



Science, Technology, Engineering, and Mathematics Career and Academic Pathways (CAPs) Program Map: Associate in Arts Degree for Computer Science Information Technology

Total number of units: 63 units

Top Code/Academic Plan: 0702.00

Updated on March 9, 2022

Semester 1	Course Code	Course	Units	Notes	Advising Notes
Program Course	CIS 101	Introduction to Computers and Their Uses	3	Prereq. Formerly CO SCI 201. Many sections offered every semester including intersessions.	Offered online and face to face. Offered every semester including intersessions.
Program Course	CS 111	Programming in Visual Basic	3	Formerly CO SCI 208. Offered every semester including intersessions.	Offered every semester including intersessions.
GE Course	ENGLISH 101	LACCD Gen Ed D1: College Reading and Composition I	3	Recommendation: Meet with Academic Advisor. This course has sections that are part of the Honors Program. Check the current catalog for the section number(s). To apply for admission to the Honors Program, please visit the ELAC Counseling Center. For additional information about the Honors Program, please visit the ELAC Honors Program website or contact Dr. Bermudez at bermudn@elac.edu .	This course may have sections that include a low cost (LCT) or no cost textbook (ZTC). Check the current catalog for the section number(s). You can search for classes in the ELAC and LACCD Schedule of Classes under "Class Search Type" as "Zero Textbook Cost" or "Low-Cost Textbook Classes."
GE Course	MATH 125/125S	LACCD Gen Ed D2: Intermediate Algebra	5	Recommendation: Meet with Academic Advisor.	This course may have sections that include a low cost (LCT) or no cost textbook (ZTC). Check the current catalog for the section number(s). You can search for classes in the ELAC and LACCD Schedule of Classes under "Class Search Type" as "Zero Textbook Cost" or "Low-Cost Textbook Classes."

Total Units 14

Intersession	Course Code	Course	Units	Notes	Advising Notes
Program Course	CIS 111	Supporting Windows	3	Formerly CO SCI 234. Offered every spring and fall. This course has a prerequisite of CIS 101.	Offered every semester and some intersessions.
GE Course	LACCD Gen Ed B1 Section		3	Recommendation: Meet with Academic Advisor.	Offered every semester and some intersessions.

Total Units 6

Semester 2	Course Code	Course	Units	Notes	Advising Notes
Program Course	CIS 120	Introduction to Databases	3	Formerly CO SCI 233. Offered every spring and fall. This course has a prerequisite of CIS 101.	Offered every semester.
Program Course	CIS 123	Microcomputers in Business	3	Formerly CO SCI 200. Offered every spring and fall. This course has a prerequisite of CIS 101.	Offered every semester and some intersessions.
Program Course	CIS 210	Introduction to Computer Networking	3	Formerly CO SCI 237. Offered every spring and fall.	Offered every semester and some intersessions.
GE Course	LACCD GEN ED Section A		4	Recommendation: Meet with Academic Advisor.	

Total Units 13

Intersession	Course Code	Course	Units	Notes	Advising Notes
Program Course	CIS 146	Introduction to Web Page Design	3	Formerly CO SCI 257.	Offered every spring and Fall semesters.
GE Course	LACCD GEN ED Section C		3	Recommendation: Meet with Academic Advisor.	

Total Units 6

Semester 3	Course Code	Course	Units	Notes	Advising Notes
Program Course	CS 116	Programming in C++	3	Formerly CO SCI 243. Offered every spring and fall. This course has pre-requisite CIS 101.	Offered every semester and some intersessions.
Program Course	CS 113	Programming in Java	3	Formerly CO SCI 290. Offered every spring and fall.	Offered every semester and some intersessions.
GE Course	LACCD GEN ED Section E1		3	Recommendation: Meet with Academic Advisor.	
GE Course	LACCD GEN ED Section B2		3	Recommendation: Meet with Academic Advisor.	

Total Units 12

Semester 4	Course Code	Course	Units	Notes	Advising Notes
Program Course	CS 130	Introduction to Computer Architecture and Organization	3	Formerly CO SCI 216. Offered every fall. It has pre-requisite CS 116.	Offered every semester.
Program Course	Choose 3 course from 14 elective courses. Three electives are required for his degree.		9	Students can choose between CIS 162, CIS 192, CIS 193, CS 119, CIS 222, CS 131, CIS 147, CS 115, CS 152, CS 112, CIS 194, CIS 195, CS 211, CS 213, CS 216.	Some are offered every semester and intercession.

Total Units 12

Degree Path and Requirements:

This degree can be accomplished in 2 years. Students can take classes every term. Several of the CS and CIS courses are CSU and CU transferrable. 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](#).

Department Advising Notes:

Transfer Students: It is recommended that you meet with an academic advisor. The requirements necessary to transfer to a private university, California State (CSU), or University of California (UC), can vary from college to college. For example: Taking the following courses will prepare you to major in Computer Science at any UC campus: <https://admission.universityofcalifornia.edu/apply-now.html>

Program Description

This program is designed to prepare students to gain experience in the computer field. It gives students entry-level job skills and the opportunity to transfer to a four-year university. Computer Science related jobs are in high demand in every industry.

Career and Transfer Opportunities

Transfer to a 4 year college as a Engineering Technology major. Possible careers: Mechanical Engineering Technician.

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.

Youtube Videos

[Computer and Information Technology Occupations](#)

[Web Developer](#)

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

Frank Aguirre
 Department Chair
aguirrfj@elac.edu
 323-260-8147