

Note that this is a "Typical Program." Actual programs will vary. See the Academic Catalog for official details.

**BIOLOGY B.S. DEGREE**  
**Pre-Med Program**

**Advisor: Dr. Evans**

Fall 2015			Spring 2016		
<u>BI 141:</u>	<u>Freshman Biology Seminar</u> <sup>2,5</sup>	1	<u>BI 161:</u>	<u>Cell Biology</u> <sup>4</sup>	4
<u>CH 161:</u>	<u>Principles of Chemistry I</u> <sup>4</sup>	4	<u>CH 162:</u>	<u>Principles of Chemistry II</u> <sup>4</sup>	4
HS 115:	Hist Persp on Cult & Civ I	3	HS 116:	Hist Persp on Cult & Civ II	3
EN 121:	Academic Writing and Research	3	EN 151:	Perspectives on Literature	3
BR 111:	Biblical History and Literature	3	115:	Introduction to AR/DM/MU/TH	2
EX 101:	Wellness for Life	2			
<b>total 16</b>			<b>total 16</b>		
Fall 2016			Spring 2017		
<u>CH 263:</u>	<u>Organic Chemistry I</u> <sup>4</sup>	4	<u>CH 264:</u>	<u>Organic Chemistry II</u> <sup>4</sup>	4
<u>BI 241:</u>	<u>Human Anatomy &amp; Phys I</u> <sup>4,5</sup>	4	<u>PH 212:</u>	<u>Principles of Physics II</u> <sup>4</sup>	4
<u>MA 171:</u>	<u>Analytic Geometry &amp; Calc I</u> <sup>3,4</sup>	4	<u>BI 242:</u>	<u>Human Anatomy &amp; Phys II</u> <sup>4</sup>	4
<u>PH 211:</u>	<u>Principles of Physics I</u> <sup>4</sup>	4	<u>MA 172:</u>	<u>Analytic Geometry &amp; Calc II</u> <sup>4</sup>	4
<b>total 16</b>			<b>total 16</b>		
Fall 2017			Spring 2018		
* <u>BI 261:</u>	<u>Botany</u>	4	* <u>BI 342:</u>	<u>Human Physiology</u> <sup>4,5</sup>	4
* <u>BI 462:</u>	<u>Adv Cell &amp; Molecular Biology</u> <sup>5</sup>	4	* <u>BI 371:</u>	<u>Comparative Embryology</u> <sup>4,5</sup>	4
* <u>CH 411:</u>	<u>Biochemistry</u> <sup>4</sup>	3	* <u>BI 451:</u>	<u>Seminar in Biology</u>	1
PL____:	Introduction to Philosophy/Ethics	3	CO 215:	Public Speaking	3
SO 111:	Principles of Sociology <sup>4</sup>	3	PY 111:	Introduction to Psychology <sup>4</sup>	3
<b>total 17</b>			<b>total 15</b>		
Fall 2018			Spring 2019		
* <u>BI 321:</u>	<u>Genetics</u> <sup>4</sup>	4	* <u>BI 222:</u>	<u>Zoology</u> <sup>4</sup>	4
* <u>ES 211:</u>	<u>Environmental Resources</u>	4	* <u>BI 432:</u>	<u>General Microbiology</u> <sup>4,5</sup>	4
MI 285:	Core Curriculum Christian Faith	3	BR____:	Bible Elective [300+ level]	3
	Creative Studio Arts	1		Elective [300 + level] <sup>6</sup>	3
	Elective [300 + level] <sup>6</sup>	3			
<b>total 15</b>			<b>total 14</b>		

**NOTES:**

1. Biology majors must demonstrate satisfactory mathematics placement scores prior to enrolling in their intended chemistry, mathematics or physics courses (*see mathematics placement policy in Catalog under Academic Information*).
2. BI 141 Freshman Biology Seminar is not required but is strongly recommended.
3. Either MA 151 or MA 171 will fulfill the mathematics requirement.
4. The minimum courses recommended for preparation for medical, dental, optometry, or veterinary school and for the appropriate standardized admission test include BI 161/L, 222/L, 321/L, 342/L; CH 161/L, 162/L, 263/L, 264/L; PH 211/L, 212/L; and MA 151 or 171. Additional recommended courses include BI 241/L, BI 242/L, BI 371/L, BI 432/L; CH 411; and MA 171 and 172. (CH 411, PY 111 and SO 111 are now required for medical school admission at some schools, including Indiana University.)
5. Twenty-one additional hours required from biology and environmental science, including at least three courses from BI 342/L, 371/L, 422/L, 432/L and 462/L.
6. Majors must be careful in selection of electives so that a sufficient number of upper division courses are taken. A minimum of 36 hours of 300+ courses is required for graduation.

\*Indicates alternating year course.

Underlining indicates required for major.