

NAME	
E NUMBER	
CATALOG	

2023-2024

GENERAL REQUIREMENTS: 30-38 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
PHI 1000G/1900G [^]	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		

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		
ECN 2800 OR 2801 OR 2802# Economics of Social Issues/Macro/Micro	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.

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 2220 ⁺ Anatomy & Physiology II	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		

MATH COURSES	HOURS	GRADE	SEMESTER
MAT 2110G* Brief Calculus	3		
BIO 4750° Statistic Anly of Sci Data OR MAT 2250G° Elementry 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		

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.

BIO 2	2210	(4) Anatomy and Physiology I
BIO 3	3035	(3) Economic Botany
BIO 3	3210	(4) Immunology
BIO 3	312	(3) Horticulture
BIO 3	3322	(3) Dendrology
		(4) Introduction to Botany
		(4) Zoology
BIO 3	3450	(1-3) Independent Study
BIO 3	3451	(1-3) Undergraduate Research
BIO 3	3460	(4) Clinical Rotation
BIO 3	3610	(3) Survey of Algae & Fungi
		(3) Plant Evolution & Diversity
BIO 3	3620	(4) Funct. Comp. Anatomy
BIO 3	3622	(4) Embryology
BIO 3	3624	(3) Histology
		(4) Evolutionary Medicine
		(3) Plant-Animal Interactions
		(4) Entomology
		(3) Clinical Mycology
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DIO 2040 (2) E
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 Physi-
ology
BIO 4832 (4) Animal Behavior

COURSE	HOURS	GRADE	SEMESTER
BIO 2210 Anatomy & Physiology	4		
CHM 2840# Organic Chemistry II	3		
CHM 2845# Organic Chemistry II Lab	1		
CHM 3450# Biochemistry	3		

BIO 4833 (4) Neurobiology of Diseases BIO 4834 (4) Neurobiology BIO 4835 (4) 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 4950 (3) Ichthyology

BIO 4948 (3) Plant Taxonomy

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) Evolutionary Biology

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:

120 Hours
40 SH of upper division courses (3000+)
30 SH in residence at EIU
30 SH junior-senior residency
12 SH senior residency
2.00 Cumulative GPA

2.00 Major GPA		
Cultural Diversity		
Application for Graduation (First semester junior year)		
Electronic Writing Portfolio 1 2 2		
See www.eiu.edu/~assess/ for requirements		

^{*}Additional prerequisite classes may be required. See Undergraduate Catalog +BIO 2210 (Anatomy and Physiology I) prerequisite. BIO 2210 counts as BIO elective credit. #Required by some pharmacy schools

[^]Recommended by some pharmacy schools

Departmental Exit Interview is also required prior to leaving EIU.

BIO-PHARMACY

Pharmacists are essential healthcare professionals who enhance patient care and promote wellness. When pharmacists are involved in patient care, outcomes improve and costs decline. Pharmacy is a diverse and rewarding career, with opportunities for patient care, scientific research and innovation.

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 in all prerequisite coursework and a minimum of a 2.5 GPA are required, although the average accepted student has around a 3.5 GPA.

Pharmacy colleges encourage or require applicants to have volunteer or paid experience working with patients in a pharmacy or health-related setting (hospital, nursing home, etc.). Ongoing work or volunteer experience in a pharmacy setting may be an important factor in the admissions process. Most pharmacy degree programs require 1-4 letters of recommendation typically from a science professor and a pharmacist.

Most pharmacy programs utilize the PharmCAS application service (www.pharmcas.org). Applicants can apply as early as July one year prior to when they plan to enter a program

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, Midwestern University www.midwestern.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.siue.edu/pharmacy/

University of Illinois at Chicago College of Pharmacy www.uic.edu/pharmacy

SUGGESTED 4-YEAR SEQUENCE

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YEAR 1 MUST EARN 30+ SH FOR SOPHOMORE STATUS FALL SPRING					
ENG 1001G BIO 1500 CHM 1310G/1315G BIO 1150 ¹ Gen Ed Elective	3 4 4 1 3	ENG 1002G BIO 1550G CHM 1410/1415 ¹ Gen Ed Elective ² MAT Prereq	3 4 4 3 3		
Total	15	Total	17		
YEAR 2 MUST EARN 60+ SH FOR JUNIOR STATUS FALL SPRING					
BIO 3120 CHM 2440/2445 MAT 2110G ¹ Gen Ed Elective	4 4 3 3	BIO 3200 CHM 2840/2845 BIO 2210 ¹ Gen Ed Elective	4 4 4 3		
Total	14	Total	15		
YEAR 3 MUST EARN 90+ SH FOR SENIOR STATUS FALL SPRING					
PHY 1151G/1152G (FA ONLY) BIO 2220 BIO 4750 OR MAT 2250G CHM 3450 (FA ONLY)	4 4 4 3	PHY 1161/1162 (SP ONLY) BIO 3300 CMN 1310G BIO Elective >3000 Apply to Pharmacy School	4 4 3 3		
Total	15	Total	14		
YEAR 4 MUST EARN 120 SH TO GRADUATE FALL SPRING					
EIU 4XXXG BIO Elective >3000 ¹Gen Ed Elective ³Free Elective Pharmacy School Admission Interviews	3 3 3	BIO 3180 BIO Elective > 3000 ¹ Gen Ed Elective ³ Free Elective Exit Interview	4 3 3 3		

¹ General Education Elective

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

NOTES, QUESTIONS, MINOR REQUIREMENTS:

² See Math Placement

³ Take course that was not previously taken