



## CURRICULUM GUIDE 2013-2014

### ENGINEERING/MANUFACTURING TECHNICIAN

Certificate of Accomplishment in Engineering/Manufacturing Technician

#### 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/MANUFACTURING TECHNICIAN

This certificate prepares students for a career as a technician in a variety of manufacturing and technical capacities, including electronics assembly, QA/QC, construction, medical devices, energy/environmental industry (i.e., solar energy), semi conductor, computer manufacturing, computer networking, general manufacturing, biotechnology automation, engineering consulting, telecommunications, etc.

#### Student Learning Outcomes

1. Describe the role of an engineer; discuss the application of GMP and GLP in bio-manufacturing and other technical fields.
2. Demonstrate proper clean room protocols.
3. Demonstrate the use of basic tools; recommend appropriate procedures to address equipment failure; interpret blueprints; apply principles of electricity and electronics appropriately.
4. Compare and contrast properties of materials such as metals, polymers, and ceramics; compare and contrast the mechanical, electrical, thermal, magnetic, and optical properties of metals, polymers, and ceramics.

BIOT-113	GMP/GLP	1
BIOT-119	Clean Room Operations	.5
CAOT-166	2D Drafting with AutoCAD	3
CHMT-102	Chemical Safety and Hygiene	1
CNET-105	PC Hardware and Software	4
ENGI-101	Introduction to Engineering	3
ETEC-106	Electronics for Technology	3
ETEC-107	Properties of Materials	<u>.5</u>
		16
Recommended Course		
MATH-151	Algebra I	(5)