

This is a planning aid only! See your Academic Advisor for complete information.

Pre-Medicine (SPM) Option

Updated 7.07; 8.08

Bolded courses are prerequisites for Indiana University School of Medicine.

Grade	Course	Credit Hours	Title
Biology Basic Core Courses (18 credits)			
	BIOL 107	1	Biol Freshman Experience
	BIOL 101	4	Intro to Biology 1
	BIOL 102	4	Intro to Biology 2
	BIOL 243	4	Intro Cell Biology
	BIOL 244	3	Genetics
	BIOL 244L	1	Genetics Lab
	BIOL 428	1	Senior Seminar
Biology Elective core courses – choose 2 (8 credits)			
	BIOL 316	4	Basic Microbiology
	BIOL 333	4	Ecology
	BIOL 357	4	Intro Animal Physiology
Biology Electives¹ (minimum 12 credits)			

¹ Biology electives must be 300 level or higher. BIOL 330 and 339 are not considered biology electives for this option. See bottom of next page for recommended biology electives for this option.

Chemistry (minimum 19 credits)			
	CHM 115	4	General Chemistry 1
	CHM 116	4	General Chemistry 2
	CHM 255	3	Organic Chemistry
	CHM 255L	1	Organic Chemistry Lab
	CHM 256	3	Organic Chemistry 2
	CHM 256L	1	Organic Chemistry Lab 2
	CHM 333	3	Principles of Biochemistry

Physics (minimum 8 credits)			
	PHYS 220	4	General Physics 1
	PHYS 221	4	General Physics 2

Mathematics²/Computer (minimum 12 credits)			
	MA 223	3	Intro Analysis 1 (Calculus)
	MA 224	3	Intro Analysis 2 (Calculus)
	BIOL 330 or STAT 301	3	Biostatistics Elem Stat Method
	Any CS, CIS or ITS	3	CS 342 or CIS 204 or 304 encouraged

² MA 163 and 164 Calculus I and II are geared towards engineering students. They may be used to replace MA 223 and 224

Grade	Course	Credit Hours	Title
English³/Communication (6-13 credits)			
	ENGL 100 ⁴	4	English Composition
	ENGL 104	3	English Composition 1
	ENGL 105	3	English Composition 2
	OR ENGL 108	3	Advanced English Comp *for qualified students instead of 104/105*
	COM 114	3	Fndmntls of Speech Comm

³ Based on placement evaluation, students may be placed in ENGL 100, 104 or 108.

⁴ With an A or B grade in ENGL 100, student can progress on to ENGL 105 without taking ENGL 104.

Humanities/Social Science Electives (min. 3 credits from each category 15 credits total -see back)			

Free Electives (19-26 credits) can be used for minor study area			

Preparatory Courses (0-12 Credits)			
<i>Based on placement evaluation, students may be placed in the following courses before taking CHM 115 and/or MA 223.</i>			
	CHM 100	3	Prep for Gen Chemistry
	MA 021 ⁵	0	Beginning Algebra
	MA 115	3	Intermediate Algebra
	MA 153	3	Algebra & Trig 1
	MA 154	3	Algebra & Trig 2
	or MA 159	5	Pre-Calculus (replaces MA 153/154)

⁵ Courses with course numbers below 100 do not count toward your degree. However, these courses will count toward full-time status.

Graduation Checklist:

- ___ **124 credits completed (not including course below 100 level or any F grades)**
- ___ **C grade or higher in BIOL 101/102 and**
- ___ **C average in all biology core courses**
- ___ **C average overall for all biology courses**
- ___ **32 credit at the 300 level and above at PUC**

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Pre-Medicine Option

EMS Freshman Advisor
Biological Sciences Advisors

Ms. Diane Trgovcich-Zacok, Gyte 181C, 219-989-4116, zacok@calumet.purdue.edu
Dr. Barbara Mania-Farnell, Gyte 286, 219-989-2014, bmania@calumet.purdue.edu

Medical School Notes: You do not need to be a pre-medicine major to apply to medical school. However, you must fulfill the prerequisite courses as identified on the previous page. Purdue University Calumet communicates with Indiana University School of Medicine to stay updated on this school's admission requirements. However, it is up to the individual student to make sure that his/her program satisfies the admission requirements for any medical school that he/she applies to. After completing the courses and 90 credit hours of undergraduate work, you can apply to medical school. However, most students will have completed at least a bachelor's degree before being accepted into the program. Deadline dates change from year to year. For more information on medical schools and the application process, go to <http://www.aamc.org> or for colleges of osteopathy, go to www.aacom.org. To apply, you must take the Medical College Admission Test (MCAT). Applicants must register on-line at www.aamc.org/MCAT. Average GPA of 2006 entering class was 3.73 and the average MCAT score was 10.1/P for IU School of Medicine.

SAMPLE Plan of Study

- ✓ The following sample plan of study may or may not apply to you. Please consult your advisor for an individual plan.
- ✓ **You must see your advisor to obtain your PIN each semester before registering for courses.**
- ✓ Please read the **PUC academic catalog** for full details of graduation requirements. The academic catalog is available online at <http://www.calumet.purdue.edu/catalog/>

Fall Semester	Spring Semester	May/Summer Semester
BIOL 107 (1) BIOL 101 (4) CHM 115 (4) ENGL 100 or 104 (4 or 3) COM 114 (3) Total semester credits 15-16	BIOL 102 (4) CHM 116 (4) Computer Elective (3) ENGL 105 (3) Total semester credits 14	
BIOL 243 or 244/244L (4) CHM 255/255L (4) MA 223 or Prep course (3) HUMANITIES/SOC SCI Elective (3) Free Electives (3) Total semester credits 15-17	BIOL 244/244L or 243 (4) CHM 256/256L (4) MA 224 or Prep course (3) HUMANITIES/SOC SCI Elective (3) Free Electives (3) Total semester credits 17	
BIOL 333 (4) PHYS 220 (4) HUMANITIES/SOC SCI Elective (3) BIOL or Free Elective (3) Total semester credits 14	BIOL 316 (4) CHM 333 (3) PHYS 221 (4) HUMANITIES/SOC SCI Elective (3) Free Elective (4) Total semester credits 18	Completed prerequisite courses and minimum 90 hours. Applications to IUPUI Medical School must be received by deadline date the year BEFORE you plan to attend.
BIOL Elective (6) HUMANITIES/SOC SCI Elective (3) Free Electives (6) Total semester credits 15	BIOL 330 (4) BIOL 428 (1) HUMANITIES/SOC SCI Elective (3) BIOL and Free Electives (8-9) Total semester credits 16-17	

Humanities and Social Science Credit Requirements: Minimum 3 credits should be in Humanities (philosophy, literature, history, music or creative arts classes) **AND** a minimum 3 credits in any Social Sciences (economics, political science, psychology, or sociology classes). Remaining credits can be from any Humanities/Social Science department.

Recommended Biology Electives

BIOL 340 Human Physiology
BIOL 507 Molecular Biol
BIOL 508 Recombinant DNA
BIOL 524 Microbiology

BIOL 525 Neurobiology
BIOL 533/534 Med Micro/Lab
BIOL 561 Immunology
BIOL 566 Developmental Biol

BIOL 595 Food Microbiology
BIOL 595 Medical Genetics
BIOL 595 Special Assignment
Directed Independent Research Project