Guided Pathways: Redesigning ELAC

STEM Career and Academic Pathways
Program Map: Certificate of Achievement for Engineering Graphics

Total number of units: 16 units	Top Code/Academic Plan: 0953/946100	Updated on June 5, 2020

Semester 1	Course Code	Course	Units	Notes	Notes for Part-time students
Program Course	EGD TEK 102	**Engineering Graphics with Introduction to GD&T and 2-D CAD**	3		Typically offered in the morning and afternoon session.
Program Course	EGD TEK 111	**2-D Computer - Aided Drafting with AutoCAD**	3	The prerequisite course is EGK TEK 102	Typically offered in Summer and Winter sessions.
Program Course	EGD TEK 121	**3-D Computer - Aided Drafting with SolidWorks**	2	The prerequisite course is EGK TEK 102	Typically offered in Summer and Winter sessions.

Total Units   8

Semester 2	Course Code	Course	Units	Notes	Notes for Part-time students
Program Course	EGD TEK 221	**CAD - Advanced Applications 3-D**	2		Check Availability: Mostly Offered Saturdays
Program Course	IND TEK 103	**Technical Writing and Communications**	2		Check Availability: Mostly Offered Mid Afternoon.
Program Course	IND TEK 104	**Industrial Print Reading**	2		Check Availability: Mostly Offered Mid Afternoon.
Program Course	IND TEK 106	**Shop Math and Measurements**	2		Check Availability: Mostly Offered Mid Afternoon.

Total Units   8

Degree Path and Requirements:

Certificate of Achievement - Engineering Graphics.

Department Advising Notes:

The Engineering Department suggests students to seek academic and career advisement in order to develop a personalized course completion plan. In addition to the skill set, students will complete 4 more courses (8 units) to fulfill the 16 units requirement for the Certificate of Achievement in Engineering Graphics.

Program Description

The Engineering and Technologies Department offers a CAD program leading to a Certificate of Achievement that may enhance employment or promotion within industry,

which is pursuable on a part time or full time basis. This certificate program prepares the student for an entry-level employment in the field of Engineering Graphics Technology (CAD) within the industry. Specialization during the coursework is possible in such fields as civil, electrical, mechanical and structural engineering

Career and Transfer Opportunities

Graphics engineers create integrated graphics and visual effects systems that are used in the design and development of software applications, such as video games and operating systems. In terms of occupational focus, they are most closely associated with computer hardware engineers and software developers.

Graphics Engineer: Job Description, Duties and Requirements: https://www.onetonline.org/link/summary/17-3013.00

Youtube Videos

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.

Milestones

Courses or specific requirement designed to keep students on course to complete.

Core Course

A course that all declared majors must complete in order to achieve a degree or certificate.

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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