ZOLOGY UNDERGRADUATE MAJOR (BS, HBS)

Also available via Ecampus.

Administered by the Department of Integrative Biology under the School of Life Sciences.

The Zoology major offers scientific training in the diversity, organismal biology, ecology, and evolution of animals. The major core provides a solid foundation in the biological sciences while electives allow students to cater course work to meet specific interests in animal biology. Undergraduate research, internship, teaching and study abroad experience are strongly recommended, and credits can be integrated with major requirements.

Zoology majors enter such varied fields as animal care and husbandry, curatorial and museum management, laboratory animal research, field biology and conservation, and environmental management and policy. The Zoology major is not suitable for pre-veterinary medicine students as it does not include the required prerequisite course work (see the option in Pre-Veterinary Medicine in the Biology major).

Major Code: 620

- Explain and apply the fundamental concepts of the zoological sciences including these four disciplinary areas: Animal diversity; Ecology and Evolution; Organismal Biology; and, Cell Biology and Genetics.
- Explain and apply the fundamental concepts of animal diversity.
- Explain and apply the fundamental concepts of ecology and evolution.
- Explain and apply the fundamental concepts of organismal biology.
- Explain and apply the fundamental concepts of cell biology and genetics.
- Apply the process of science.
- Apply the process of science through accessing primary literature, identifying relevant works for a particular topic, and evaluating the scientific content of these works.
- Apply the process of science through formulating testable hypotheses based on observation, gathering data to address these hypotheses and analyzing those data to assess the degree to which their hypothesis is supported. Employing fundamental quantitative and statistical principles to present and critique scientific findings.
- Communicate scientific information through effective formal and informal writing and speaking in a format used by practicing scientists.
- Integrate and analyze information across levels of organization ranging from cells to ecosystems within the zoological sciences to formulate arguments and critically evaluate scientific claims.
- Conduct background research and apply fundamental zoological science principles to make informed decisions on socio-scientific issues.

Students majoring in Biology, BioHealth Sciences, Fisheries and Wildlife Sciences, or Zoology cannot seek a dual or double major in any combination of these four majors. Zoology majors cannot seek the Biology minor.

For further information, see MyDegrees or the Integrative Biology (http://ib.oregonstate.edu) website.

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<td>CELL AND MOLECULAR BIOLOGY</td>
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<td>or Z 364 &amp; Z 461 &amp; BI 450</td>
<td>DIVERSITY OF LIFE: INVERTEBRATES and MARINE AND ESTUARINE INVERTEBRATE ZOOLOGY and *MARINE BIOLOGY AND ECOLOGY</td>
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<td>ENVIRONMENTAL PHYSIOLOGY</td>
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### Zoology Undergraduate Major (BS, HBS)

**Writing Intensive Course (WIC)**

Select one course from the following: 3-15

- BI 319 *THEORY, PRACTICE AND DISCOURSE IN THE LIFE SCIENCES*
- BI 371 *ECOLOGICAL METHODS*
- BI 373 *FIELD METHODS IN MARINE ECOLOGY*
- BI 450 *MARINE BIOLOGY AND ECOLOGY* (by application only - Hatfield Marine Science Center)

**Senior Biology Field Test**

BI 498 SENIOR BIOLOGY FIELD TEST ** 0

### Zoology Elective Courses

**Organism, Physiology and Systematics Electives**

Select two 3+ credit courses from the following: 6-8

- BI 358 SYMBOSES AND THE ENVIRONMENT
- BI 485 MONSTER BIOLOGY
- BOT 321 PLANT SYSTEMATICS
- FW 302 BIOLOGY AND CONSERVATION OF MARINE MAMMALS ¹
  - or FW 311 ORNITHOLOGY
  - or FW 315 ICHTHYOLOGY
  - or FW 317 MAMMALOGY
  - or FW 331 ECOLOGY OF MARINE AND ESTUARINE BIRDS
- MB 480 GENERAL PARASITOLOGY
- Z 350 ANIMAL BEHAVIOR
- Z 365 BIOLOGY OF INSECTS
- Z 422 COMPARATIVE/FUNCTIONAL VERTEBRATE ANATOMY
- Z 431 VERTEBRATE PHYSIOLOGY 1
- Z 438 BEHAVIORAL NEUROBIOLOGY
- Z 473 HERPETOLOGY
- Z 477 AQUATIC ENTOMOLOGY

**Ecology, Evolution and Conservation Electives**

Select two 3+ credit courses from the following: 6-8

- BI 301 *HUMAN IMPACTS ON ECOSYSTEMS*
  - or BI 348 *HUMAN ECOLOGY*
- BI 351 MARINE ECOLOGY *
  - or BI 450 *MARINE BIOLOGY AND ECOLOGY*
- BI 353 PACIFIC NORTHWEST COASTAL ECOSYSTEMS (taught at Hatfield Marine Science Center)
- BI 375 FIELD METHODS IN ECOLOGICAL RESTORATION (taught at OSU-Cascades)
- BI 427 PALEOBIOLOGY
- BI 481 BIOGEOGRAPHY
- BI 495 DISEASE ECOLOGY
- BOT 341 PLANT ECOLOGY
- FES 440 WILDLAND FIRE ECOLOGY
  - or FES 445 ECOLOGICAL RESTORATION
  - or FW 445 ECOLOGICAL RESTORATION
- FW 320 INTRODUCTORY POPULATION DYNAMICS *
  - or FW 421 AQUATIC BIOLOGICAL INVASIONS
  - or FW 427 PRINCIPLES OF WILDLIFE DISEASES
  - or FW 479 WETLANDS AND RIPARIAN ECOLOGY
- Z 349 *Biodiversity Causes, Consequences, and Conservation*

**Natural Resource, Management and Policy Electives**

Select two 3+ credit courses from the following: 6

- AEC 250 *INTRODUCTION TO ENVIRONMENTAL ECONOMICS AND POLICY*
  - or AEC 253 *ENVIRONMENTAL LAW, POLICY, AND ECONOMICS*
- AEC 342 ENVIRONMENTAL LAW
- ANS 280 COMPANION ANIMAL MANAGEMENT
- BI 347 *OCEANS IN PERIL*
- BI 348 *HUMAN ECOLOGY*
- or BI 301 *HUMAN IMPACTS ON ECOSYSTEMS*
- FES 355 MANAGEMENT FOR MULTIPLE RESOURCE VALUES
- FES 412 FOREST ENTOMOLOGY
- FES 452/FW 452 BIODIVERSITY CONSERVATION IN MANAGED FORESTS
- FES 485 *CONSENSUS AND NATURAL RESOURCES*
- FOR 436 WILDLAND FIRE SCIENCE AND MANAGEMENT
- FOR 462 NATURAL RESOURCE POLICY AND LAW
- FW 350 *ENDANGERED SPECIES, SOCIETY AND SUSTAINABILITY*
- FW 451 AVIAN CONSERVATION AND MANAGEMENT
- FW 458 MAMMAL CONSERVATION AND MANAGEMENT
- FW 462 ECOSYSTEM SERVICES
- GEOG 450 LAND USE IN THE AMERICAN WEST
- PS 475 ENVIRONMENTAL POLITICS AND POLICY
- PS 477 INTERNATIONAL ENVIRONMENTAL POLITICS AND POLICY
- SOC 481 *SOCIETY AND NATURAL RESOURCES*
- TRAL 352 WILDERNESS MANAGEMENT
  - or TRAL 357 *PARKS AND PROTECTED AREAS MANAGEMENT*

**Experiential Learning or Skills Elective**

Select one of the following two tracks: 3

- **Track I Experiential Learning Credits**
  - Select any combination of three credits from the following:
    - BI 309 TEACHING PRACTICUM (by approval)
    - BI 401 RESEARCH AND SCHOLARSHIP (by approval)
    - BI 406 PROJECTS: CURATORIAL ASSISTANT (by approval)
    - BI 409 ADVANCED TEACHING PRACTICUM (by approval)
    - BI 410 INTERNSHIP (by approval)
  - OSU international internships (INTL credits) by approval

- **Track II Skills Course**
  - Select one course from the following:
    - 3-4
      - ANS 435 APPLIED ANIMAL BEHAVIOR
      - BI 375 FIELD METHODS IN ECOLOGICAL RESTORATION (taught at OSU-Cascades)
      - BI 450 *MARINE BIOLOGY AND ECOLOGY* (by application only - taught at Hatfield Marine Science Center)
      - BOT 425 FLORA OF THE PACIFIC NORTHWEST
      - BOT 440 FIELD METHODS IN PLANT ECOLOGY
      - CS 201 COMPUTER PROGRAMMING FOR NON-CS MAJORS
      - or CS 161 INTRODUCTION TO COMPUTER SCIENCE I
      - FES 430 FOREST AS CLASSROOM
      - FW 255 FIELD SAMPLING OF FISH AND WILDLIFE
      - FW 493 FIELD METHODS FOR MARINE RESEARCH (taught at Hatfield Marine Science Center)
      - FW 498 AQUACULTURE LABORATORY
      - GEOG 360 GISCIENCE I: GEOGRAPHIC INFORMATION SYSTEMS AND THEORY
      - GRAD 430 INTRODUCTION TO SCIENTIFIC DIVING
      - KIN 232 BACKCOUNTRY LEADERSHIP
      - NR 325 SCIENTIFIC METHODS FOR ANALYZING NATURAL RESOURCE PROBLEMS
      - RNG 353 WILDLAND PLANT IDENTIFICATION
      - RNG 441 RANGELAND ANALYSIS
      - SED 435 COMMUNICATING OCEAN SCIENCES TO INFORMAL AUDIENCES
      - TRAL 493 ENVIRONMENTAL INTERPRETATION

**Total credits required for graduation**: 180

* Baccalaureate Core Course (BCC)
^ Writing Intensive Course (WIC)
Major Code: 620

Track I

First Year

Fall

BI 198  PROFESSIONAL DEVELOPMENT I: BIOLOGY AND ZOOLOGY  1  
CH 261  GENERAL CHEMISTRY  5  
or CH 231  or GENERAL CHEMISTRY and *LABORATORY FOR CHEMISTRY 231  
or MTH 261  or *COLLEGE ALGEBRA and *ELEMENTARY FUNCTIONS  
Bacc Core  3  
HHS 231  *LIFETIME FITNESS FOR HEALTH (or PAC Course)  1-2  

Credits  14-15

Winter

CH 122  *GENERAL CHEMISTRY  5  
or CH 232  or GENERAL CHEMISTRY and *LABORATORY FOR CHEMISTRY 232  
or MTH 251  or *ELEMENTARY FUNCTIONS  
MTH 262  or MTH 251  or *DIFFERENTIAL CALCULUS  

Two Bacc Core courses  6-8  

Credits  17

Spring

BI 298  PROFESSIONAL DEVELOPMENT FOR BIOLOGISTS II  1  
CH 123  *GENERAL CHEMISTRY  5  
or CH 233  or GENERAL CHEMISTRY and *LABORATORY FOR CHEMISTRY 233  
or MTH 251  or *DIFFERENTIAL CALCULUS  
MTH 263  or MTH 251  or *CALCULUS AND PROBABILITY FOR THE LIFE SCIENCES I  

Two Bacc Core courses  6-8  

Credits  18

Second Year

Fall

BI 221  *PRINCIPLES OF BIOLOGY: CELLS  4  
CH 331  ORGANIC CHEMISTRY  4  
MTH 252  INTEGRAL CALCULUS  4  
MTH 252  or MTH 252  or CALCULUS AND PROBABILITY FOR THE LIFE SCIENCES II  
Bacc Core  3-4  

Credits  16

Winter

BI 222  *PRINCIPLES OF BIOLOGY: ORGANISMS  4  
CH 332  ORGANIC CHEMISTRY  4  
Two Bacc Core courses  6-8  

Credits  16

Spring

BI 223  *PRINCIPLES OF BIOLOGY: POPULATIONS  4  
CH 337  ORGANIC CHEMISTRY LABORATORY  or CH 390  or ENVIRONMENTAL CHEMISTRY  
ST 351  INTRODUCTION TO STATISTICAL METHODS  4  
Bacc Core course  3-4  

Credits  15-16

Third Year

Fall

BI 311  GENETICS  3-4  
or BB 314  or CELL AND MOLECULAR BIOLOGY  
or BI 370  or ECOLOGY  
ST 352  INTRODUCTION TO STATISTICAL METHODS  4  
Z 423  ENVIRONMENTAL PHYSIOLOGY  3  
Bacc Core  3-4  

Credits  14-15

Winter

BI 311  GENETICS  3-4  
or BB 314  or CELL AND MOLECULAR BIOLOGY  
or BI 370  or ECOLOGY  
Writing Intensive Course or Organismal, Physiology and Systematics Elective  3  
Ecology, Evolution and Conservation Elective or Natural Resource, Management and Policy Elective  3  

Bacc Core  3-4  

Credits  13-14

Spring

BI 311  GENETICS  3-4  
or BB 314  or CELL AND MOLECULAR BIOLOGY  
or BI 370  or ECOLOGY  
Z 361  INVERTEBRATE BIOLOGY  3  
Z 362  INVERTEBRATE BIOLOGY LABORATORY  2  
Writing Intensive Course or Organismal, Physiology and Systematics Elective  3-5  
Ecology, Evolution and Conservation Elective or Natural Resource, Management and Policy Elective  3-4  

Credits  17-18

Fourth Year

Fall

BI 445  EVOLUTION  3  
Z 371  VERTEBRATE BIOLOGY  3  
Z 372  VERTEBRATE BIOLOGY LABORATORY  2  
Ecology, Evolution and Conservation Elective or Natural Resource, Management and Policy Elective  3-4  

Credits  12

Winter

BI 483  POPULATION BIOLOGY  3  
Ecology, Evolution and Conservation Elective or Natural Resource, Management and Policy Elective  3-4  
Writing Intensive Course or Organismal, Physiology and Systematics Elective  3-5  
Experiential Learning or Skills Elective  3-4  

Credits  16

Spring

BI 498  SENIOR BIOLOGY FIELD TEST  0  
Experiential Learning or Skills Elective  3-4  
Electives  8  

Credits  12

Total Credits  180-185

Track II

First Year

Fall

BI 198  PROFESSIONAL DEVELOPMENT I: BIOLOGY AND ZOOLOGY  1  
BI 221  *PRINCIPLES OF BIOLOGY: CELLS  4  
CH 121  GENERAL CHEMISTRY  5  
or CH 231  or GENERAL CHEMISTRY and *LABORATORY FOR CHEMISTRY 231  

Credits  1
Zoology Undergraduate Major (BS, HBS)

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* Baccalaureate Core Course (BCC)
^ Writing Intensive Course (WIC)

Spring
- Ecology, Evolution and Conservation Electives or Natural Resource, Management and Policy Elective: 3-4
- Writing Intensive Course or Organismal, Physiology and Systematics Elective: 3-5
- Total Credits: 180-184