



BIO-VETERINARY MEDICINE

AT EASTERN ILLINOIS UNIVERSITY

NAME	
E NUMBER	
CATALOG	

2025-2026

GENERAL REQUIREMENTS: 40 HRS

LANGUAGE#: 9 HRS

Grade of "C" or better is required.

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

HUMANITIES/FINE ARTS: 9 HRS

COURSE	HOURS	GRADE	SEMESTER
Humanities _____	3		
Fine Arts _____	3		
Humanities or Fine Arts _____	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
EIU _____	3		

*SCIENCE CORE: 56 HRS

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

SOCIAL/BEHAVIORAL SCIENCE: 9 HRS

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

COURSE	HOURS	GRADE	SEMESTER
PSY 1879G[^] Intro to Psychology	3		
	3		
	3		

FOREIGN LANGUAGE: 0-8 HRS

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

COURSE	HOURS	GRADE	SEMESTER
WL _____ G	4		
WL _____ G	4		

SCIENCE AWARENESS: 7 HRS

Complete in major.

MATHEMATICS: 3 HRS

Complete in major.

MATH COURSES	HOURS	GRADE	SEMESTER
^{&} MAT 2110G Brief Calculus	3		
BIO 4750 Statistic Anly of Sci Data OR MAT 2250G Elementary Statistics	4		
CHEMISTRY COURSES	HOURS	GRADE	SEMESTER
CHM 1310G General Chemistry I	3		
CHM 1315G General Chemistry I Lab	1		
CHM 1410 General Chemistry II	3		
CHM 1415 General Chemistry II Lab	1		
CHM 2440 Organic Chemistry I	3		
CHM 2445 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

[&]Biological Sciences Major Requirement - Not necessarily required by vet med schools

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

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.

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

COURSE	HOURS	GRADE	SEMESTER
BIO 3620[#] Functional Comp. Anatomy	4		
BIO 4958[^] Parasitology	4		
CHM 2840[#] Organic Chemistry II	3		
CHM 2845[#] Organic Chemistry II Lab	1		
CHM 3450[#] Biochemistry	3		

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

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| <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 |

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| <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 www.eiu.edu/~assess/ 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 and community organizations provide excellent leadership opportunities.

RESOURCES:

Association of American Veterinary Medical Colleges
www.aavmc.org

American Veterinary Medical Association
www.avma.org

Veterinary Medical College Application Service
www.vmcas.org

University of Illinois
www.vetmed.illinois.edu

University of Missouri
www.cvm.missouri.edu

Purdue University
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	¹ Gen Ed Elective	3
¹ Gen Ed Elective	3	² 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
¹ Gen Ed Elective	3	¹ 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	³ Free Elective <i>Apply to Vet Med School</i>	3
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	¹ Gen Ed Elective	3
¹ Gen Ed Elective	3	³ Free Elective	3
<i>Vet Med School Admission Interviews</i>		<i>Exit Interview</i>	
Total	13	Total	13

¹ General Education Elective

² See Math Placement

³ Take course that was not previously taken

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

Many courses have prerequisites. See Undergraduate Catalog.

NOTES, QUESTIONS, MINOR REQUIREMENTS: