**PRE-VETERINARY MEDICINE OPTION**

This option is offered within the following major(s):

- Biology - College of Science [link](http://catalog.oregonstate.edu/college-departments/science/school-life-sciences/integrative-biology/biology-bs-hbs)

The Biology major Pre-Veterinary Medicine option is designed to meet OSU College of Veterinary Medicine prerequisites and other U.S. veterinary schools, but students should consult the requirements for specific schools before they apply because requirements can change. The Pre-Veterinary Medicine option couples the strong biological sciences background of the Biology major with core animal anatomy and physiology laboratories and animal-focused science electives. Dedicated professional advisors work with Pre-Veterinary Medicine option students to integrate animal handling and other essential professional experiences during their time at OSU.

Options in the Biology major require fifteen or fewer additional credits (one term) beyond the basic Biology major, and most students can complete the additional Pre-Veterinary Medicine option course work in four years. Completion of the Pre-Veterinary Medicine option requires a 3.0 cumulative GPA in major and option course work. Courses used to satisfy the Pre-Veterinary Medicine option requirements also satisfy the Physics/Computer Science and Quantitative Applications, Organismal Biology, Physiology, Writing Intensive Course and Upper-division Science Elective requirements in the Biology major. Several courses may also be used to satisfy areas of the baccalaureate core.

Students may pursue either the Pre-Veterinary Medicine, Pre-Dentistry, Pre-Medicine or Physiology and Behavior options within the Biology major—no dual combinations of these options are permitted.

Students interested in private practice should also consider taking BA 215 FUNDAMENTALS OF ACCOUNTING, or BA 260 INTRODUCTION TO ENTREPRENEURSHIP.

It is recommended that Pre-Veterinary Medicine option students take COMM 111 *PUBLIC SPEAKING to complete the Biology major baccalaureate core communications requirement.

The option sections and courses within them are arranged in the order they are generally completed.

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>VMB 110</td>
<td>PREVETERINARY MEDICINE</td>
<td>1</td>
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<tr>
<td>PH 201</td>
<td>*GENERAL PHYSICS</td>
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<tr>
<td>PH 202</td>
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<td>PH 203</td>
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<td>PH 205</td>
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<tr>
<td>or PHL 444/REL 444</td>
<td>*BIOMEDICAL ETHICS</td>
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<tr>
<td>Z 431</td>
<td>VERTEBRATE PHYSIOLOGY I</td>
<td>4</td>
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| VMB 110 | VERTEBRATE PHYSIOLOGY I                                              | 5     |
| Z 422   | COMPARATIVE/FUNCTIONAL VERTEBRATE ANATOMY                             | 5     |

**Writing Intensive Course**

Select one of the following: 3-4

- BI 319/Z 319 *CRITICAL THINKING AND COMMUNICATION IN THE LIFE SCIENCES
- HSTS 437 *HISTORY OF ANIMALS IN SCIENCE

**Science Elective**

Select two of the following: 3-5

- ANS 302 COMMON DISEASES OF COMPANION ANIMALS
- ANS 311 PRINCIPLES OF ANIMAL NUTRITION
- BI 485 MONSTER BIOLOGY
- BI 495 DISEASE ECOLOGY
- FW 427 PRINCIPLES OF WILDLIFE DISEASES
- MB 480 GENERAL PARASITOLOGY
- TOX 411 FUNDAMENTALS OF TOXICOLOGY
- Z 350 ANIMAL BEHAVIOR
- Z 371 VERTEBRATE BIOLOGY ¹
- Z 425 EMBRYOLOGY AND DEVELOPMENT
- Z 437 VERTEBRATE ENDOCRINOLOGY
- Z 438 BEHAVIORAL NEUROBIOLOGY

**Additional Upper-division Elective**

Select one of the following tracks: 3

**Track I Experiential Learning Credits**

Complete any combination of 3 credits of the following:

- BI 309 TEACHING PRACTICUM (by approval)
- BI 401 RESEARCH AND SCHOLARSHIP (by approval)
- BI 409 ADVANCED TEACHING PRACTICUM (by approval)

**Track II Science Elective Course**

Select 3 plus credits ²

Total Hours 43-46

² Students may take any combination of 3 credits from the following:

- BI 309 TEACHING PRACTICUM (by approval)
- BI 401 RESEARCH AND SCHOLARSHIP (by approval)
- BI 409 ADVANCED TEACHING PRACTICUM (by approval)
Z 372 VERTEBRATE BIOLOGY LABORATORY recommended.

One 3+ credit, 300–400 level course from the College of Science (BB, BHS, BI, BOT, CH, MB, MTH, PH, ST, and Z) may be used to meet this requirement with the exception of the courses listed below as excluded. Other science courses outside of COS and courses or internships taken internationally may be used by Integrative Biology Lead Advisor approval. Courses from other majors, minors or baccalaureate core requirements not used to meet requirements above may also be used.

**EXCLUDED COURSES:** 401–410 credits (except as outlined above or by approval), BB 350 ELEMENTARY BIOCHEMISTRY, BB 490 BIOCHEMISTRY 1: STRUCTURE AND FUNCTION—BB 492 BIOCHEMISTRY 3: GENETIC BIOCHEMISTRY, BI 331 ADVANCED HUMAN ANATOMY AND PHYSIOLOGY—BI 333 ADVANCED HUMAN ANATOMY AND PHYSIOLOGY, BI 341 ADVANCED HUMAN ANATOMY AND PHYSIOLOGY LABORATORY—BI 343 ADVANCED HUMAN ANATOMY AND PHYSIOLOGY LABORATORY, CH 334 ORGANIC CHEMISTRY, CH 335 ORGANIC CHEMISTRY, CH 336 ORGANIC CHEMISTRY, ST 314 INTRODUCTION TO STATISTICS FOR ENGINEERS, Z 361 INVERTEBRATE BIOLOGY/Z 362 INVERTEBRATE BIOLOGY LABORATORY, Z 461 MARINE AND ESTUARINE INVERTEBRATE ZOOLOGY and any 399 or 499 courses not specifically approved.

* Baccalaureate Core Course (BCC)

^ Writing Intensive Course (WIC)

Option Code: 584