

NAME	
E NUMBER	
CATALOG	

SP20

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

Grade	Semester
	Grade

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

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		
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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 4810 (4) Plant Ecology BIO 4812 (3) Fisheries Ecology & Mgmt BIO 4814 (3) Conservation Biology

BIO 4800 (2) Research Techniques

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 4920 (3) Medicinal Plants BIO 4940 (3) Phycology BIO 4942 (3) Mycology BIO 4944 (3) Lichens

BIO 4914 (3) Plant Anatomy

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.

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

^{*}Required by some veterinary medical schools

^{&#}x27;Recommended by some veterinary medical schools

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 BIO 3520 BIO Elective >3000 GRE Prep	PHY 1161/1162 BIO 4750 OR MAT 2250G (if not taken in FRESHMAN SPR) BIO 3620 Free Elective GRE Exam/Apply to Vet Med School			
SENIOR				
FALL	SPRING			
EIU 4*** 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			