

BIOLOGY DEPARTMENT

FACULTY

Bert A. Tribbey, *Department Chairman*

Gina Arce ■ Donald J. Burdick ■ Gregor M. Cailliet ■ John H. Carr ■ S. Fai Cheuk ■ David L. Cheshmore ■ Corinne Clay ■ Ronald L. Evans ■ David E. Grubbs ■ Richard Haas ■ Wallace M. Harmon ■ Howard L. Latimer ■ Thomas E. Mallory ■ Jerome Mangan ■ J. Robert McClintic ■ Ronald W. Meyer ■ C. Joanne Pigg ■ Frederick E. Schreiber ■ Philip N. Smith ■ Richard A. Spieler ■ Arthur E. Staebler ■ Keith M. Standing ■ Vivian A. Vidoli ■ John H. Weiler ■ Lorraine Wiley ■ Keith H. Woodwick

The Biology Department provides a diversified but integrated program encompassing the following fields: biological science, botany, environmental biology, functional biology, microbiology, and zoology. Courses are listed under the headings of biology, botany, entomology, microbiology, physiology, and zoology. The program provides suitable preparation for a wide variety of careers in professional areas such as medicine, nursing, dentistry, veterinary medicine, medical technology, and many other allied health sciences fields, for teaching, for work with various governmental agencies and private companies, and as preparation for advanced degrees and careers in research.

In addition to the general education offerings, the department offers the biology major and minor for the bachelor of arts degree; the bachelor of science degree in microbiology for students planning careers in microbiology and laboratory technology; and master of arts degrees in biology and microbiology.

Faculty advising plays a major role in the department to assist students in preparing for the numerous careers possible in biology. Students should obtain faculty advisors as early as possible in their academic careers and consult with them at least once each semester for assistance in selecting courses and programs that will prepare them for their vocational objectives. Consult the department chairman for advisor assignment.

To assure satisfactory progress, students intending to transfer from community colleges should attempt to complete the following requirements prior to transferring: general education; constitution and government; and the required lower division courses in biology and other fields for their selected departmental program.

Six of The California State University and Colleges, including California State University, Fresno, 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. For information, consult the department chairman. See *Special Programs—Moss Landing Marine Laboratories*; course descriptions follow Zoology courses.

PREPROFESSIONAL PREPARATION

A major in the biological sciences is often used as preparation for other professions. For preprofessional programs in dentistry, medicine, and pharmacy, see the *Preprofessional Preparation* section and consult an advisor in the biology department.

ADVANCED PLACEMENT

See *Advanced Placement—Advanced Placement*

BACHELOR OF ARTS DEGREE IN BIOLOGY

The Biology Department offers a major for the bachelor of arts degree in biology, with options in biological science, botany, environmental biology, functional biology, microbiology, and zoology. Core courses required in all options provide the concepts, terminology, and experiences necessary to handle specialized biological material covered in advanced courses in each option. Selection of options, and of course patterns within options, will provide the required degree of specialization for entering graduate schools and research, professional schools, and vocations requiring a biological background. Students are encouraged to work closely with their faculty advisor in the selection of electives and course alternatives that will best prepare them for their future objectives. The Biological Science option is recommended for students planning to enter secondary teaching and other careers requiring a broad coverage of biology; the Environmental Biology option is suitable for careers in fish and game management, other occupations requiring a predominantly