WILDLIFE AND BIODIVERSITY CONSERVATION CONCENTRATION

BIO 401 Principles of Conservation Biology 4  
BOT 313 Taxonomy of Vascular Plants 4  
BOT 433 Field Botany: California Plant Diversity 
LA/NR 218 Applications in GIS 3  
or GEOG 318 Applications in GIS 

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

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

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.