



## CURRICULUM GUIDE 2012-2013

### ENGINEERING

#### Certificate of Accomplishment in Engineering

#### Requirements for Certificate of Accomplishment:

- a) Complete satisfactorily the courses listed for the particular certificate.
- b) Complete at least 50% of the required units at Ohlone College.
- c) Maintain a 2.0 grade point average.

### ENGINEERING

This certificate demonstrates that students have completed classes that serve as a beginning foundation for a career in engineering. These courses emphasize the application of scientific and mathematical principles to solving practical problems.

#### Student Learning Outcomes

1. Employ general principles and proper hands-on technical skills in problem-solving.
2. Conduct engineering technology lab activities, use laboratory materials properly and safely, carefully record all data, and describe the results clearly for others.
3. Participate effectively as team members in group projects: working cooperatively with others, accepting diverse views, encouraging active participation of others, dealing productively with conflict, and taking leadership roles as the need arises to accomplish the group's objective.
4. Demonstrate the ability to use modern engineering instruments and tools necessary for engineering practice of an engineering technologist.

MATH-104	Differential Equations	5
PHYS-141	Electricity and Magnetism	<u>4</u>
		9

Choose one course from the following:

ENGI-120	Engineering Mechanics – Statics OR	3
ENGI-130	Electric Circuit Analysis OR	(4)
ENGI-140	Materials Engineering	<u>(4)</u>
		12-13