



# BIO-VETERINARY MEDICINE

## AT EASTERN ILLINOIS UNIVERSITY

NAME	
E NUMBER	
CATALOG	

2023-2024

### GENERAL REQUIREMENTS: 40 HRS

#### LANGUAGE: 9 HRS

Grade of "C" or better is required.

COURSE	HOURS	GRADE	SEMESTER
<b>ENG 1001G</b> Composition & Language	3		
<b>ENG 1002G</b> Composition & Language II	3		
<b>CMN 1310G</b> Intro. to Speech Comm.	3		

#### HUMANITIES/FINE ARTS: 9 HRS

COURSE	HOURS	GRADE	SEMESTER
<b>Humanities</b> _____	3		
<b>Fine Arts</b> _____	3		
<b>Humanities or Fine Arts</b> _____	3		

#### SENIOR SEMINAR: 3 HRS

Senior topic must be outside the major area. See Undergraduate Catalog for Senior Seminars outside of Biological Sciences.

COURSE	HOURS	GRADE	SEMESTER
<b>EIU</b> _____	3		

### SCIENCE CORE: 56 HRS

BIOLOGY COURSES	HOURS	GRADE	SEMESTER
<b>BIO 1150</b> Biology Forum	1		
<b>BIO 1500</b> General Biology I	4		
<b>BIO 1550G</b> General Biology II	4		
<b>BIO 3120</b> * Molecular & Cell Biology	4		
<b>BIO 3200</b> * Genetics	4		
<b>BIO 3520</b> * Animal Physiology	4		
<b>BIO 3180</b> * Ecology & Evolution	4		
<b>BIO 3300</b> * General Microbiology	4		
PHYSICS COURSES	HOURS	GRADE	SEMESTER
<b>PHY 1151G</b> * Principles Physics I	3		
<b>PHY 1152G</b> * Principles Physics I Lab	1		
<b>PHY 1161</b> * Principles Physics II	3		
<b>PHY 1162</b> * Principles Physics II Lab	1		

### MAJOR ELECTIVES: 21HRS

21 semester hours of elective course work in Biological Sciences (with the exception of **BIO 3400**, **BIO 4275**, workshops, and courses designed for General Education with the exception of **BIO 3888G**) or Mathematics or Physical Sciences courses above 2000 (with the exception of general education and **CHM 2310**). A minimum of 14 semester hours must be taken in the Biological Sciences.

<b>BIO 2210</b> (4) Anatomy and Physiology I	<b>BIO 3810</b> (3) Freshwater Ecology
<b>BIO 3035</b> (3) Economic Botany	<b>BIO 3850</b> (3) Environmental Biology
<b>BIO 3210</b> (4) Immunology	<b>BIO 3888G</b> (3) Tropical/Marine Ecology
<b>BIO 3312</b> (3) Horticulture	<b>BIO 3950</b> (3) Vertebrate Natural History
<b>BIO 3322</b> (3) Dendrology	<b>BIO 3952</b> (3) Invertebrate Natural History
<b>BIO 3330</b> (4) Introduction to Botany	<b>BIO 3960</b> (1-4) Special Topics
<b>BIO 3340</b> (4) Zoology	<b>BIO 4400</b> (1) Teaching in the Lab
<b>BIO 3450</b> (1-3) Independent Study	<b>BIO 4751</b> (3) Adv. Molec. & Cell Biol.
<b>BIO 3451</b> (1-3) Undergraduate Research	<b>BIO 4800</b> (2) Research Techniques
<b>BIO 3460</b> (4) Clinical Rotation	<b>BIO 4810</b> (4) Plant Ecology
<b>BIO 3610</b> (3) Survey of Algae & Fungi	<b>BIO 4812</b> (3) Fisheries Ecology & Mgmt
<b>BIO 3612</b> (3) Plant Evolution & Diversity	<b>BIO 4814</b> (3) Conservation Biology
<b>BIO 3620</b> (4) Funct. Comp. Anatomy	<b>BIO 4816</b> (3) Biotic Communities
<b>BIO 3622</b> (4) Embryology	<b>BIO 4818</b> (4) Environmental Microbiology
<b>BIO 3624</b> (3) Histology	<b>BIO 4820</b> (4) Spatial Analysis for Environmental Sciences
<b>BIO 3628</b> (4) Evolutionary Medicine	<b>BIO 4830</b> (3) Comp. Vertebrate Physiology
<b>BIO 3710</b> (3) Plant-Animal Interactions	<b>BIO 4832</b> (4) Animal Behavior
<b>BIO 3720</b> (4) Entomology	
<b>BIO 3740</b> (3) Clinical Mycology	

### SOCIAL/BEHAVIORAL SCIENCE: 9 HRS

Must be from two different disciplines. One course must meet Cultural & Diversity requirement

COURSE	HOURS	GRADE	SEMESTER
<b>PSY 1879G</b> Intro to Psychology	3		
<b>PHY 2500G</b> * Intro to Ethics ( <i>suggested</i> )	3		
	3		

### FOREIGN LANGUAGE: 0-8 HRS

Exempt if 2 yrs in high school with "C" average.

COURSE	HOURS	GRADE	SEMESTER
<b>WL</b> _____ <b>G</b>	4		
<b>WL</b> _____ <b>G</b>	4		

### SCIENCE AWARENESS: 7 HRS

Complete in major.

### MATHEMATICS: 3 HRS

Complete in major.

MATH COURSES	HOURS	GRADE	SEMESTER
<b>MAT 2110G</b> * Brief Calculus	3		
<b>BIO 4750</b> * Statistic Anly of Sci Data <b>OR MAT 2250G</b> * Elementry Statistics	4		
CHEMISTRY COURSES	HOURS	GRADE	SEMESTER
<b>CHM 1310G</b> General Chemistry I	3		
<b>CHM 1315G</b> General Chemistry I Lab	1		
<b>CHM 1410</b> * General Chemistry II	3		
<b>CHM 1415</b> * General Chemistry II Lab	1		
<b>CHM 2440</b> * Organic Chemistry I	3		
<b>CHM 2445</b> * Organic Chemistry I Lab	1		

\*Additional prerequisite classes may be required. See Undergraduate Catalog

#Required by some veterinary medical schools

\*Recommended by some veterinary medical schools

Additional Requirements for SOME schools: Medical Terminology, Biochemistry Lab; Animal Nutrition (not offered at EIU - offered online at other universities)

COURSE	HOURS	GRADE	SEMESTER
<b>BIO 3620</b> * Functional Comp. Anatomy	4		
<b>BIO 4958</b> * Parasitology	4		
<b>CHM 2840</b> # Organic Chemistry II	3		
<b>CHM 2845</b> # Organic Chemistry II Lab	1		
<b>CHM 3450</b> # Biochemistry	3		

<b>BIO 4833</b> (4) Neurobiology of Diseases	<b>BIO 4952</b> (3) Herpetology
<b>BIO 4834</b> (4) Neurobiology	<b>BIO 4954</b> (3) Ornithology
<b>BIO 4835</b> (4) Advanced Neurobiology	<b>BIO 4956</b> (3) Mammalogy
<b>BIO 4836</b> (4) Pathogenic Microbiology	<b>BIO 4958</b> (4) Parasitology
<b>BIO 4892</b> (4) Intro. Paleobotany	<b>BIO 4960</b> (3) Wetland & Aqua. Vasc. Plants
<b>BIO 4914</b> (3) Plant Anatomy	<b>BIO 4984</b> (3) Evolutionary Biology
<b>BIO 4920</b> (3) Medicinal Plants	
<b>BIO 4940</b> (3) Phycology	
<b>BIO 4942</b> (3) Mycology	
<b>BIO 4944</b> (3) Lichens	
<b>BIO 4946</b> (3) Bryology	
<b>BIO 4948</b> (3) Plant Taxonomy	
<b>BIO 4950</b> (3) Ichthyology	

Courses numbered 5000-5499 inclusive, may be taken by a senior whose graduation requirements average 2.75 or higher, with the permission of the instructor and the Dean of the Graduate School.

### GRADUATION REQUIREMENTS:

<input type="checkbox"/> 120 Hours
<input type="checkbox"/> 40 SH of upper division courses (3000+)
<input type="checkbox"/> 30 SH in residence at EIU
<input type="checkbox"/> 30 SH junior-senior residency
<input type="checkbox"/> 12 SH senior residency
<input type="checkbox"/> 2.00 Cumulative GPA

<input type="checkbox"/> 2.00 Major GPA
<input type="checkbox"/> Cultural Diversity
<input type="checkbox"/> Application for Graduation (First semester junior year)
<input type="checkbox"/> Electronic Writing Portfolio 1 <input type="checkbox"/> 2 <input type="checkbox"/>
See <a href="http://www.eiu.edu/~assess/">www.eiu.edu/~assess/</a> for requirements

# BIO-VETERINARY MEDICINE

Admission into veterinary school is very competitive. Although many of the veterinary medical colleges do not require a bachelor's degree for entrance, most students admitted will have completed a bachelor's degree. Students should maintain a grade point average near or above 3.50/4.00, acquire leadership skills, extensive/diverse experience in veterinary medicine, and obtain 63% on the Graduate Record Exam (GRE) to be competitive. Students apply through a centralized application service Veterinary Medical College Application Service (VMCAS) in June between the junior and senior years. Apply Early! At least three letters of recommendation are required, typically 1 from a science professor and 1 from a veterinarian. The last letter can be from the student's choosing.

**Each of the 30 veterinary programs have different requirements. It is very important to identify early which programs you plan to apply and plot out their requirements accordingly.**

## WHAT MAKES YOU UNIQUE FROM OTHER APPLICANTS?

### ANIMAL CARE EXPERIENCE

- Seek out volunteer or work experience that affords you the opportunity to work with animals: zoos, refuges, veterinary clinics, agribusiness, etc.
- Handling diversification: Large and small animals, exotics, reptiles, etc.

### LEADERSHIP EXPERIENCE

Veterinarians are leaders in their communities and demonstrated leadership skills are a must. Campus, church and community organizations provide excellent leadership opportunities.

## RESOURCES:

**Association of American Veterinary Medical Colleges**  
[www.aavmc.org](http://www.aavmc.org)

**American Veterinary Medical Association**  
[www.avma.org](http://www.avma.org)

**Veterinary Medical College Application Service**  
[www.vmcas.org](http://www.vmcas.org)

**University of Illinois**  
[www.vetmed.illinois.edu](http://www.vetmed.illinois.edu)

**University of Missouri**  
[www.cvm.missouri.edu](http://www.cvm.missouri.edu)

**Purdue University**  
[www.vet.purdue.edu](http://www.vet.purdue.edu)

## SUGGESTED 4-YEAR SEQUENCE

### YEAR 1 MUST EARN 30+ SH FOR SOPHOMORE STATUS

FALL		SPRING	
ENG 1001G	3	ENG 1002G	3
CHM 1310G/1315G	4	CHM 1410/1415	4
BIO 1500	4	BIO 1550G	4
BIO 1150	1	<sup>1</sup> Gen Ed Elective	3
<sup>1</sup> Gen Ed Elective	3	<sup>2</sup> MAT Prereq	3
Total	15	Total	17

### YEAR 2 MUST EARN 60+ SH FOR JUNIOR STATUS

FALL		SPRING	
BIO 3120	4	CHM 2840/2845	4
CHM 2440/2445	4	BIO 3200	4
MAT 2110G	3	BIO Elective >3000	4
<sup>1</sup> Gen Ed Elective	3	<sup>1</sup> Gen Ed Elective	3
Total	14	Total	15

### YEAR 3 MUST EARN 90+ SH FOR SENIOR STATUS

FALL		SPRING	
PHY 1151G/1152G (Fall ONLY)	4	PHY 1161/1162 (Spring ONLY)	4
CHM 3450 (Fall ONLY)	3	BIO 3620	4
BIO 3520 (Fall ONLY)	4	BIO Elective >3000	3
BIO 4750 OR MAT 2250G	4	<sup>3</sup> Free Elective	3
GRE Prep		GRE Exam/Apply to Vet Med School	
Total	15	Total	14

### YEAR 4 MUST EARN 120 SH TO GRADUATE

FALL		SPRING	
EIU 4XXXG	3	BIO 3180	4
CMN 1310G	3	BIO Elective >3000	3
BIO 3300	4	<sup>1</sup> Gen Ed Elective	3
<sup>1</sup> Gen Ed Elective	3	<sup>3</sup> Free Elective	3
Vet Med School Admission Interviews		Exit Interview	
Total	13	Total	13

<sup>1</sup> General Education Elective

<sup>2</sup> See Math Placement

<sup>3</sup> Take course that was not previously taken

The suggested schedule sequence assumes that the foreign language requirement has been completed.

## NOTES, QUESTIONS, MINOR REQUIREMENTS: