Science, Technology, Engineering, and Mathematics
Career and Academic Pathways (CAPs)
Program Map: Skills Certificate for Engineering Graphics

Total number of units: 8 units	Top Code/Academic Plan: 0953.00/0946.10	Updated on 9/30/2021

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

Degree Path and Requirements:

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:

We recommend that students meet with an academic counselor as well as with a career counselor before deciding on which elective courses to take for this degree. Please take note of the prerequisite courses that are requried for the courses in this degree.

Program Description

The Engineering and Technologies Department offers an Engineering Graphics & Design Technology program leading to a skill certificate in Engineering Graphics, which includes instruction in both 2-D and 3-D Computer Aided Drafting software courses. The skill set is achievable in one semester with the completion of three courses (8 units). Many students take advantage of the value of this skill set by working in industry while continuing their education leading to a Certificate of Achievement.

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. Job Description, Duties and Requirements for Graphics Engineer cab be found in here.

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

You Belong at East Los Angeles College

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.

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