

# Guided Pathways: Redesigning ELAC



## Visual & Performing Arts Career and Academic Pathways Program Map: Associate in Arts Degree for Architectural Computer Aided Design

Total number of units: 62 units

Top Code/Academic Plan: 20100

Updated on August 8, 2020

Semester 1	Course Code	Course	Units	Notes	Notes for Part-time students
Program Course	ARC 110	<b>Intro to Architecture</b>	1	To be taken during prior Summer Intersession.	
Program Course	ARC 172	<b>Architectural Drawing I</b>	3	Prerequisite: ARC 170 or Consent of Instructor.	
Program Course	ENV 101	<b>Foundations of Design I</b>	3		
Program Course	ARC 185	<b>Directed Study Architecture - Elective</b>	1	Can be taken any semester upon Chair's approval.	
GE Course	Area D2: MATH 241 or 241S	<b>Trigonometry with Vectors</b>	4	Note: Schedule for all GE courses to be verified.	

**Total Units 12**

Intersession	Course Code	Course	Units	Notes	Notes for Part-time students
Program Course	ARC 161	<b>Intro to Computer-Aided Architectural Design</b>	2	Corequisite: ARC180.	
Program Course	ARC 180	<b>Computer-Aided Architectural Lab</b>	1	Corequisite: ARC 161.	

**Total Units 3**

Semester 2	Course Code	Course	Units	Notes	Notes for Part-time students
Program Course	ARC 160	<b>Computers for Designers</b>	3		
Program Course	ARC 162	<b>Computer-Aided Design and Drafting</b>	3	Prerequisite: ARC 161 - Corequisite: ARC 182.	
Program Course	ARC 173	<b>Architectural Drawing II</b>	3	Prerequisite: ARC 171.	
Program Course	ARC 182	<b>Computer-Aided Architectural Lab</b>	1	Corequisite: ARC 162.	
GE Course	LACCD GED: ENGLISH 101	<b>College Reading and Composition I</b>	3	Note: Schedule for all GE courses to be verified.	

**Total Units 13**

Intersession	Course Code	Course	Units	Notes	Notes for Part-time students
Program Course	ARC 264	<b>3D Modeling for Designers</b>	3		
GE Course	Area E / HEALTH 11	<b>Principles of Healthful Living</b>	3	Note: Schedule for all GE courses to be verified.	

**Total Units 6**

Semester 3	Course Code	Course	Units	Notes	Notes for Part-time students
Program Course	ARC 164	<b>Design Software for Architecture</b>	3		
Program Course	ARC 171	<b>Architectural Detailing</b>	2	Prerequisite: ARC 170.	
Program Course	ARC 261	<b>CAD for Architecture I</b>	3	Prerequisite: ARC 162 - Corequisite: ARC 182.	

Semester 3	Course Code	Course	Units	Notes	Notes for Part-time students
Program Course	ARC 271	<b>Architectural Drawing III</b>	<b>3</b>	Prerequisite: ARC 173.	
Program Course	ARC 280	<b>Computer-Aided Design for Architecture I Lab</b>	<b>1</b>	Corequisite: ARC 261.	

**Total Units 12**

Intersession	Course Code	Course	Units	Notes	Notes for Part-time students
GE Course	Area A / BIOLOGY 25	<b>Human Biology</b>	<b>3</b>	Note: Schedule for all GE courses to be verified.	

**Total Units 3**

Semester 4	Course Code	Course	Units	Notes	Notes for Part-time students
Program Course	ARC 262	<b>CAD for Architecture II</b>	<b>3</b>	Prerequisite: ARC 261 - Corequisite: ARC 282.	
Program Course	ARC 282	<b>Computer-Aided Design for Architecture II Lab</b>	<b>1</b>	Corequisite: ARC 262.	
Program Course	ARC 272	<b>Architectural Drawing IV</b>	<b>3</b>	Prerequisite: ARC 271.	
GE Course	Area C / PHILOSOPHY 1	<b>Introduction to Philosophy</b>	<b>3</b>	Note: Schedule for all GE courses to be verified.	

**Total Units 10**

Intersession	Course Code	Course	Units	Notes	Notes for Part-time students
GE Course	Area B1 / POL SCI 1	<b>The Government of the United States</b>	<b>3</b>	Note: Schedule for all GE courses to be verified.	

**Total Units 3**

#### **Degree Path and Requirements:**

Associate in Arts Degree, Architectural Computer Aided Design. Requirements for an AA include: 34 "Architectural Computer-Aided Design" Certificate units, 6-7 units from an array of recommended additional Architectural courses, and 21 units from the LACCD General Education Plan.

#### **Department Advising Notes:**

This map was created for students wishing to pursue a 2-year vocational degree, with an emphasis in Digital skills (Auto-CAD, Revit, 3-D Studio Max, Sketch-up, Rhino, et al). The Department provides another AA Degree in Architectural Drafting, which focuses on Technology and construction documentation. It is recommended to review the course map and the course descriptions found in the College General Catalog to determine student interest and associated pathway. During the process of the AA curriculum, a number of Certificate of Achievements and Skills Certificates are achieved. These certificates add value to the AA and assist with the Professional Portfolio and employment opportunities.

Note: This AA Map and Certificates 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 two Associated Degree Programs, this 2-year vocational degree, is an emphasis in Digital skills. This program provides introductory and advanced skill preparation for the workplace in the Architecture 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. There are many other industries that utilize the skills from a 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.

#### **Youtube Videos**

**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.

**Milestones**

Courses or specific requirement designed to keep students on course to complete.

**Core Course**

A course that all declared majors must complete in order to achieve a degree or certificate.

**Prerequisite Course**

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

Check the online catalog at [elac.edu](http://elac.edu) for the latest and most accurate information.

**Contact**

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