Core Curriculum Course List.
			16	Program Semester Hours / Meet with your advisor
Semester 2				
●	●	DFTG 1433 - Mechanical Drafting	4	Prerequisite(s): DFTG 1405.
●	●	DFTG 2430 - Civil Drafting	4	Prerequisite(s): DFTG 1405.
●	●	DFTG 2431 - Advanced Technologies in Architectural Design and Drafting	4	Prerequisite(s): DFTG 1405.
●	●	DFTG 1417 - Architectural Drafting - Residential	4	Prerequisite(s): DFTG 1405.
			16	Program Semester Hours / Meet with your program advisor
Semester 3				
●	●	DFTG 2419 - Intermediate Computer-Aided Drafting	4	Prerequisite(s): DFTG 1405.
●	●	DFTG 2428 - Architectural Drafting - Commercial	4	Prerequisite(s): DFTG 1417, DFTG 2431.
●	●	DFTG 1429 - Electro-Mechanical Drafting	4	Prerequisite(s): DFTG 1433.
●	●	DFTG 2421 - Topographical Drafting	4	Prerequisite(s): DFTG 2430.
			16	Program Semester Hours / Meet with your program advisor

		Semester 4	
	●	Restricted Elective	1-4 Select from: ARCE 1452, ARCE 2352, ARCH 1301, ARCH 1302, ARCH 1303, ARCH 1304, ARCH 1307, ARCH 1311, ARCH 1315, ARCH 2301, ARCH 2312, BUSG 1193, CETT 1425, CNBT 1411, DFTG 1470, DFTG 1494, DFTG 1495, DFTG 2402, DFTG 2405, DFTG 2413, DFTG 2427, DFTG 2432, DFTG 2433, DFTG 2436, DFTG 2440, DFTG 2449, DFTG 2473, DFTG 2474, DFTG 2476, ENGR 1201, ENGR 1304, GEOG 2470, GISC 1411, IEIR 1271, ITSC 1307, KINE (all), MCHN 1426, MCHN 2438, MUEN 11xx, MUSI 11xx, MUSP 11xx, POFT 1127, SRVY 1301, WLDG 1337.
	●	Language, Philosophy, and Culture OR Creative Arts	3 Select from the appropriate section of the Core Curriculum Course List.
	●	Restricted Elective	4 Select from: DFTG 1402, DFTG 2440 (if not previously taken), DFTG 2475.
●	●	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. ACHIEVEMENT: Architectural and Engineering Computer Aided Design Specialization Level 1 Certificate ACHIEVEMENT: Associate of Applied Science degree in Interdisciplinary Specialization
			12-15 Program Semester Hours
		Total Program Hours:	60-63

Please always check online at 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

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: Interdisciplinary Specialization

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Certificate: Architectural and Engineering Computer Aided Design Specialization Level 1 (C1) Career & Transfer Resources Updated 8/18/17

Career Information

Common Job Titles

Architectural Drafters, Mechanical Drafter, Civil Drafter

Many career opportunities in this field require completion of a baccalaureate 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>

Mechanical Drafters: New workers generally start around \$38,758. Normal pay for Mechanical Drafters is \$54,057 per year, while highly experienced workers can earn as much as \$79,732. Over the last year, 17 companies have posted 43 jobs for Mechanical Drafters in this region. Over the last year, 17 companies have posted 43 jobs for Mechanical Drafters. There are currently 264 Mechanical Drafters that are employed in Austin-Round Rock, TX.

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

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 - Interdisciplinary 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

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>

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.