



BIO-PHARMACY

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		
ECN 2800G Economics of Soc Issues	3		

* One course must meet Cultural Diversity requirement.

SENIOR SEMINAR: 3 HRS

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.

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 2220* Anatomy & Physiology II	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.

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 2210 Anatomy and Physiology I	4		
CHM 2840 Organic Chemistry II	3		
CHM 2845 Organic Chemistry II Lab	1		
CHM 3450 *Biochemistry	3		

* Required by some Pharmacy Schools

BIO 2210 (4) Anatomy and Physiology I	BIO 3950 (3) Vertebrate Natural History	BIO 4892 (4) Intro. Paleobotany
BIO 3210 (4) Immunology	BIO 3952 (3) Invertebrate Natural History	BIO 4914 (3) Plant Anatomy
BIO 3300 (4) General Microbiology	BIO 3960 (1-4) Special Topics	BIO 4920 (3) Medicinal Plants
BIO 3312 (3) Horticulture	BIO 4400 (1) Teaching in the Lab	BIO 4940 (3) Phycology
BIO 3322 (3) Dendrology	BIO 4751 (3) Adv. Molec. & Cell Biol.	BIO 4942 (3) Mycology
BIO 3450 (1-3) Independent Study	BIO 4800 (2) Research Techniques	BIO 4944 (3) Lichens
BIO 3451 (1-3) Undergraduate Research	BIO 4810 (4) Plant Ecology	BIO 4946 (3) Bryology
BIO 3610 (3) Survey of Algae & Fungi	BIO 4812 (3) Fisheries Ecology & Mgmt	BIO 4948 (3) Plant Taxonomy
BIO 3612 (3) Plant Evolution & Diversity	BIO 4814 (3) Conservation Biology	BIO 4952 (3) Herpetology
BIO 3620 (4) Funct. Comp. Anatomy	BIO 4816 (3) Biotic Communities	BIO 4954 (3) Ornithology
BIO 3622 (4) Embryology	BIO 4818 (4) Environmental Microbiology	BIO 4956 (3) Mammalogy
BIO 3624 (3) Histology	BIO 4820 (4) Spatial Analysis for Environmental Sciences	BIO 4960 (3) Wetland & Aqua. Vasc. Plants
BIO 3628 (4) Evolutionary Medicine	BIO 4830 (3) Comp. Vertebrate Physiology	BIO 4984 (3) Organic Evolution
BIO 3690 (4) Clinical Rotation	BIO 4832 (4) Animal Behavior	
BIO 3700 (4) Parasitology	BIO 4833 (4) Neurobiology of Diseases	
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 3850 (3) Environmental Biology		
BIO 3888G (3) Tropical/Marine Ecology		

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

Pharmacists are the licensed health care professionals that dispense medications and provide information to patients on their medications. They advise other health care professionals on the selection, dosages, interactions, and side effects of medications.

To prepare for a career in pharmacy, a student must complete a Doctor of Pharmacy (Pharm. D.) degree at a professional college of pharmacy. A Pharm.D. degree consists of 4 academic years of professional education. Although it is possible to apply for a Pharm.D. program after completing 60 semester hours at the undergraduate level, it is not the norm. Many students complete at least 3 years of undergraduate education, while most complete their baccalaureate degree. A "C" or better is required of all prerequisite coursework and a minimum of a 2.5 gpa, although the average accepted student has around a 3.5 gpa. Over half of those accepted into the pharmacy programs have had volunteer/shadow/work experience in pharmacy. Most pharmacy programs expect at least 2 letters of recommendation: 1 science faculty and 1 work/volunteer pharmacy experience.

Most pharmacy programs utilize the PharmCAS application service (www.pharmcas.org). Applicants can apply as early as the summer one year prior to when they plan to enter a program and must take the PCAT exam. The PCAT (Pharmacy College Admissions Test) is offered four times a year: June, August, October and January. The potential applicant needs to take the PCAT no later than October of the year prior to entry. The PCAT has 5 sections: Verbal ability, Quantitative ability, Biology, Chemistry and Reading Comprehension. Scores range from 100-300 with the minimal accepted score in the 50th percentile.

WHAT MAKES YOU UNIQUE FROM OTHER APPLICANTS?

Healthcare Experience

- *Volunteer or work: hospitals, clinics, nursing homes, assisted living centers, crisis nursery, rehab centers are a few examples.*
- *Shadow/volunteer/work with pharmacists in a variety of settings.*

Leadership Experience

Pharmacists are leaders. Demonstrated leadership skills are a must. Campus, church, and community organizations provide excellent leadership opportunities.

RESOURCES:

American Association of Colleges of Pharmacy

www.aacp.org

Chicago College of Pharmacy, Northwestern University

www.northwestern.edu/ccp

Chicago State University College of Pharmacy

www.csu.edu/pharmacy/

Roosevelt University

www.roosevelt.edu/Pharmacy

Rosalind Franklin University, North Chicago, IL

rosalindfranklin.edu/collegeofpharmacy/

Southern Illinois College of Pharmacy

www.siu.edu/pharmacy/

University of Illinois at Chicago College of Pharmacy

www.uic.edu/pharmacy