

Science, Technology, Engineering, and Mathematics Career and Academic Pathways (CAPs) Program Map: Skills Certificate for 3D Mapping for GIS Applications

Total number of units: 7 units			Top Code/Academic Plan: 0957.30		Updated on September 20, 2021
Fall Semester	Course Code	Course	Units	Notes	Advising Notes
Program Course	ENG SUP 121	Land Surveying I	3	Offered every fall semester and is offered using a hybrid schedule (online lecture and face to face field work). This course also prepares you for the FE, FS, PE and PLS State of CA examination. Course offers several field activities and software demonstrations. Prerequisite includes MATH 241 (trigonometry); can be waived if student has field and office experience.	This course is scheduled during the late afternoon to allow students who are currently employed to complete the course after work hours.
Program Course	GEOG 025	Introduction to GIS and Lab	4	No Prerequisites. This course is college transferable at the UC/CSU level. Students learn hands-on experience with geospatial concepts, GIS functionalities, and mapping techniques.	This course is being taught online.

Total Units 7

Degree Path and Requirements:

Skills Certificate requirements is 7 units. Note that the prerequisite course for ENG SUP 121 is MATH 241. This can be waived if a student has field and office experience.

Department Advising Notes:

Contact Mr. Humberto A. Gallegos for further information regarding transfer requirements for an academic educational plan in geospatial engineering and technologies and information regarding career technician career pathways. In addition, please set up an appointment with a <u>STEM counselor</u> to obtain further information regarding the General Education requirements to transfer to schools with a geospatial engineering and technologies program.

Program Description

The Geo-Spatial Engineering & Technologies (GSET) mission is to enhance student's hands on skill sets, networking opportunities, and offer advanced forms of training regarding field equipment and software used in land development and research-oriented projects in civil and geomatics engineering and technologies. GSET offers several certificates of achievements, skill sets, and associate of science degrees in land surveying, geospatial engineering and technologies, and flood mapping. GSET is also structured to offer articulated courses in civil engineering.

Career and Transfer Opportunities

Please refer to the careers videos using the department of labor's occupational titles for the architecture and engineering sector.

In addition, you can utilize ELAC's career coach website to discover majors and in-demand careers and education based on your interests.

Youtube Videos

GSET's marking video

E&T's video collection (motivational, lessons learned, for entrepreneurs, calculator tips and tricks, and others)

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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