

# BIOLOGY MAJOR— Pre-Veterinary Medicine Option 2018-2019

Biology majors may obtain an option in Pre-Veterinary Medicine by satisfying the requirements below. A 3.0 GPA is required to complete the option. Courses used to satisfy these requirements also satisfy the Organismal Biology, Physiology, Writing Intensive Course (WIC) and upper-division science 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. Previous versions of this option are somewhat different and are tracked in MyDegrees – see MyDegrees for details. Students should always consult the requirements of all schools to which they plan to apply. **All prerequisites courses for DVM programs are subject to change.**

<b>Course Coursework– 34 credits</b>			
<b>Course</b>	<b>Pre(Co)requisites</b>	<b>Term</b>	<b>Credits</b>
VMB 110 Pre-Veterinary Medicine		F	1
PHL 205 Ethics <b>OR</b> PHL/REL 444 Biomedical Ethics	Sophomore standing for PHL/REL 444	F, W, SP, SU	4
PH 201, 202, 203 General Physics	MTH 112 (C-)	F, W, SP, SU	5,5,5
Z 431 Vertebrate Physiology I	BI 211, 212, 213; CH 332	W	4
Z 432 Vertebrate Physiology II <b>AND</b> Z 442 Laboratory	Z 431 (C-)	SP	3+2
Z 422 Comparative Vertebrate Anatomy	BI 211, 212, 213	F	5
<b>Writing Intensive Course</b>			
BI 319 Critical Thinking & Communication in the Life Sciences	BI 211, 212, 213; ST 351	F?, W?, SP	3
<b>Science Elective (select one course from the following):</b>			
ANS 302 Common Diseases of Companion Animals	BI 211, 212, 213; CH 233/263	W	3
ANS 311 Animal Nutrition	BI 211, 212	F	3
BI 485 Monster Biology	BI 311, BI 370	W	3
BI 495 Disease Ecology	BI 370	Alternate W	3
FW 427 Principles of Wildlife Diseases	BI 211, 212, 213	?	4
MB 480 General Parasitology	BB 314 or BB 450 or Z 361 or MB 302	W	3
TOX 411 Fundamentals of Toxicology	BB 450	SP	3
Z 350 Animal Behavior	BI 211, 212, 213 (C-)	W	3
Z 371 Vertebrate Biology (Z 372, laboratory recommended)	BI 211, 212, 213 (C-)	F	3 (+2 lab)
Z 425 Embryology and Development	BI 311, BB 314, Junior Standing	F	5
Z 437 Vertebrate Endocrinology	BB 314 (C-)	SP	4
Z 438 Behavioral Neurobiology	BI 211, 212, 213; CH 123 or CH 231/261	SP	3
<b>Upper Division Elective (select three credits from Track I or one course from Track II)</b>			
<b>Track I Experiential Learning Credits (complete any combination of three credits below)</b>			
BI 309 Teaching Practicum <b>or</b> BI 409 Advanced Teaching Practicum	Departmental Approval	F,W,SP	1-3
BI 401 Research and Scholarship	Departmental Approval	F,W,SP,SU	1-3
<b>Track II Science Elective (select one 3+ credit, upper division (300-400 level) science elective science course not used above):</b>			
Courses from BB, BI, BOT, CH, MB, MTH, PH, ST, & Z including double major, minor and Bacc. Core may be used with exception of courses listed as excluded below. Other science courses outside of COS and other credits taken internationally may be used by approval.			
<b>Excluded:</b> 401-410, BB 350, BB 490-492, BI 331-333, BI 341-343, CH 334, CH 335, CH 336, ST 314 and any 399 or 499 courses not approved.			

## **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> along with international opportunities at <http://ib.oregonstate.edu/professional/international>.

# OSU Pre-Veterinary Medicine Resources and Information

## **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).

<http://www.aavmc.org/>

### **Veterinary Medical College Application Service and Webinar**

<http://www.aavmc.org/vmcas/vmcas.htm>

<http://www.aavmc.org/webinars.aspx>

### **OSU DVM Program Application**

Visit the OSU Pre-Veterinary website for application information <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.

## **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/>

### **Pre-Vet Advising**

Make an advising appointment:

<http://ib.oregonstate.edu/advising/appointments>

### **OSU College of Veterinary Medicine Information**

Tess Collins, Admissions Coordinator

[tess.collins@oregonstate.edu](mailto:tess.collins@oregonstate.edu), (541) 737-6985.

### **Biology Careers Page - Veterinary Medicine**

<http://ib.oregonstate.edu/professional/careers>

## **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>.

## **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 in to 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>