



# Science, Technology, Engineering, and Mathematics Career and Academic Pathways (CAPs) Program Map: Certificate of Achievement for Cloud Computing

Total number of units: 18 units

Top Code/Academic Plan: 0708.00

Updated on July 7, 2021

| Semester 1     | Course Code | Course  | Units | Notes  | Advising Notes                   |
|----------------|-------------|---|-------|--|----------------------------------|
| Program Course | CIS 101     | <b>Introduction to Computers and Their Uses</b> | 3     | Formerly CO SCI 201. Many sections every semester including intersessions. Pre-requisite for CS 119. | Offered online and face to face. |
| Program Course | CIS 192     | <b>Introduction to Cloud Computing</b>          | 3     | Formerly CO SCI 276. Many sections offered every semester including intersessions.                   | Offered online and face to face. |

**Total Units 6**

| Intersession   | Course Code | Course  | Units | Notes   | Advising Notes                         |
|----------------|-------------|---|-------|---|--|
| Program Course | CIS 193     | <b>Database Essentials in Amazon Web Services</b> | 3     | Formerly CO SCI 277. Offered every spring and fall. | This course has pre-requisite CIS 192. |

**Total Units 3**

| Semester 2     | Course Code | Course   | Units | Notes   | Advising Notes                         |
|----------------|-------------|--|-------|---|--|
| Program Course | CIS 194     | <b>Computer Engines in Amazon Web Services</b> | 3     | Formerly CO SCI 278. Offered every spring and fall. | This course has pre-requisite CIS 192. |
| Program Course | CIS 195     | <b>Security in Amazon Web Services</b>         | 3     | Formerly CO SCI 279. Offered every spring and fall. | This course has pre-requisite CIS 192. |

**Total Units 6**

| Intersession   | Course Code | Course  | Units | Notes                           | Advising Notes                                    |
|----------------|-------------|---|-------|---------------------------------|---|
| Program Course |             | <b>Select 1 course from the following electives</b> | 3     | CS 119, CS 115, CS 152, CS 113. | Recommend to take Programming in Python (CS 119). |

**Total Units 3**

## Degree Path and Requirements:

Cloud computing is now a critical facet of the new-age technology stack and one of the fastest growing technology industries. See this [article](#) from U.S. Bureau of Labor Statistics.

On completion, students can obtain cloud certificate of achievement and can seek Amazon's cloud certifications.

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:

Cloud computing careers are in very high demand and are an integral part of business industry.

## Program Description

The Certificate of Achievement provides students with a solid foundation of cloud computing technologies and provides them with the understanding required to effectively evaluate and assess the business and technical benefits of cloud computing and cloud applications. Students analyze a variety of cloud services (storage, servers, and software applications) and cloud providers. The curriculum also assesses cloud careers and discusses industry demand for cloud skills.

## Career and Transfer Opportunities

Visit the [Transfer Center](#) for transfer and guaranteed transfer information, which varies based on transfer college. Make an appointment with [a counselor](#) for transfer information. Students can visit [Career and Job Services](#) or [Career Coach](#) 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

[Cloud Computing Job Roles & Computing Jobs And Salary](#)

## 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-requisite sites needed, etc.

## 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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