BIOLOGY MAJOR— Pre-Veterinary Medicine Option 2019-2020

Biology majors may obtain an option in Pre-Veterinary Medicine by satisfying the requirements below with a 3.0 GPA. Courses used to satisfy these requirements also satisfy the Organismal Biology, Physiology, Writing Intensive Course (WIC), Physics or Computer Science and Quantitative Applications, and Experiential Learning or Integrative Biology Elective requirements in the Biology major. Students completing the requirements listed below will meet the prerequisites for most AAVMC accredited veterinary schools in the U.S. and abroad. Other coursework taken abroad or at Hatfield may be approved by the IB lead advisor. Previous versions of this option are different and are tracked in MyDegrees. All courses and prerequisites are subject to change, and the listing of term is based on projected Corvallis campus offerings.

### Course Coursework

<table>
<thead>
<tr>
<th>Course Coursework</th>
<th>Pre(Co)requisites</th>
<th>Term</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>VMB 110 Pre-Veterinary Medicine</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHL 205 Ethics OR PHL/REL 444 Biomedical Ethics</td>
<td>Sophomore standing for PHL/REL 444</td>
<td>F, W, SP, SU</td>
<td>4</td>
</tr>
<tr>
<td>BI 319 Critical Thinking &amp; Communication in the Life Sciences</td>
<td>BI 211, 212, 213; ST 351</td>
<td>F, W</td>
<td>3</td>
</tr>
<tr>
<td>PH 201, 202, 203 General Physics</td>
<td>MTH 112 (C-)</td>
<td>F, W, SP, SU</td>
<td>5,5,5</td>
</tr>
<tr>
<td>Z 350 Animal Behavior</td>
<td>BI 211, 212, 213 (C-)</td>
<td>W</td>
<td>3</td>
</tr>
<tr>
<td>Z 422 Comparative Vertebrate Anatomy</td>
<td>BI 211, 212, 213</td>
<td>F</td>
<td>5</td>
</tr>
<tr>
<td>Z 431 Vertebrate Physiology I</td>
<td>BI 211, 212, 213; CH 332</td>
<td>W</td>
<td>4</td>
</tr>
<tr>
<td>Z 432 Vertebrate Physiology II AND Z 442 Laboratory</td>
<td>Z 431 (C-)</td>
<td>SP</td>
<td>3+2</td>
</tr>
</tbody>
</table>

### Experiential Learning or Science Elective Course (select both tracks or two courses from track II)

**Track I Experiential Learning Credits (complete any combination of three credits below)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Pre(Co)requisites</th>
<th>Term</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BI 309 Teaching Practicum or BI 409 Advanced Teaching Practicum</td>
<td>Departmental Approval</td>
<td>F,W,SP</td>
<td>1-3</td>
</tr>
<tr>
<td>BI 401 Research and Scholarship</td>
<td>Departmental Approval</td>
<td>F,W,SP,SU</td>
<td>1-3</td>
</tr>
</tbody>
</table>

**Track II Science Elective (select two courses from the following, or one in combination with three credits from track I):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Pre(Co)requisites</th>
<th>Term</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANS 311 Animal Nutrition</td>
<td>BI 211, 212</td>
<td>F</td>
<td>3</td>
</tr>
<tr>
<td>BI 485 Monster Biology</td>
<td>BI 311, BI 370</td>
<td>W</td>
<td>3</td>
</tr>
<tr>
<td>BI 495 Disease Ecology</td>
<td>BI 370</td>
<td>Alternate W</td>
<td>3</td>
</tr>
<tr>
<td>BHS/VMB 415 One Health in Practice</td>
<td>BI 211, 212, 213 (C-)</td>
<td>W, SP</td>
<td>3</td>
</tr>
<tr>
<td>FW 427 Principles of Wildlife Diseases</td>
<td>BI 211, 212, 213 (C-)</td>
<td>?</td>
<td>4</td>
</tr>
<tr>
<td>MB 480 General Parasitology</td>
<td>BI 211, 212, 213 (C-)</td>
<td>W</td>
<td>3</td>
</tr>
<tr>
<td>TOX 411 Fundamentals of Toxicology</td>
<td>BB 450</td>
<td>SP</td>
<td>3</td>
</tr>
<tr>
<td>Z 371 Vertebrate Biology (Z 372, laboratory recommended)</td>
<td>BI 211, 212, 213 (C-)</td>
<td>F</td>
<td>3 (+2 lab)</td>
</tr>
<tr>
<td>Z 425 Embryology and Development</td>
<td>BI 311, BB 314, Junior Standing</td>
<td>F</td>
<td>5</td>
</tr>
<tr>
<td>Z 437 Vertebrate Endocrinology</td>
<td>BB 314 (C-)</td>
<td>SP</td>
<td>4</td>
</tr>
<tr>
<td>Z 438 Behavioral Neurobiology</td>
<td>BI 211, 212, 213 (C-); CH 233/263</td>
<td>SP</td>
<td>3</td>
</tr>
<tr>
<td>Z 473 Herpetology</td>
<td>BI 211, 212, 213 (C-)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Veterinary/Animal Experience

Animal care and clinical veterinary shadowing experiences are essential in preparing for veterinary school. Applicants must have experiences in both large and small animal settings. Samples of opportunities are outlined on the back of this document.

**Shadowing** is a good way to begin getting experience and to decide if veterinary medicine is for you. Contact offices and clinics either in Corvallis or at home to see what opportunities are available.

**Volunteer Experiences** are an exceptional way to obtain the skills and competencies necessary to be competitive for more formalized experiences in veterinary medicine. See [http://ib.oregonstate.edu/professional/internship-research/intern-volunteer-list](http://ib.oregonstate.edu/professional/internship-research/intern-volunteer-list) along with international opportunities at [http://ib.oregonstate.edu/professional/international](http://ib.oregonstate.edu/professional/international).
Applying To Veterinary School

AAVMC Accredited DVM Programs (U.S. and International)
Visit [http://aavmc.org/College-Specific-Requirements/College-Specific-Requirements_College-Specifications.aspx](http://aavmc.org/College-Specific-Requirements/College-Specific-Requirements_College-Specifications.aspx) to learn more about prerequisites and admission requirements for accredited programs.

Applying to Veterinary Colleges

View guidelines at the Association of American Veterinary Medical Colleges (AAVMC).

Veterinary Medical College Application Service and Webinar

OSU DVM Program Application

Visit the OSU Pre-Veterinary website for application information [http://oregonstate.edu/vetmed/students/future/dvm/apply](http://oregonstate.edu/vetmed/students/future/dvm/apply)

Admissions Test

The Graduate Record Exam is required for AVMA accredited DVM programs (select schools may require the MCAT).
[www.ets.org/gre/](http://www.ets.org/gre/)

References

At least one DVM and one academic (professor) reference is required for the majority of AAVMC accredited DVM programs. Applicants should select references who can speak to specific skills, abilities, and leadership in a professional and/or academic setting.

Research Opportunities

Research, while not required, provides the opportunity to develop analytical and communication skills, as well as an understanding of research methods and the scientific process. Undergraduate research experiences can be a key element of a well-rounded application for veterinary school. See: [http://ib.oregonstate.edu/professional/research-internships](http://ib.oregonstate.edu/professional/research-internships).

Study Abroad Coursework

Although specific professional courses should not be done abroad, study abroad is a great and very feasible opportunity for pre-veterinary medicine students. Work with your advisor to create a schedule that allows you to study abroad and apply courses to your degree.

International Opportunities

International programs in pre-veterinary medicine are available through OSU. These programs can be integrated into a 4-year degree with the Pre-Veterinary Medicine Option and include diverse study abroad and internship choices. See: [http://ib.oregonstate.edu/professional/international](http://ib.oregonstate.edu/professional/international)

Leadership

Leadership Experiences are valued by veterinary schools as a way to develop interpersonal skills and working as part of teams. There are a variety of ways to incorporate leadership experiences as an undergraduate, including club officer roles, coordinator for an organization (public, private or non-profit), peer mentoring or ambassador work. Students may also consider leadership courses or the leadership minor:
[http://agsci.oregonstate.edu/leadership_minor](http://agsci.oregonstate.edu/leadership_minor).

Campus Resources

Student Club: Pre-Veterinary Medical Association (PVMA) and Listserv
Pre-Vet students are encouraged to participate in PVMA. Join the PVMA listserv to learn about opportunities for pre-vet students. Visit the PVMA website for information on membership and club-sponsored events.
[http://groups.oregonstate.edu/pvc/](http://groups.oregonstate.edu/pvc/)

Pre-Vet Advising
Make an advising appointment:
[http://ib.oregonstate.edu/advising/appointments](http://ib.oregonstate.edu/advising/appointments)

OSU College of Veterinary Medicine Information
Tess Collins, Admissions Coordinator
tess.collins@oregonstate.edu, (541) 737-6985.

Biology Careers Page - Veterinary Medicine
[http://ib.oregonstate.edu/professional/careers](http://ib.oregonstate.edu/professional/careers)

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