



# BIO-VETERINARY

DEPARTMENT OF BIOLOGICAL SCIENCES  
AT EASTERN ILLINOIS UNIVERSITY

NAME	
E NUMBER	
CATALOG	

F17

## 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
PHI 1000G Intro to Philosophy	3		
Fine Arts	3		
Humanities / Fine Arts	3		

## SOCIAL/BEHAVIORAL SCIENCES\*: 9 HRS

Course	Hours	Grade	Semester
PSY 1879G Intro to Psychology	3		
SOC 1838G Intro to Sociology	3		
PHI 2500G Intro to Ethics	3		

\* One course must meet Cultural Diversity requirement.

### SENIOR SEMINAR: 3 HRS

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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.


## 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		
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

\*BIO 2210 (Anatomy and Physiology I) prerequisite. BIO 2210 counts as BIO elective credit.

Additional Requirements: CPR, Medical Terminology

## 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 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		

\* Required by some Pharmacy Schools

BIO 2210 (4) Anatomy and Physiology I	BIO 3952 (3) Invertebrate Natural History	BIO 4914 (3) Plant Anatomy
BIO 3210 (4) Immunology	BIO 3960 (1-4) Special Topics	BIO 4920 (3) Medicinal Plants
BIO 3300 (4) General Microbiology	BIO 4400 (1) Teaching in the Lab	BIO 4940 (3) Phycology
BIO 3312 (3) Horticulture	BIO 4751 (3) Adv. Molec. & Cell Biol.	BIO 4942 (3) Mycology
BIO 3322 (3) Dendrology	BIO 4800 (2) Research Techniques	BIO 4944 (3) Lichens
BIO 3450 (1-3) Independent Study	BIO 4810 (4) Plant Ecology	BIO 4946 (3) Bryology
BIO 3451 (1-3) Undergraduate Research	BIO 4812 (3) Fisheries Ecology & Mgmt	BIO 4948 (3) Plant Taxonomy
BIO 3610 (3) Survey of Algae & Fungi	BIO 4814 (3) Conservation Biology	BIO 4950 (3) Ichthyology
BIO 3612 (3) Plant Evolution & Diversity	BIO 4816 (3) Biotic Communities	BIO 4952 (3) Herpetology
BIO 3620 (4) Funct. Comp. Anatomy	BIO 4818 (4) Environmental Microbiology	BIO 4954 (3) Ornithology
BIO 3622 (4) Embryology	BIO 4820 (4) Spatial Analysis for Environmental Sciences	BIO 4956 (3) Mammalogy
BIO 3624 (3) Histology	BIO 4830 (3) Comp. Vertebrate Physiology	BIO 4958 (4) Parasitology
BIO 3628 (4) Evolutionary Medicine	BIO 4832 (4) Animal Behavior	BIO 4960 (3) Wetland & Aq. Vasc. Plants
BIO 3690 (4) Clinical Rotation	BIO 4833 (4) Neurobiology of Diseases	BIO 4984 (3) Organic Evolution
BIO 3710 (3) Plant-Animal Interactions	BIO 4834 (3) Neurobiology	
BIO 3720 (4) Entomology	BIO 4835 (3) Advanced Neurobiology	
BIO 3740 (3) Clinical Mycology	BIO 4836 (4) Pathogenic Microbiology	
BIO 3810 (3) Freshwater Ecology	BIO 4892 (4) Intro. Paleobotany	
BIO 3850 (3) Environmental Biology		
BIO 3888G (3) Tropical/Marine Ecology		
BIO 3950 (3) Vertebrate Natural History		

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 college 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 college instructor and 1 from a veterinarian. The last letter can be from the student's choosing.

Each of the 28 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 Vet Medical**

[www.avma.org](http://www.avma.org)

### **Veterinary Medical College Application Serv**

[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)

## **SAMPLE COURSE SEQUENCE:**

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

<b>FRESHMAN</b>	
<b>FALL</b>	<b>SPRING</b>
ENG 1001G CHM 1310/1315 BIO 1500	ENG 1002G CHM 1410/1415 BIO 1550G
<b>SOPHOMORE</b>	
<b>FALL</b>	<b>SPRING</b>
BIO 3120 CHM 2440/2445 Behavioral/Soc PHI 2500	CHM 2840/2845 Hum/FA Elect. MAT 2250G MAT 2110
<b>JUNIOR</b>	
<b>FALL</b>	<b>SPRING</b>
CHEM 3450 PHY 1151G/1152G	PHY 1161/1162 GRE Exam Exit Interview
<b>SUMMER</b>	
VMCAS Application	