



BIO-PATHOLOGIST 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
	3		
	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 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		

*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 pathologist's assistant schools

^Recommended by some pathologist's assistant schools

&Biological Sciences Major Requirement - Not necessarily required by PathA schools
Departmental Exit Interview is also required prior to leaving EIU.

COURSE	HOURS	GRADE	SEMESTER
BIO 2210 Anatomy & Physiology	4		
BIO 3210 [#] Immunology	4		
BIO 3624 [*] Histology	3		
CHM 2840 [#] Organic Chemistry II	3		
CHM 2845 [#] Organic Chemistry II Lab	1		
CHM 3450 [#] Biochemistry	3		
NUR 2613 [#] Medical Terminology	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-PATHOLOGIST ASSISTANT

A Pathologists' Assistant (PathA) is a highly trained, certified allied healthcare professional who is qualified by academic and practical training to provide various services in anatomic pathology under the direction and supervision of a licensed, Board Certified or Board Eligible Anatomic Pathologist. Pathologists' Assistants are academically and practically trained to provide accurate and timely processing of a variety of laboratory specimens, including comprehensive macroscopic examination and evaluation of all surgical pathological specimens. Pathologists' Assistants also perform postmortem examinations including prosection, assisting the Pathologist with rendering the provisional anatomic diagnosis, composing the clinical history, recording the macroscopic anatomic findings, and submitting tissue sections for microscopic examination. Pathologists' Assistants play a critical role in the delivery of healthcare services in both surgical pathology and autopsy pathology. They are key partners in assisting the Pathologist to arrive at a pathologic diagnosis, but it is the sole responsibility of the Pathologist to render a diagnosis.

The PathA degree is a Masters level degree. Students must attend and graduate from a NAACLS accredited PathA program and pass the ASCP certification exam. Programs are 22-24 months with the first year consisting of didactic coursework and the second year is a clinical rotation through several affiliated hospitals. The average entrant has competitive scores on the GRE, has a minimum grade point average of 3.00/4.00 and has completed shadowing with a Pathologist's Assistant in a surgical pathology laboratory. Attributes such as demonstrated caring attitude toward others, communication skills, emotional stability under stress and problem solving ability are important selection factors.

There are currently 12 NAACLS accredited PathA programs in the United States and Canada. It is very important when you begin your program to identify which programs you plan to apply and plot out their requirements accordingly.

RESOURCES

American Association of Pathologists' Assistants
www.pathassist.org

National Accrediting Agency for Clinical Laboratory Sciences
naacls.org

Rosalind Franklin University
www.rosalindfranklin.edu/academics/college-of-health-professions/degree-programs/pathologists-assistant-ms/

University of Toledo
www.utoledo.edu/med/depts/path/PA%20Program.html

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	15	Total	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	14	Total	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	CMN 1310G	3
CHM 3450 (FA ONLY)	3	BIO Elective >3000	3
GRE# or MCAT Prep		GRE# or MCAT Exam/ Apply to PathA School	
Total	15	Total	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	3	³ Free Elective	3
PathA School Admission Interviews		Exit Interview	
Total	12	Total	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.

Many courses have prerequisites. See Undergraduate Catalog.