Spring Quarter Program
A full quarter (15 units) of undergraduate course work in marine biology is available each spring quarter at the Bodega Marine Laboratory, located in Bodega Bay, California. Course offerings include lecture and laboratory instruction in the development of cell and developmental biology and physiological adaptation of marine organisms, and population biology and ecology; a weekly colloquium; and an intensive individual research experience under the direction of laboratory faculty. (Biological Sciences courses 122, 122P, 123; Neurobiology, Physiology, and Behavior 141, 141P.) This is a 15 unit program and course offerings and instructors may vary from year to year. Applications are due January 31.

For more course detail, see full description under appropriate academic department listing or http://bml.ucdavis.edu/.

Summer Session Courses
This integrated program offers students a multidisciplinary understanding of coastal ecosystems through intensive, hands-on land and field courses taught at Bodega Marine Laboratory. Applications are due April 15.

For more course detail, see full description under appropriate academic department listing or http://bml.ucdavis.edu/.

Course offerings and instructors may vary from year to year.

Bodega Marine Laboratory spring and summer programs are residential, with students housed on the laboratory grounds. Participants are assessed a room and board fee in addition to standard campus registration fees. Applications and consent of instructors are required.

Additional information is available from the Biology Academic Success Center, in 1023 Sciences Laboratory Building, or directly from: Bodega Marine Laboratory P.O. Box 247 Bodega Bay, CA 94923 707-875-2211; http://bml.ucdavis.edu/.

Botany
See Plant Biology, on page 509; and Plant Biology (A Graduate Group), on page 511.

Business Management
See Managerial Economics, on page 415, for undergraduate study; and Management, Graduate School of, on page 410.

Cantonese
See Asian American Studies, on page 182.

Cell Biology
See Molecular and Cellular Biology, on page 463.

Cell and Developmental Biology (A Graduate Group)
The Cell and Developmental Biology program has merged with the Biochemistry and Molecular Biology program to form Biochemistry, Molecular, Cellular, and Developmental Biology (BMCD8); see Biochemistry, Molecular, Cellular, and Developmental Biology, on page 189.

Group Office. 2278 Life Sciences 530-752-9091; http://biosci3.ucdavis.edu/GradGroups/BMCD8/

Cell Biology and Human Anatomy
See Medicine, School of, on page 427.

Chemistry
(Class of Letters and Science)
Department Administration. For a complete list of department administration, see http://chemistry.ucdavis.edu/homepage/ department_administration.html

Department Office. Chemistry Building 530-752-8900; Fax 530-752-8995; http://chemistry.ucdavis.edu

Faculty
James Ames, Ph.D., Professor Shota Atsumi, Ph.D., Associate Professor Matthew F. Augustine, Ph.D., Professor Alan L. Batch, Ph.D., Professor Enosh Baldwin, Ph.D., Associate Professor Peter Beal, Ph.D., Professor Louise A. Berben, Ph.D., Associate Professor R. David Britt, Ph.D., Professor William Casey, Ph.D., Professor Julia Chamberlain, Ph.D., Lecturer PGSE Xi Chen, Ph.D., Professor Kyle Crabtree, Ph.D., Assistant Professor Stephen Cramer, Ph.D., Professor Sheila David, Ph.D., Professor Davide Donadio, Ph.D., Associate Professor Andrew J. Fisher, Ph.D., Professor Annaliese K. Franz, Ph.D., Associate Professor Jacquelyn Geryv Hague, Ph.D., Professor David Goodin, Ph.D., Professor Ozzan Gulazor, Ph.D., Lecturer PGSE Ting Guo, Ph.D., Professor Susan M. Kauzlarich, Ph.D., Professor Distinguished Graduate Mentoring Award Peter B. Kelly, Ph.D., Professor Kurill Kvasir, Ph.D., Assistant Professor Mark J. Kurth, Ph.D., Professor Donald P. Land, Ph.D., Professor Delmar Larsen, Ph.D., Professor Carlito B. Lebrilla, Ph.D., Professor Gang-Yu Liu, Ph.D., Professor C. William McCurdy, Ph.D., Professor Mark Mascia, Ph.D., Professor Alexandra Novototsky, Ph.D., Professor Cheuk-Yui Ng, Ph.D., Professor David Olson, Ph.D., Assistant Professor Frank Osterloh, Ph.D., Professor Phillip P. Power, FRS, Ph.D., Professor Neil E. Schore, Ph.D., Professor Academic Senate Distinguished Teaching Award Jared T. Shaw, Ph.D., Professor Justin Siegel, Ph.D., Assistant Professor Alexei P. Stuchebrukhov, Ph.D., Professor Dean Tantillo, Ph.D., Professor Academic Senate Distinguished Teaching Award

Preparatory Subject Matter:.............. 36-42
Chemistry 2A-2B-2C or 2AH-2BH-2CH ....... 15
Physics 7A-7B-7C or 9A-9B-9C .......... 12-15
Mathematics 1A-1B-1C or 17A-17B-17C ... 12-15
At least 11 additional upper division units in chemistry (except Chemistry 107A or 107B) or related areas, including one course with

Michael Toney, Ph.D., Professor
Lee-Ping Wang, Ph.D., Assistant Professor
Emeriti Faculty
Thomas L. Allen, Ph.D., Professor Emeritus W. Ronald Fawcett, Ph.D., Professor Emeritus William H. Fink, Ph.D., Professor Emeritus Edwin Friedrich, Ph.D., Professor Emeritus Hakon Hope, Cand. Reall., Professor Emeritus William M. Jackson, Ph.D., Professor Emeritus Gerd N. LaMar, Ph.D., Professor Emeritus Claude F. Meares, Ph.D., Professor Emeritus W. Kenneth Musker, Ph.D., Professor Emeritus Marilyn Olmstead, Ph.D., Professor Krishna P. Nambiar, Ph.D., Professor Emeritus Distinguished Graduate Mentoring Award Carl W. Schmid, Ph.D., Professor Emeritus James H. Swisshearth, Ph.D., Professor Emeritus Dino S. Tinti, Ph.D., Professor Emeritus Nancy S. True, Ph.D., Professor Emeritus George S. Zweifel, Sc.D., Professor Emeritus

Affiliated Faculty
Toby Allen, Ph.D., Associate Professor Giulia Galli, Ph.D., Adjunct Professor

The Major Programs
Chemistry studies the composition of matter, its structure, and the means by which it is converted from one form to another.

The Program. The Department of Chemistry offers several degree programs leading to the Bachelor of Arts and the Bachelor of Science. The curriculum leading to the B.A. degree offers a substantive program in chemistry while allowing students the freedom to take more courses in other disciplines and pursue a broad liberal arts education. Students who have a deeper interest in chemistry normally elect one of the several programs leading to the B.S. degree. The standard B.S. program, the only chemistry program accredited by the American Chemical Society, is appropriate for students who are interested in chemistry as a profession. The B.S. in Chemical Physics, the B.S. in Pharmaceutical Chemistry, and the two B.S. Applied Chemistry emphases are slightly less intense in chemistry, and draw on significant course materials from areas relevant to their particular focus but outside of a classical chemistry degree. Students following the A.B or one of the B.S. programs may consider taking advantage of the Education Abroad Program. Our minor adviser can assist students in planning a curriculum while abroad that assures regular progress in the major. A minor program in chemistry is also available.

Career Alternatives. Chemistry graduates with bachelor’s degrees are employed extensively throughout various industries in quality control, research and development, production supervision, technical marketing, and other areas. The types of industries employing these graduates include chemical, energy, pharmaceutical, genetic engineering, biotechnology, food and beverage, petroleum and petrochemical, paper and textile, electronics and computer, and environmental and regulatory agencies. The bachelor’s programs also provide chemistry graduates with the rigorous preparation needed for an advanced degree in chemistry and various professional schools in the health sciences.

Chemistry
A.B. Major Requirements:.............. UNITS
Preparatory Subject Matter:.............. 36-42
Chemistry 2A-2B-2C or 2AH-2BH-2CH ....... 15
Physics 7A-7B-7C or 9A-9B-9C .......... 12-15
Mathematics 1A-1B-1C or 17A-17B-17C ... 12-15
At least 11 additional upper division units in chemistry (except Chemistry 107A or 107B) or related areas, including one course with