



**CURRICULUM GUIDE  
2019-2020**

**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 courses 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

Complete one of the following courses:

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