Nutrition Science

(College of Agricultural and Environmental Sciences)

Faculty
See the Department of Nutrition, on page 454.

The Major Program
The study of nutrition encompasses all aspects of the consumption and utilization of food and its constituents. Key areas of study include: the biochemical reactions important to the utilization of nutrients and food constituents; the impact of diet on health and disease; and, nutrition-related policy and public health issues. The nutrition science major includes two options for studying these areas: nutritional biology and nutrition in public health.

The Program. Nutrition as it is taught on the Davis campus is a biological science and requires a complete background in chemistry and biology, along with calculus or physics (nutritional biology option) or economics (nutrition in public health option). These courses are generally completed during the first two years, and along with biochemistry, must be completed before most nutrition classes can be taken. During their junior and senior years, students in the nutritional biology option take additional course work in biochemistry, physiology, and toxicology. Students in the nutrition in public health option take additional course work in social and health-related sciences.

Career Alternatives. Both options are excellent preparation for professional or graduate training in medicine, public health, or other health sciences. The nutritional biology option also provides preparation for technical work in nutrition in the animal, food, and pharmaceutical industries. The nutrition in public health option prepares students for jobs in administrative, teaching, or public health/public service positions.

B.S. Major Requirements:

Preparatory Subject Matter ............... 63-66

| Nutrition 10 .................................... 3 | Plant Sciences 120 .......................... 4 |
| Sociology 46A or Psychology 41 ............... 4 | Sociology 146B or Psychology 41 .......................... 4 |

The remaining preparatory subject matter is based on which major option you choose.

Nutritional Biology option:

| Anthropology 2 or Sociology 1 or 3 .................. 4-5 | Mathematics 16A-16B .............................. 6 |
| Physics 1A-1B ..................................... 6 | Nutrition in Public Health option: |
| Anthropology 2 or Sociology 1 or 3 .................. 4-5 | Economics 1A-1B .................................. 8 |
| Psychology 1 ....................................... 4 | Biology 101 ........................................ 4 |

Deph Subject Matter ....................... 76-85

| Biological Sciences 101 .......................... 4 | Food Science and Technology 100A and 100B ............... 8 |
| Microbiology 101 ................................... 5 | Neurobiology, Physiology, and Behavior 101, 101L, 101NL ............... 8 |
| Nutrition 111AV, 111BV, 112, 116A ................... 11 | The remaining depth subject matter is based on which major option you chose when completing your preparatory courses. |
| Nutrition 104, 117, 117L, 117L ....................... 10 | Nutritional Biology option: |
| Molecular and Cellular Biology 120L-120L .. 6 | Neurobiology, Physiology, and Behavior 114 ............... 3 |
| Nutrition 104, 117 ................................... 10 | Nutrition Restricted Electives .................... 15-20 |

Selection of courses must be made in consultation with a faculty advisor prior to or upon reaching the 120 unit level:

Exercise Biology 110; Nutrition 99, 105, 114, 115, 116B, 118, 120AN, 120BN, 122, 123, 124, 127, 130, 190, 192, 199

Nutrition in Public Health: Animal Biology 102, 103 ............... 10

Exercise Biology 110 .................................. 3

Nutrition 118 ........................................... 4

Nutrition Restricted Electives .................... 15-20

Quarter Offered: I=Fall, II=Winter, III=Spring, IV=Summer; 2015-2016 offering in parentheses.
Pre-Fall 2011 General Education (GE): ARTHR=Arts and Humanities; SCIE=Science and Engineering; SOCSC=Social Sciences; Div=Dominant Diversity; Wrt=Writing Experience
Fall 2011 and on Revised General Education (GE): AN=Arts and Humanities; SE=Science and Engineering; SS=Social Sciences; ACH=American Cultures; DD=Dominant Diversity, OL=Oral Skills, GL=Quantitative, SL=Scientific, VL=Visual, WC=World Cultures; Wrt=Writing Experience

Oceanography

(College of Letters and Science)

Oceanography is the study of the earth’s oceans, investigating connections between geological, biological, chemical and physical processes in the marine realm, and the interactions between the Earth’s ocean/atmosphere system. The interdisciplinary minor in oceanography is for students with backgrounds in any of these fields, as well as those interested in marine policy and conservation. The curriculum reflects the integrative nature of oceanography, with core courses covering the major disciplines in oceanography and elective courses that allow students to cater the minor to their interests. The oceanography minor includes courses taught at the Davis campus and courses offered at Bodega Marine Laboratory.

The minor is sponsored by the Department of Earth and Planetary Sciences in 2119 Earth and Physical Sciences Building.

Minor Program Requirements:

Oceanography ...................................... 22-24

| Geology 150A/Environmental Science and Policy 150A .................. 4 | Geology 150B/Environmental Science and Policy 150B .................. 3 |
| Geology 150C/Environmental Science and Policy 150C .................. 4 | Environmental Science and Policy 152 .................. 3 |

An electives sequence, with one course from group (a) and one to two additional electives from either groups (a) or (b) ............... 9-10
(a) Geology 116N/Environmental Science and Policy 116N, Atmospheric Science 158, Wildlife, Fish, and Conservation Biology 120, 157, Environmental Toxicology 120, Evolution and Ecology 112, 115;
(b) Atmospheric Science 121A, 121B, Geology 108, 109, 152, Evolution and Ecology 106, 114, Environmental Science and Policy 124, Environmental Toxicology 127

Note. Courses Geology 150C/Environmental Science and Policy 150C, Environmental Science and Policy 124, 152, Environmental Toxicology 127, and Evolution and Ecology 106 and 114 are taught at Bodega Marine Laboratory.

Minor Adviser, T.M. Hill [Geology], 3115 Earth and Physical Sciences Building 530-752-0179

Ophthalmology

See Medicine, School of, on page 396.

Organizational Studies

See Sociology, on page 304.

Obstetrics and Gynecology

See Medicine, School of, on page 396.