

### PHYSICS DEPARTMENT

Professors: Scott (Chairman), S. Brown, Eliason, Shacklett

Associate Professors: Donaldson, Shockley

Assistant Professor: Dews, Oden, Zender

Part-time: Hilton

The Physics Department is organized and developed to offer scientific programs leading to various degrees in physics, including the bachelor of arts, bachelor of science, master of arts, and master of science. The programs are arranged to assist in meeting the need for qualified teachers and scientifically trained personnel brought about by the increasing applications of physics to industries, communications, aviation, engineering, national defense and particularly to the research which develops these fields.

Five of the California State Colleges, including Fresno State College, cooperate in the management of the Moss Landing Marine Laboratories on Monterey Bay, an establishment which offers regular course work and opportunities for research which are applicable to graduate and undergraduate programs. Consult the chairman of the Physics and Biology Departments. See *Special Programs—Moss Landing Marine Laboratories*; for course descriptions see *Biology Department*.

#### HIGH SCHOOL PREPARATION

The high school preparation for majors in the Physics Department should include: algebra (2 years), plane and solid geometry, trigonometry, and chemistry or physics; French, German, or Russian (2 years or more); and mechanical drawing (recommended).

#### MAJORS

For the bachelor of arts degree a major in physics consists of 36 units of which 24 must be upper division. For the bachelor of science degree, a major in physics consists of 43 units as listed below. For general degree regulations see *Degrees and Credentials*.

#### Foreign Language Requirement

Two years of satisfactory collegiate study (or equivalent) in French, German, or Russian are required for majors in physics. See the general statement under *Degrees and Credentials—Foreign Language Requirement* for equivalents and alternative ways of meeting the requirement. Any student planning advanced study is advised also to meet the foreign language requirement of the school he plans to attend.

#### BACHELOR OF ARTS DEGREE IN PHYSICS

	<i>Units</i>
Physics Major .....	36
Physics 4A-B-C, 102, 105A, 107A, 130A-B (25 un)	
Upper division electives in physics (11 un)	
Additional Requirements .....	26
Math 75, 76, 77, 81, Chem 1A-B	
Foreign Language * .....	14
Completion of General Education and Electives .....	48
	124

\* Courses taken in high school may reduce this requirement.