



BIO-PHYSICIAN ASSISTANT

AT EASTERN ILLINOIS UNIVERSITY

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
Humanities _____	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		

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		

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 2210** (4) Anatomy and Physiology I
- BIO 3035** (3) Economic Botany
- BIO 3210** (4) Immunology
- BIO 3312** (3) Horticulture
- BIO 3322** (3) Dendrology
- BIO 3330** (4) Introduction to Botany
- BIO 3340** (4) Zoology
- BIO 3450** (1-3) Independent Study
- BIO 3451** (1-3) Undergraduate Research
- BIO 3460** (4) Clinical Rotation
- 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 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

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		
PHI 2500G^ Intro to Ethics (<i>suggested</i>)	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.

MATH COURSES	HOURS	GRADE	SEMESTER
MAT 2110G* Brief Calculus	3		
BIO 4750* Statistic Anly of Sci Data	4		
OR MAT 2250G* Elementry Statistics			
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.

#Required by some physician assistant schools

^Recommended by some physician assistant schools

Additional Requirements: CPR Certification, Medical Terminology

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 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) 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:

<input type="checkbox"/> 120 Hours
<input type="checkbox"/> 40 SH of upper division courses (3000+)
<input type="checkbox"/> 30 SH in residence at EIU
<input type="checkbox"/> 30 SH junior-senior residency
<input type="checkbox"/> 12 SH senior residency
<input type="checkbox"/> 2.00 Cumulative GPA

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

BIO-PHYSICIAN ASSISTANT

Physician Assistants (PAs) are medical professionals who diagnose illness, develop and manage treatment plans, prescribe medications, and often serve as a patient's principal healthcare provider. With thousands of hours of medical training, PAs are versatile and collaborative.

PAs practice in every state and in every medical setting and specialty, improving healthcare access and quality. Scroll down to learn more about the PA profession and its commitment to improving and expanding health care.

PAs are educated at the master's degree level. There are more than 250 PA programs in the country and admission is highly competitive, requiring a bachelor's degree and completion of courses in basic and behavioral sciences as prerequisites. Incoming PA students bring with them an average of more than 3,000 hours of direct patient contact experience, having worked as paramedics, athletic trainers, or medical assistants, for example. PA programs are approximately 27 months (three academic years), and include classroom instruction and more than 2,000 hours PAs are educated at the master's degree level. There are more than 250 PA programs in the country and admission is highly competitive, requiring a bachelor's degree and completion of courses in basic and behavioral sciences as prerequisites. Incoming PA students bring with them an average of more than 3,000 hours of direct patient contact experience, having worked as paramedics, athletic trainers, or medical assistants, for example. PA programs are approximately 27 months (three academic years), and include classroom instruction and more than 2,000 hours of clinical rotations. Some programs may require the GRE or MCAT for admission. The average GPA of matriculants is 3.5/4.0. Attributes such as demonstrated caring attitude toward others, communication skills, emotional stability under stress and problem solving ability are important selection factors.

Each PA program has 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?

HEALTHCARE EXPERIENCE

- Needs to be hands-on, Hours/Months of experience often specified by particular programs
- Volunteer or work: hospitals, clinics, nursing homes, assisted living centers,
- crisis nursery, rehab centers are a few examples. Working in an ER, ambulance rides are excellent opportunities.
- Certified Nurses' Aide/EMT
- Military medic/Corpsman, Surgical Technician, Radiological Technician,
- Certified Laboratory Technician, Certified Pharmacy Technician,
- Phlebotomist, Athletic Trainer, Certified Physical Therapy Assistant
- Shadow physician assistants, visit schools etc.

LEADERSHIP EXPERIENCE

Physician Assistants are leaders in their communities and demonstrated leadership skills are a must. Campus, church, and community organizations provide excellent leadership opportunities.

SUGGESTED 4-YEAR SEQUENCE

YEAR 1 MUST EARN 30+ SH FOR SOPHOMORE STATUS			
FALL		SPRING	
ENG 1001G	3	ENG 1002G	3
BIO 1500	4	BIO 1550G	4
CHM 1310G/1315G	4	CHM 1410/1415	4
BIO 1150	1	¹ Gen Ed Elective	3
¹ Gen Ed Elective	3	² MAT Prereq	3
Total		Total	
15		17	
YEAR 2 MUST EARN 60+ SH FOR JUNIOR STATUS			
FALL		SPRING	
BIO 3120	4	BIO 3200	4
CHM 2440/2445	4	CHM 2840/2845	4
MAT 2110G	3	BIO 2210	4
¹ Gen Ed Elective	3	¹ Gen Ed Elective	3
Total		Total	
14		15	
YEAR 3 MUST EARN 90+ SH FOR SENIOR STATUS			
FALL		SPRING	
PHY 1151G/1152G (FA ONLY)	4	PHY 1161/1162 (SP ONLY)	4
BIO 2220	4	BIO 3300	4
BIO 4750 OR MAT 2250G	4	BIO Elective >3000	3
CHM 3450 (FA ONLY)	3	CMN 1310G	3
GRE [#] or MCAT Prep		GRE [#] OR MCAT Exam/ Apply to PA School	
Total		Total	
15		14	
YEAR 4 MUST EARN 120 SH TO GRADUATE			
FALL		SPRING	
EIU 4XXXG	3	BIO 3180	4
BIO Elective >3000	3	BIO Elective >3000	3
¹ Gen Ed Elective	3	¹ Gen Ed Elective	3
³ Free Elective PA School Admission Interviews	3	³ Free Elective Exit Interview	3
Total		Total	
12		13	

¹ General Education Elective

² See Math Placement

³ Take course that was not previously taken

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