BIO-VETERINARY

DEPARTMENT OF BIOLOGICAL SCIENCES
AT EASTERN ILLINOIS UNIVERSITY

NAME	
E NUMBER	
CATALOG	

SP21

Clear Form

GENERAL EDUCATION: 30-38 HRS

LANGUAGE: 9 HRS

Course	Hours	Grade	Semester
ENG 1001G Composition & Language	3		
ENG 1002G Composition & Literature	3		
CMN 1310G Intro to Speech	3		

Grade of "C" or better is required

SCIENCE AWARENESS: 7HRS

Completed in major.

MATHEMATICS: 3-5 HRS

Completed in major.

HUMANITIES/FINE ARTS*: 9 HRS

Course	Hours	Grade	Semester
Humanities	3		
Fine Arts	3		
Humanities / Fine Arts	3		

SOCIAL/BEHAVIORAL SCIENCES*: 9 HRS

Course	Hours	Grade	Semester
PSY 1879G Intro to Psychology	3		
PHI 2500G^ Intro to Ethics *(suggested)*	3		
	3		

SENIOR SEMINAR: 3 HRS

Course	Hours	Grade	Semester
EIU _____	3		

Seminar topic must be outside the major area. See Undergraduate Catalog for Senior Seminars that exclude Biological Sciences majors.

FOREIGN LANGUAGE: 0-8 HRS

EXEMPT? ☐ YES ☐ NO

Exempt if 2yrs in high school of a single foreign language with average grade of "C" or better.

Course	Hours	Grade	Semester

** One course must meet Cultural Diversity requirement.*

SCIENCE CORE: 51-53 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 and Evolution	4		
Physics Courses	*Hours*	*Grade*	*Semester*
PHY 1151G* Principles Physics I	3		
PHY 1152G* Principles Physics I Lab	1		
PHY 1161G* Principles Physics II	3		
PHY 1162G* Principles Physics II Lab	1		

Math Courses	Hours	Grade	Semester
MAT 2110G* Brief Calculus	3		
BIO 4750 Statistical Anly of Sci Data **OR MAT 2250G*** Elementary Statistics	4 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
Additional Requirements for SOME schools: Medical Terminology, Biochemistry Lab; Animal Nutrition (not offered at EIU - offered online at other universities)
Departmental Exit Interview is also required prior to leaving EIU.

MAJOR ELECTIVES: 21 HRS

21 hours of course work in Biological Sciences (with the exception of **BIO 3400**, workshops, and courses designed for General Education) or Mathematics or Physical Sciences courses above 2000 (with the exception of general education and **CHM 2310**). A minimum of 15 hrs must be taken in Biological Sciences.

Course	Hours	Grade	Semester
BIO 3300# Microbiology	3		
BIO 3620 Funct. Comp. Anatomy	4		
BIO 4958# Parasitology	4		
CHM 2840 Organic Chemistry II	3		
CHM 3845 Organic Chemistry II Lab	1		
CHM 3450# Biochemistry	3		

BIO 2210 (4) Anatomy and Physiology I
BIO 3210 (4) Immunology
BIO 3300 (4) General Microbiology
BIO 3312 (3) Horticulture
BIO 3322 (3) Dendrology
BIO 3450 (1-3) Independent Study
BIO 3451 (1-3) Undergraduate Research
BIO 3610 (3) Survey of Algae & Fungi
BIO 3612 (3) Plant Evolution & Diversity
BIO 3620 (4) Funct. Comp. Anatomy
BIO 3622 (4) Embryology
BIO 3624 (3) Histology
BIO 3628 (4) Evolutionary Medicine
BIO 3690 (4) Clinical Rotation
BIO 3710 (3) Plant-Animal Interactions
BIO 3720 (4) Entomology
BIO 3740 (3) Clinical Mycology
BIO 3810 (3) Freshwater Ecology
BIO 3850 (3) Environmental Biology
BIO 3888G (3) Tropical/Marine Ecology
BIO 3950 (3) Vertebrate Natural History
BIO 3952 (3) Invertebrate Natural History
BIO 3960 (1-4) Special Topics
BIO 4400 (1) Teaching in the Lab
BIO 4751 (3) Adv. Molec. & Cell Biol.
BIO 4800 (2) Research Techniques
BIO 4810 (4) Plant Ecology
BIO 4812 (3) Fisheries Ecology & Mgmt
BIO 4814 (3) Conservation Biology
BIO 4816 (3) Biotic Communities
BIO 4818 (4) Environmental Microbiology
BIO 4820 (4) Spatial Analysis for Environmental Sciences
BIO 4830 (3) Comp. Vertebrate Physiology
BIO 4832 (4) Animal Behavior
BIO 4833 (4) Neurobiology of Diseases
BIO 4834 (3) Neurobiology
BIO 4835 (3) Advanced Neurobiology
BIO 4836 (4) Pathogenic Microbiology
BIO 4892 (4) Intro. Paleobotany
BIO 4914 (3) Plant Anatomy
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
BIO 4952 (3) Herpetology
BIO 4954 (3) Ornithology
BIO 4956 (3) Mammalogy
BIO 4958 (4) Parasitology
BIO 4960 (3) Wetland & Aqua. Vasc. Plants
BIO 4984 (3) Organic Evolution

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.

BE PREPARED: UPDATE THIS FORM BEFORE MEETING WITH YOUR ADVISOR

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

American Vet Medical
www.avma.org

Veterinary Medical College Application Serv
www.vmcas.org

University of Illinois
www.vetmed.illinois.edu

University of Missouri
www.cvm.missouri.edu

SAMPLE COURSE SEQUENCE:

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

FRESHMAN	
FALL	**SPRING**
ENG 1001G **CHM 1310G/1315G** **BIO 1500** **BIO 1150** **Gen Ed Elective**	**ENG 1002G** **CHM 1410G/1415G** **BIO 1550G** **Gen Ed Elective** **MAT Prereq or Stats**
SOPHOMORE	
FALL	**SPRING**
BIO 3120 **CHM 2440/2445** **MAT 2110G** **Gen Ed Elective**	**CHM 2840/2845** **BIO 3200** **BIO Elective >3000** **Gen Ed Elective**
JUNIOR	
FALL	**SPRING**
CHEM 3450 **PHY 1151G/1152G** (Fall ONLY) **BIO 3520** **BIO Elective >3000** *GRE Prep*	**BIO 4750 OR MAT 2250G** *(if not taken in FRESHMAN SPR)* **PHY 1161/1162** (Spring ONLY) **BIO 3620** **Free Elective** *GRE Exam/Apply to Vet Med School*
SENIOR	
FALL	**SPRING**
EIU 4*G** **CMN 1310G** **BIO Elective >3000** **Gen Ed Elective** **Free Elective** *Vet Med School Admission Interviews*	**BIO 3180** **BIO Elective >3000** **Gen Ed Elective** **Free Elective** *Exit Interview*