



## CURRICULUM GUIDE 2014-2015

### PHYSICS: INTRODUCTORY

Certificate of Accomplishment in Physics: Introductory

#### 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.

#### PHYSICS: INTRODUCTORY

This certificate provides students with a solid foundation in the general principles of physics, as well as experience with a wide variety of mechanical and electrical measurement techniques. In addition, students will gain a deeper and concrete understanding of the properties of materials and matter in the solid, liquid, and gaseous state and of the experimental processes involved in the measurement and analysis of these properties.

This certificate presents students with material that forms the necessary basis for continued study in many fields of science, in particular the biosciences and the earth and environmental sciences. The certificate also prepares students for paraprofessional employment in the form of research internships with various city, county, state, and private agencies and various technician positions in the fields of electrical and environmental technology.

#### Student Learning Outcomes

1. Apply the general principles of physics to a variety of problems.
2. Demonstrate appropriate mechanical and electrical measurement techniques in scientific applications.
3. Compare and contrast the properties of materials and matter in the solid, liquid, and gaseous state.

BIOT-122	Introduction to Nanotechnology OR	3
PHYS-108	Survey of Physics	(3)
PHYS-120	Introduction to Physics I	4
PHYS-121	Introduction to Physics II	4
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