



Arts, Media, and Technology Career and Academic Pathways (CAPs) Program Map: Certificate of Achievement for Architectural Computer Aided Design

Total number of units: 37 units

Top Code/Academic Plan: 0201.00

Updated on November 29, 2021

Session 1	Course Code	Course	Units	Notes	Notes for Part-time students
Program Course	ARC 161	Intro to Computer-Aided Architectural Design	2	Corequisite: ARC180.	
Program Course	ARC 172	Architectural Drawing I	3	Prerequisite: ARC 170 or Consent of Instructor.	
Program Course	ARC 180	Computer-Aided Architectural Lab	1	Corequisite: ARC 161.	

Total Units 6

Session 2	Course Code	Course	Units	Notes	Notes for Part-time students
Program Course	ARC 160	Computers for Designers	3		
Program Course	ARC 162	Computer-Aided Design and Drafting	3	Prerequisite: ARC 161 - Corequisite: ARC 182.	
Program Course	ARC 173	Architectural Drawing II	3	Prerequisite: ARC 171.	
Program Course	ARC 182	Computer-Aided Architectural Lab	1	Corequisite: ARC 162.	

Total Units 10

Intersession	Course Code	Course	Units	Notes	Notes for Part-time students
Program Course	ARC 264	3D Modeling for Designers	3		

Total Units 3

Session 3	Course Code	Course	Units	Notes	Notes for Part-time students
Program Course	ARC 171	Architectural Detailing	2	Prerequisite: ARC 170.	
Program Course	ARC 261	CAD for Architecture I	3	Prerequisite: ARC 162 - Corequisite: ARC 182.	
Program Course	ARC 271	Architectural Drawing III	3	Prerequisite: ARC 173.	
Program Course	ARC 280	Computer-Aided Design for Architecture I Lab	1	Corequisite: ARC 261.	

Total Units 9

Session 4	Course Code	Course	Units	Notes	Notes for Part-time students
Program Course	ARC 164	Design Software for Architecture	2		
Program Course	ARC 262	CAD for Architecture II	3	Prerequisite: ARC 261 - Corequisite: ARC 282.	
Program Course	ARC 282	Computer-Aided Design for Architecture II Lab	1	Corequisite: ARC 262.	
Program Course	ARC 272	Architectural Drawing IV	3	Prerequisite: ARC 271.	

Total Units 9

Degree Path and Requirements:

Certificate of Achievement, Architectural Computer Aided Design. Requirements for the Certificate include: 37 "Architectural Computer-Aided Design" Certificate units. No other course work or LACCD General Education Plan course required. Completion of this Certificate is the foundation for the Associate in Arts Degree, Architectural Computer Aided Design.

This map is a suggested term-by-term sequence of courses to complete the program in a recommended time frame. This is an efficient and recommended plan, but actual plans may vary by individual student need. This map cannot replace a meeting with [counselors](#). Students can apply for certificates as soon as the necessary courses are completed. Meet with a [counselor](#) and the [financial aid office](#) to ensure continued financial aid. Check with [financial aid](#) for eligibility.

Department Advising Notes:

This map was created for students wishing to pursue a Certificate of Achievement, with an emphasis in Digital skills (Auto-CAD, Revit, 3-D Studio Max, Sketch-up, Rhino, et al). The Department provides 3 other focused Certificates of Achievements in Architectural Design, Architectural Drafting and Architectural Drawing. It is recommended to review the course maps and the course descriptions found in the College General Catalog to determine student interest and associated pathway. These Certificate of Achievements are the foundation of specific Associated in Arts curriculum. These certificates assist with the Professional Portfolio and employment opportunities.

Note: This Certificate Map, by itself, are not the preferred or qualified pathway to University Transfer. While some course work will cross over, the University Transfer Pathway is specific to individual Universities and will require counseling with the Department of Architecture Chair.

Note: Course offerings are fairly consistent from semester to semester and year to year.

Program Description

One of four Certificate of Achievement Programs, this 37 Unit Certificate is an emphasis in Digital skills. This program provides introductory and advanced skill preparation for the workplace in the Architecture, Design and Construction industry. These courses are exclusive of the University programs who do not provide course work or organized training in these skill areas. Course are designed for those entering the profession for the first time and those with University degrees as well as years of industry experience.

Career and Transfer Opportunities

Computer-Aided Design courses range from the technical applications (construction documents and detailing) to design, research and presentations. Depending on the students chosen area of discipline, this curriculum provides fundamental and advanced skill project execution. These become valuable examples of skill execution in ones Professional Portfolio used for employment opportunities. Career opportunities vary within the level of CAD skills and other skills obtained in the industry. Entry level positions are identified by "Junior CAD Draftsman" with the Architectural industry and starting salaries average around \$25.00 hour. The value of a Degree over that of the Certificate of Achievement may affect career sustainability, etc. Due to the added education exposure, one with a degree is assumed to provide a broader grasp of critical thinking and multiple discipline applications to problem solving. There are many other industries that utilize the skills from a Certificate of Achievement in Architectural-Computer Aided Design program. Their salaries vary. University transfer requirements vary greatly. Digital requirements are limited, however, due to industry needs and advanced skills to assist the student in the transfer portal, these course are highly recommend for student success and portfolio development.

Visit the [Transfer Center](#) for transfer information, which varies based on transfer college. Make an appointment with a [counselor](#). Students can visit [Career and Job Services](#) for career counseling and further exploration. For additional resources, students pursuing a certificate can visit the [American Job Center of California](#) on ELAC main campus.

Youtube Videos

[You Belong at East Los Angeles College](#)

Program Map

A suggested sequence of classes to complete a degree, certificate, or program of study. Students should consult an academic counselor for variations to this plan based on part-time or full-time status, transfer plans, pre-requisites needed, etc.

Prerequisite Course

A specific course that must be completed before advancing to the next course.

Check the online catalog at elac.edu for the latest and most accurate information.

Contact

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