



Health Science

PATHWAY: Biomedical/Technology

Have you ever wanted to study, research, or gain knowledge of human health, how to cure diseases, or understand how the human body functions?

COURSES IN YELLOW are pathway concentrator courses and must be finished with a **C- average or above** to meet Indiana's 3rd requirement to graduate. **COMPLETE ALL COURSES** below with a B- or above to graduate with **Academy recognition**.

COURSE NAME	GRADES AVAILABLE	LENGTH	DUAL (COLLEGE) CREDITS POSSIBLE	FULFILLS CORE 40 CREDITS AS...
PREREQUISITE FOR CONCENTRATOR COURSES PLTW Honors Principles of Biomedical Sciences <i>Must complete with a B- or above to continue in pathway</i>	9, 10	Year		Science
PLTW HONORS HUMAN BODY SYSTEMS (REQUIRED CONCENTRATOR COURSE) <i>Must complete with a B- or above to continue in pathway</i>	10, 11, 12	YEAR		SCIENCE
PLTW HONORS MEDICAL INTERVENTIONS (REQUIRED CONCENTRATOR COURSE)	11, 12	YEAR		SCIENCE
Honors Anatomy and Physiology <i>Must complete with a B- or above to continue in pathway</i>	11, 12	Year		
PLTW Biomedical Innovation	12	Year	4	

Acceptance into some courses may depend on meeting additional requirements listed in the COURSE OF STUDY GUIDE.

Must earn a specified certification or dual credit to graduate with Academy recognition. Apply your senior year.

Check out the list below for more courses related to this pathway - see the Course of Study Guide for details.

- AP Biology
- AP Chemistry
- Biology II
- Child Development
- Honors Anatomy and Physiology

- Life Guarding
- Life Guarding and Water Safety Instructor
- Medical Terminology
- Nutrition and Wellness
- PLTW Principles of Biomedical Sciences

Possible Careers Requiring 0-4 Years of Additional Training or Education	
<ul style="list-style-type: none"> • Biomedical, EKG, Lab, Pharmacy, or Radiology Technician • CSI Technician • Dental Assistant • Forensic DNA Analyst 	<ul style="list-style-type: none"> • Medical Assistant or Coder • MRI Technologist • Phlebotomist • Physical Therapy Assistant • Surgical Technologist

Possible Careers Requiring 4+ Years of Additional Training or Education	
<ul style="list-style-type: none"> • Biomedical or Forensic Scientist • Biotechnologist • Blood Spatter Analyst • Cardiologist • Crime Scene Investigator 	<ul style="list-style-type: none"> • Medicinal Chemist • Microbiologist • Nanotechnologist • Pathologist/Medical Examiner • Surgeon

Local Industry Partners			
CVS DePuy Clinical Research Element	Grossnickle Eye Center Indiana PT Instrumental Machine and Development	Pillbox Precision Medical Technologies Tecomet	YMCA Zale Drugs

THREE GRADUATION REQUIREMENTS	
THREE REQUIREMENTS	OPTIONS (Pick <u>at least one</u> in <u>EACH</u> box)
<p>1</p> <p>HIGH SCHOOL DIPLOMA</p> <p>Must complete <u>at least one</u> item Check all that apply</p>	<input type="checkbox"/> Core 40 <input type="checkbox"/> Core 40 with Academic Honors <input type="checkbox"/> Core 40 with Technical Honors
<p>2</p> <p>EMPLOYABILITY SKILLS</p> <p>Must complete <u>at least one</u> item Check all that apply</p>	<input type="checkbox"/> Project-Based Learning Experience <input type="checkbox"/> Service-Based Learning Experience <input type="checkbox"/> Work-Based Learning Experience
<p>3</p> <p>POSTSECONDARY-READY COMPETENCIES</p> <p>Must complete <u>at least one</u> item Check all that apply</p>	<input type="checkbox"/> Complete: Concentrator courses and their prerequisite courses (in YELLOW) from a pathway Maintain a C- average minimum in the CONCENTRATOR COURSES for that pathway Chosen pathway: _____ <input type="checkbox"/> Core 40 with Technical Honors diploma <input type="checkbox"/> Core 40 with Academic Honors diploma <input type="checkbox"/> AP/Dual Credit: Must earn a C- <u>average</u> or higher in at least three courses <input type="checkbox"/> ACT with college-ready benchmarks <input type="checkbox"/> SAT with college-ready benchmarks <input type="checkbox"/> ASVAB with minimum AFQT score to qualify for placement into one of the branches of the US military <input type="checkbox"/> State- and Industry-recognized credential or certification <input type="checkbox"/> State-, Federal-, or Industry-recognized apprenticeship

_____ 's Four-Year Plan

GRAD	English	Math	Science	Social Studies	Physical Education/ Health or 3 FACS	Elective Courses	Pathway and Academy Courses	Summer School Credits
		Fill blanks with electives	Fill blanks with electives	Fill blanks with electives	Fill blanks with electives		Fill blanks with electives	
7/8	Any middle school credits							
9	English 9	Algebra I	Biology I	World History Civ. A or B (9-10th grade)	Preparing for College & Careers			Session A before 9 th grade
	(continued)	(continued)	(continued)	World History Civ. A or B (9-10th grade)	PE credit			Session B before 9 th grade
10	English 10	Geometry	Chemistry I, or ICP, or Physics I		PE credit or waiver			Session A before 10 th grade
	(continued)	(continued)	(continued)		Health or 2 other qualifying FACS credits			Session B before 10 th grade
11	English 11	Algebra II	Qualifying Core 40 science of your choice	U.S. History				Session A before 11 th grade
	(continued)	(continued)	(continued)	(continued)				Session B before 11 th grade
12	English 12	Quantitative reasoning or math recommended		Government				Session A before 12 th grade
	(continued)			Economics (fulfills requirement for quantitative reasoning)				Session B before 12 th grade