

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

Pre-Optometry (SPO) Option

Updated 7.07; 8.08

Bolded courses are prerequisites or strongly recommended for IUPUI School of Optometry.

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)			
Chemistry (19 credits)			
	CHM 115	4	Gen Chemistry 1
	CHM 116	4	Gen 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 (8 credits)			
	PHYS 220	4	Gen Physics 1
	PHYS 221	4	Gen Physics 2
Mathematics²/Computer (12 credits)			
	MA 223	3	Intro Analysis 1 (Calculus)
	MA 224	3	Intro Analysis 2 (Calculus)
	BIOL 330 or STAT301	3	Biostatistics Elem Stat Method
	Any CS or CIS	3	CS 342 or CIS 204/304 encouraged

¹ Biology electives must be 300 level or higher. BIOL 330 and 339 are not considered biology electives for this option.

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	Accelerated 1 st Yr Composition (replaces ENGL100/104/105)
	COM 114	3	Fndmntls of Speech Comm
Humanities/Social Science Electives (min. 3 credits from each category 15 credits total -see back)			
	PSY 120	3	Elementary Psychology
	PHIL 111	3	Ethics (recommended)
Free Electives (26-29 credits)			
Can be used for minor study area			
	BIOL 213	4	Anatomy & Physiology I
	BIOL 214	4	Anatomy & Physiology II
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)

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.

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-Optometry Option

EMS Freshman Advisor
Biological Sciences Advisors

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Optometry School Notes: You do not need to be a pre-optometry major to apply to optometry school. However, you must fulfill the prerequisite courses as identified on the opposite side. Grades lower than a C in any pre-optometry requirement will not be accepted. Purdue University Calumet communicates with Indiana University School of Optometry 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 school that he/she applies to. After completing the required courses and 90 credit hours of undergraduate work, you can apply to optometry school. Of the 90 credit hours, at least 20 must be at the 300-400 level. If you choose to apply after 90 credit hours, there are additional academic requirements that must be met. You are responsible for understanding these additional requirements and making sure that your program covers the needed areas. Most applicants have an undergraduate degree. Applications to IUPUI Optometry School must be sent by Feb. 1st of the year you plan on attending. Deadline dates change from year to year. For more information on optometry schools and the application process go to: <http://www.opted.org/>.

To apply, you must take the Optometry Admissions Test (OAT) at least by October of the year BEFORE you plan on entering optometry school. Average GPA of 2006 entering class was 3.46 overall. OAT overall scores for the 2006 entering class were: 324 for the academic average and 325 for the total science average.

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 102 (4)		
BIOL 101 (4)		CHM 116 (4)		
CHM 115 (4)		Computer Elective (3)		
COM 114 (3)		ENGL 105 (3)		
ENGL 100 or 104 (4 or 3)				
Total semester credits 15-16		Total semester credits 14		
BIOL 213 (4)		BIOL 214 (4)		
BIOL 243 or 244/244L (4)		CHM 256/256L (4)		
CHM 255/255L (4)		MA 224 or Prep course (3)		
MA 223 or Prep course (3)		HUMANITIES/SOC SCI Elective (3)		
PSY 120 (3)		Free Electives (3)		
Total semester credits 18		Total semester credits 17		
BIOL 333 (4)		BIOL 244/244L or 243 (4)		Completed prerequisite courses and minimum 90 hours. Applications to IUPUI Optometry School must be sent by Feb. 1st of the year you plan on attending.
CHM 333 (3)		BIOL 316 (4)		
PHYS 220 (4)		PHYS 221 (4)		
HUMANITIES/SOC SCI Elective (3)		HUMANITIES/SOC SCI Elective (3)		
BIOL or Free Elective (3)		BIOL Elective (1-3)		
Total semester credits 17		Total semester credits 16-18		
TAKE OAT for early admission		Take OAT for regular admission		
BIOL and Free Electives (9-12)		BIOL 330 (4)		
HUMANITIES/SOC SCI Elective (3-6)		BIOL 428 (1)		
Total semester credits 12-15		BIOL and Free Electives (12-13)		
Take OAT for regular admission		Total semester credits 17-18		

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.

Suggested electives but not required by IUPUI: Small Business Management (1 semester), Medical Terminology (1 semester), Histology (1 semester), Ethics (1 semester), or Independent Research.