BS NUTRITION

Program Learning Objectives
1. Graduates demonstrate critical thinking skills in addressing nutrition issues.
2. Graduates demonstrate the knowledge, ethics, and technical skills needed to succeed in nutrition-related fields and post-graduate studies.
3. Graduates demonstrate effective written and oral communication skills.
4. Graduates demonstrate the ability to work effectively as part of a problem-solving team.
5. Graduates demonstrate cultural competence interacting with diverse populations.

Program Educational Outcomes
• Graduates can apply the knowledge of nutrients and foods to meet the nutritional and health needs of individuals and groups throughout the life cycle.
• Graduates can apply the principles of social, physical and biological sciences to address human nutrition issues.

Degree Requirements and Curriculum
In addition to the program requirements listed on this page, students must also satisfy requirements outlined in more detail in the Minimum Requirements for Graduation (http://catalog.calpoly.edu/generalrequirementsbachelorsdegree/#generaleducationtext) section of this catalog, including:
- 60 units of upper division courses
- Graduation Writing Requirement (GWR)
- 2.0 GPA
- U.S. Cultural Pluralism (USCP)

Note: No major, support or concentration courses may be selected as credit/no credit.

MAJOR COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSN 101</td>
<td>Orientation to the Food Science and Nutrition Majors</td>
<td>1</td>
</tr>
<tr>
<td>FSN 121</td>
<td>Fundamentals of Food</td>
<td>4</td>
</tr>
<tr>
<td>FSN 210</td>
<td>Nutrition</td>
<td>4</td>
</tr>
<tr>
<td>FSN 230</td>
<td>Elements of Food Processing</td>
<td>4</td>
</tr>
<tr>
<td>FSN 250</td>
<td>Food and Nutrition: Customs and Culture (USCP) (D4)</td>
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</tr>
<tr>
<td>FSN 310</td>
<td>Maternal and Child Nutrition</td>
<td>4</td>
</tr>
<tr>
<td>FSN 315</td>
<td>Nutrition in Aging</td>
<td>4</td>
</tr>
<tr>
<td>FSN 328</td>
<td>Nutrient Metabolism I</td>
<td>8</td>
</tr>
<tr>
<td>&amp; FSN 329</td>
<td>and Nutrient Metabolism II</td>
<td></td>
</tr>
<tr>
<td>FSN 415</td>
<td>Nutrition Education and Communications</td>
<td>4</td>
</tr>
<tr>
<td>FSN 420</td>
<td>Critical Evaluation of Nutrition Research</td>
<td>4</td>
</tr>
<tr>
<td>FSN 461</td>
<td>Senior Project I</td>
<td>4</td>
</tr>
<tr>
<td>MCRO 221</td>
<td>Microbiology (B2 &amp; B4)</td>
<td>4</td>
</tr>
<tr>
<td>or MCRO 224</td>
<td>General Microbiology I</td>
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<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 127</td>
<td>General Chemistry for Agriculture and Life Science I (B3 &amp; B4)</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 128</td>
<td>General Chemistry for Agriculture and Life Science II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 312</td>
<td>Survey of Organic Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>or CHEM 216</td>
<td>Organic Chemistry I</td>
<td></td>
</tr>
<tr>
<td>CHEM 313</td>
<td>Survey of Biochemistry and Biotechnology</td>
<td>5</td>
</tr>
<tr>
<td>or CHEM 371</td>
<td>Biochemical Principles</td>
<td></td>
</tr>
<tr>
<td>ECON 201</td>
<td>Survey of Economics (D2)</td>
<td>4</td>
</tr>
<tr>
<td>MATH 118</td>
<td>Precalculus Algebra (B1)</td>
<td>3</td>
</tr>
<tr>
<td>STAT 218</td>
<td>Applied Statistics for the Life Sciences (B1)</td>
<td>4</td>
</tr>
<tr>
<td>BIO 161</td>
<td>Introduction to Cell and Molecular Biology</td>
<td>4</td>
</tr>
</tbody>
</table>

Concentration courses (see concentrations below) 49-50

GENERAL EDUCATION (GE)
(See GE program requirements below.) 48

FREE ELECTIVES
Free Electives 0-1

Total units 180

1. Required in Major; also satisfies GE.
2. Most Nutrition majors should take CHEM 312 and CHEM 313. Students choosing the Nutrition Science concentration may need to take CHEM 216 and CHEM 371, depending on their career goals and approved electives. Students selecting CHEM 216 must also take CHEM 217 and CHEM 218. See advisor.
3. MATH 116 and MATH 117 substitute.
4. Credit in FSN 470 with the topic “Senior Project: Nutrition for Sport and Exercise” (2 units) and credit in FSN 470 with the topic “Senior Project: Writing” (1 unit) may substitute for FSN 461.

Concentrations
• Applied Nutrition (http://catalog.calpoly.edu/collegesandprograms/collegeofagriculturefoodenvironmentalsciences/foodsciencenutrition/bsnutrition/appliednutritionconcentration)
• Nutrition and Food Industries (http://catalog.calpoly.edu/collegesandprograms/collegeofagriculturefoodenvironmentalsciences/foodsciencenutrition/bsnutrition/nutritionandfoodindustriesconcentration)
• Nutrition Science (http://catalog.calpoly.edu/collegesandprograms/collegeofagriculturefoodenvironmentalsciences/foodsciencenutrition/bsnutrition/nutritionscienceconcentration)

General Education (GE) Requirements
• 72 units required, 24 of which are specified in Major and/or Support.
• See the complete GE course listing (http://catalog.calpoly.edu/generalrequirementsbachelorsdegree/#generaleducationtext).
• Minimum of 12 units required at the 300 level.

<table>
<thead>
<tr>
<th>Area</th>
<th>Communication</th>
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<tbody>
<tr>
<td>A1</td>
<td>Expository Writing</td>
</tr>
<tr>
<td>A2</td>
<td>Oral Communication</td>
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<tr>
<td>Area</td>
<td>Department</td>
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<td>-------</td>
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</tr>
<tr>
<td>A3</td>
<td>Reasoning, Argumentation and</td>
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<tr>
<td><strong>Area B</strong></td>
<td><strong>Science and Mathematics</strong></td>
</tr>
<tr>
<td>B1</td>
<td>Mathematics/Statistics (8 units in Major)</td>
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<tr>
<td>B2</td>
<td>Life Science (4 units in Major)</td>
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<tr>
<td>B3</td>
<td>Physical Science (4 units in Major)</td>
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<tr>
<td>B4</td>
<td>One lab taken with either a B2 or B3 course</td>
</tr>
<tr>
<td><strong>Area C</strong></td>
<td><strong>Arts and Humanities</strong></td>
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<tr>
<td>C1</td>
<td>Literature</td>
</tr>
<tr>
<td>C2</td>
<td>Philosophy</td>
</tr>
<tr>
<td>C3</td>
<td>Fine/Performing Arts</td>
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<tr>
<td>C4</td>
<td>Upper-division elective</td>
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<tr>
<td>C5</td>
<td>Area C elective (Choose one course from C1-C5)</td>
</tr>
<tr>
<td><strong>Area D/E</strong></td>
<td><strong>Society and the Individual</strong></td>
</tr>
<tr>
<td>D1</td>
<td>The American Experience (Title 5, Section 40404 requirement)</td>
</tr>
<tr>
<td>D2</td>
<td>Political Economy (4 units in Major)</td>
</tr>
<tr>
<td>D3</td>
<td>Comparative Social Institutions</td>
</tr>
<tr>
<td>D4</td>
<td>Self Development (CSU Area E) (4 units in Major)</td>
</tr>
<tr>
<td>D5</td>
<td>Upper-division elective</td>
</tr>
<tr>
<td><strong>Area F</strong></td>
<td><strong>Technology</strong></td>
</tr>
<tr>
<td>F</td>
<td>Upper-division elective</td>
</tr>
<tr>
<td><strong>Total units</strong></td>
<td></td>
</tr>
</tbody>
</table>

1 Required in Major; also satisfies GE