

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

Pre-Dentistry (SPD) Option

Updated 7.07; 8.08

Bolded courses are prerequisites for Indiana University School of Dentistry.

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

Optional core courses – choose 2 (8 credits)			
	BIOL 316	4	Basic Microbiology
	BIOL 333	4	Ecology
	BIOL 357 ¹	4	Intro Animal Physiology

¹ May substitute BIOL 213/214 for this option.

Biology Electives² (minimum 12 credits)			

² Biology electives must be 300 level or higher. BIOL 330 and 339 are not considered biology electives for this option.

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 minimum 8 credits			
	PHYS 220	4	Gen Physics 1
	PHYS 221	4	Gen Physics 2

Mathematics³/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

³ 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
English⁴/Communication (6-13credits)			
	ENGL 100 ⁵	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

⁴ Based on placement evaluation, students may be placed in ENGL 100, 104 or 108.

⁵ 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)			
	PSY 120	3	Elementary Psychology

Free Electives 19-26 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 ⁶	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)

⁶ 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-Dentistry Option

EMS Freshman Advisor
Biological Sciences Advisors

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Dental School Notes: You do not need to be a pre-dentistry major to apply to dental school. However, you must fulfill the prerequisite courses as identified on the opposite side. Purdue University Calumet communicates with Indiana University School of Dentistry 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 dental school that he/she applies to. After completing the courses and 90 credit hours of undergraduate work, you can apply to dental 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 dental schools and the application process go to: www.adae.org. IUSD's selection criteria include, but are not limited to, overall grade point average, science grade point average, DAT scores, interviews, recommendations, years and hours of college credit, degrees received, motivation, exploration of dentistry, manual and artistic skills, character, personality, ethics, and health.

To apply, you must take the Dental Admission Test (DAT). Successful performance on the DAT requires completion of at least one year of college education, which should include courses in biology, and general and organic chemistry. The DAT can be taken nearly any day of the year at Sylvan Technology Centers throughout the country. DAT software and sample test are also available by contacting <http://www.DentalAdmissionTest.com> (from http://www.iusd.iupui.edu/depts/edu/sa/admissions_information.htm).

Average GPA of 2006 class was overall 3.52 and 3.47 in the sciences for IU Dental School.

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)	
ENGL 100 or 104 (4 or 3)	ENGL 105 (3)	
COM 114 (3)	HUMANITIES/SOC SCI Elective (3)	
Total semester credits 15-16	Total semester credits 17	
BIOL 213 (4)	BIOL 214 (4)	
CHM 255/255L (4)	CHM 256/256L (4)	
MA 223 or Prep course (3)	MA 224 or Prep course (3)	
PSY 120 (3)	HUMANITIES/SOC SCI Elective (3)	
HUMANITIES/SOC SCI Elective (3)	Free Electives (3)	
Total semester credits 17	Total semester credits 17	
BIOL 243 or 244/244L (4)	BIOL 244/244L or 243 (4)	Completed prerequisite courses and minimum 90 hours. Applications to IUPUI Dental School must be sent by Jan. 1st of the year you plan on attending.
CHM 333 (3)	PHYS 221 (4)	
PHYS 220 (4)	HUMANITIES/SOC SCI Elective (3)	
HUMANITIES/SOC SCI Elective (3)	HUMANITIES/SOC SCI Elective (3)	
HPER (1)	Free Elective (1-4)	
Total semester credits 15	Total semester credits 15-18	
HUMANITIES/SOC SCI Elective (3)	BIOL 316 (4)	
HUMANITIES/SOC SCI Elective (3)	BIOL 330 (4)	
HUMANITIES/SOC SCI Elective (3)	BIOL 333 (4)	
BIOL and Free Electives (7-8)	BIOL 428 (1)	
Total semester credits 16-17	Free Electives (3-4)	
	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.

Suggested electives but not required by IUPUI: Art (i.e. 3-D Drawing or Jewelry-Making), Introduction to Business Management, Interpersonal Communications, Spanish, Cell Biology, Genetics, Histology, Microbiology and Molecular Biology.