# Arts, Media, and Technology Career and Academic Pathways (CAPs) Program Map: Associate in Arts Degree for Architectural Computer Aided Design

| Total number of units: 68 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 110 | **Intro to Architecture** | **1** | To be taken during prior Summer Intersession. | |
| Program Course | ARC 172 | **Architectural Drawing I** | **3** | Prerequisite: ARC 170 or Consent of Instructor. | |
| Program Course | ENV 101 | **Foundations of Design I** | **3** | | |
| Program Course | ARC 185 | **Directed Study Architecture - Elective** | **1** | Can be taken any semester upon Chair's approval. | |
| GE Course | MATH 125 | **Intermediate Algebra** | **5** | 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 161 | **Intro to Computer-Aided Architectural Design** | **2** | Corequisite: ARC 180. | |
| Program Course | ARC 180 | **Computer-Aided Architectural Lab** | **1** | Corequisite: ARC 161. | |
| | | **Total Units** | **3** | | |

| 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. | |
| GE Course | ENGLISH 101 | **College Reading and Composition I** | **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 | **3D Modeling for Designers** | **3** | | |
| GE Course | HEALTH 011 | **Principles of Healthful Living** | **3** | Note: Schedule for all GE courses to be verified. | |
| | | **Total Units** | **6** | | |

| Session 3 | Course Code | Course | Units | Notes | Notes for Part-time students |
|---|---|---|---|---|---|
| Program Course | ARC 164 | **Design Software for Architecture** | **3** | | |
| 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. | |

| Session 3 | Course Code | Course | Units | Notes | Notes for Part-time students |
|---|---|---|---|---|---|
| Program Course | ARC 280 | **Computer-Aided Design for Architecture I Lab** | **1** | Corequisite: ARC 261. | |

**Total Units    12**

| Intersession | Course Code | Course | Units | Notes | Notes for Part-time students |
|---|---|---|---|---|---|
| GE Course | PHYSICS 011 | **Introductory Physics** | **4** | Note: Schedule for all GE courses to be verified. | |

**Total Units    4**

| Session 4 | Course Code | Course | Units | Notes | Notes for Part-time students |
|---|---|---|---|---|---|
| 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. | |
| Program Course | ENV 102 | **Foundations of Design II** | **3** | Prerequisite: ENV 101 - Advisory: ARC 170. | |
| GE Course | ARC 130 | **History of Architecture I** | **2** | Note: Schedule for all GE courses to be verified. | |
| GE Course | ARC 131 | **History of Architecture II** | **2** | Note: Schedule for all GE courses to be verified. | |

**Total Units    14**

| Intersession | Course Code | Course | Units | Notes | Notes for Part-time students |
|---|---|---|---|---|---|
| GE Course | POL SCI 001 | **The Government of the United States** | **3** | 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.

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 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 discriptions found in the College General Catalog to determine student intrest and associated pathway. During the process of the AA curriculum, a number of Certiciate of Achivements and Skills Certifcates are achieved. These certiciates 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 Unversity 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 Universirty degrees as well as years of industry expereince.

**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 choosen area of discipline, this currciulum provides foundational 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. Ther 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.

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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