**WILDLIFE AND BIODIVERSITY CONSERVATION CONCENTRATION**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 401</td>
<td>Principles of Conservation Biology</td>
<td>4</td>
</tr>
<tr>
<td>BOT 313</td>
<td>Taxonomy of Vascular Plants</td>
<td>4</td>
</tr>
<tr>
<td>BOT 433</td>
<td>Field Botany: California Plant Diversity</td>
<td>5</td>
</tr>
<tr>
<td>LA/NR 218</td>
<td>Applications in GIS</td>
<td>3</td>
</tr>
<tr>
<td>or GEOG 318</td>
<td>Applications in GIS</td>
<td></td>
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</tbody>
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**Zoology Courses**
Select from the following:  

- BIO 321 Mammalogy  
- BIO 322 Ichthyology  
- BIO 323 Ornithology  
- BIO 324 Herpetology  
- BIO 335 General Entomology  
- BIO 336 Invertebrate Zoology  

**Ecology Courses**
Select from the following:  

- BIO 427 Wildlife Management  
- BIO 444 Population Ecology  
- BIO 445 Community Ecology  

**Approved Electives**  
Select from the following:  

- ASCI 329 Principles of Range Management  
- BIO 321 Mammalogy  
- BIO 322 Ichthyology  
- BIO 323 Ornithology  
- BIO 324 Herpetology  
- BIO 327 Wildlife Ecology  
- BIO 329 Vertebrate Field Zoology  
- BIO 330 Extended Field Biology Activity  
- BIO 335 General Entomology  
- BIO 336 Invertebrate Zoology  
- BIO 400 Special Problems for Advanced Undergraduates  
- BIO 415 Biogeography  
- BIO 419 Analytical Methods in Ecology  
- BIO 427 Wildlife Management  
- BIO 429 Parasitology  
- BIO 434 Environmental Physiology  
- BIO 442 Behavioral Ecology  
- BIO 444 Population Ecology  
- BIO 445 Community Ecology  
- BIO 446 Ecosystem Ecology  
- BIO 461 Senior Project - Research Proposal  
- BIO 462 Senior Project - Research  
- BIO 463 Honors Research  
- BOT 326 Plant Ecology  

**Additional Courses**

- ENGR 322/SCM 302 The Learn By Doing Lab Teaching Practicum  
- GEOG 440 Advanced-Applications in GIS  
- MSCI 328 Marine Ecology  
- MSCI 437 Marine Botany  
- MSCI 439 Fisheries Science and Resource Management  
- NR 141 Introduction to Forest Ecosystem Management  
- NR 142 Environmental Management  
- NR 404 Environmental Law  
- NR 416 Environmental Impact Analysis and Management  
- NR 418 Applied GIS  
- NR 425 Applied Resource Analysis and Assessment  
- STAT 313 Applied Experimental Design and Regression Models  
- STAT 324 Applied Regression Analysis or STAT 334 Applied Linear Models  
- STAT 330 Statistical Computing with SAS  
- STAT 416 Statistical Analysis of Time Series  
- STAT 419 Applied Multivariate Statistics  
- STAT 421 Survey Sampling and Methodology  

**Total units** 43

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1. Students seeking certification as an Associate Wildlife Biologist via the Wildlife Society should see their faculty advisor for assistance.
2. Consultation with a faculty advisor is recommended prior to selecting approved electives; selections may impact pursuit of post-baccalaureate studies and/or goals.
3. Courses taken to meet a major or support requirement cannot be double-counted as an elective.
4. If BIO 461 or BIO 462 is used to meet the Senior Project Requirement, it cannot also be counted as an Approved Elective.
5. Maximum of 6 units may be applied toward Approved Electives from "by arrangement" courses: BIO 400, BIO 461, BIO 462, BIO 463, ENGR 322/SCM 302.