2009-11 Cal Poly Catalog

Biological Sciences Department

MICROBIOLOGY MINOR

This minor is designed to give students from majors in which microbiology may be an important component increased exposure to factual information, concepts, and skills in order to provide those students a more complete understanding of the roles of microorganisms as they pertain to studies in their chosen major. The emphasis areas of the minor allow students in the allied health and related fields to expand their breadth of knowledge in microbial diseases, transmission and prevention, and immunologic responses. Students in applied fields of study such as Food and Dairy Sciences and various aspects of agriculture can gain additional information in pertinent topics such as microbial involvement in water and wastewater treatment; the role of microorganisms in recycling of nutrients and soil fertility; microbial roles in food processing, spoilage, production; and disease transmission.

Required Courses

<table>
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<tr>
<th>Course</th>
<th>Units</th>
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<tr>
<td>MCRO 221 Microbiology (B2&amp;B4) or MCRO 224 General Microbiology (B2&amp;B4)</td>
<td>4/5</td>
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<tr>
<td>MCRO 225 General Microbiology II</td>
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<tr>
<td>MCRO 423 Medical Microbiology (for Medical/Health Science emphasis area) or MCRO 424 Microbial Physiology (for Applied and Environmental emphasis area)</td>
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Emphasis area courses

Select courses from one of the following emphasis areas:

Medical/Health Sciences
- MCRO 320, 342, 402, 424,
- BIO 426, ZOO 425, 428

Applied and Environmental Sciences
- MCRO 342, 421, 423, 433, 436, SS 422

Total: 26