

The Geographic Information Science (GIS) credit certificate is offered by the Department of Geosciences and Environment at California State University, Los Angeles. This program provides students with a critical foundation in geographical mapping theory, up-to-date technology in spatial analysis tools and programming skills, and working knowledge of data management and big data applications in GIS. This certificate program offers students a convenient pathway to acquiring a recognized credential for GIS competency or to update skills in the rapidly advancing field of GIS. This certificate program is suitable for students who have completed an undergraduate degree in any field.

A total of 12 semester units in the following courses are required for the certificate. Refer to the [Graduate and Post-Baccalaureate Studies: General Information](#) chapter of this catalog for general regulations governing all certificate programs.

#### Required Course (3 units)

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- GEOG 3690 - Fundamentals of Geographic Information Systems (3 units)
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#### Electives (9 units, choose one from each category)

##### Analysis and Modeling

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- GEOG 4690 – Spatial Analysis and GIS modeling (3 units)
  - GEOG 4700 – Programming in GIS (3 units)
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##### Methods and Techniques

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- GEOG 4660 – Remote Sensing (3 units)
  - GEOG 4710 – GIS Database Management (3 units)
  - GEOG 5600 – Seminar: Methods and Techniques in Geography (3 units)
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##### Application

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- GEOG 4620 – Geographic Information Systems Applications: Various topics (3 units)
  - GEOG 4680 – Digital Cartography (3 units)
  - GEOG 5980 – Graduate Directed Study (3 units)
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Policy: according to the CSULA certificate policy, students are allowed to transfer up to 3 credit units (25%) from another university. Thus one course taken within five years of their starting date for this certificate program may be transferred into this program.

CALIFORNIA STATE UNIVERSITY, LOS ANGELES

Semester Plan

CREDIT CERTIFICATE IN GEOGRAPHIC INFORMATION SYSTEMS

Name \_\_\_\_\_ ID \_\_\_\_\_ Phone \_\_\_\_\_

Date \_\_\_\_\_

Address \_\_\_\_\_ City \_\_\_\_\_ Zip code \_\_\_\_\_

Adviser \_\_\_\_\_ Expected Completion Date \_\_\_\_\_

Und. Major \_\_\_\_\_ University \_\_\_\_\_ GPA \_\_\_\_\_

Grad. Major \_\_\_\_\_ University \_\_\_\_\_ Major Adviser \_\_\_\_\_

12 Units: Required GEOG 3690 and other three 400 level GIS-related courses.

|  | Institution | Course | Sem/Yr. | Grade |
|--|-------------|--------|---------|-------|
| GEOG 3690 Fundamentals of Geographic Information Systems (3) |             |        |         |       |
| Electives:   |             |        |         |       |
|  |             |        |         |       |
|  |             |        |         |       |
|  |             |        |         |       |
|  |             |        |         |       |
|  |             |        |         |       |

(Signatures)

Student \_\_\_\_\_ Date \_\_\_\_\_

Adviser \_\_\_\_\_ Date \_\_\_\_\_

Department Chair \_\_\_\_\_ Date \_\_\_\_\_

CALIFORNIA STATE UNIVERSITY, LOS ANGELES

Quarter Plan

CREDIT CERTIFICATE IN GEOGRAPHIC INFORMATION SYSTEMS

Name \_\_\_\_\_ ID \_\_\_\_\_ Phone \_\_\_\_\_

Date \_\_\_\_\_

Address \_\_\_\_\_, City \_\_\_\_\_, Zip code \_\_\_\_\_

Adviser \_\_\_\_\_, Expected Completion Date \_\_\_\_\_

Und. Major \_\_\_\_\_ University \_\_\_\_\_, GPA \_\_\_\_\_

Grad. Major \_\_\_\_\_ University \_\_\_\_\_ Major Adviser \_\_\_\_\_

16 Units (one GEOG 369 and other three 400 level GIS-related courses)

|  | Institution | Course | Qtr/Year | Grade |
|--|-------------|--------|----------|-------|
| GEOG 369 Fundamentals of Geographic Information Systems (4)              |             |        |          |       |
| GEOG 463 Applications in Urban Planning (4)                              |             |        |          |       |
| GEOG 464 Applications in Political Science (also listed as POLS 464) (4) |             |        |          |       |
| GEOG 465 Applications in Environmental Studies                           |             |        |          |       |
|  |             |        |          |       |
|  |             |        |          |       |
|  |             |        |          |       |

(Signatures)

Student \_\_\_\_\_ Date \_\_\_\_\_

Adviser \_\_\_\_\_ Date \_\_\_\_\_

Department Chair \_\_\_\_\_ Date \_\_\_\_\_