

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

**CHEMISTRY B.S. DEGREE****Advisor: Dr. Nalliah****Biochemistry Track - Pre-Med Program**

<b>Fall 2013</b>			<b>Spring 2014</b>		
<u>CH 161:</u>	<u>Principles of Chemistry I</u> <sup>2</sup>	4	<u>BI 161:</u>	<u>Cell Biology</u> <sup>2</sup>	4
<u>MA 171:</u>	<u>Analytic Geometry &amp; Calculus I</u> <sup>1, 2</sup>	4	<u>CH 162:</u>	<u>Principles of Chemistry II</u> <sup>2</sup>	4
HS 115:	Hist Persp on Cult & Civ I	3	<u>MA 172:</u>	<u>Analytic Geometry &amp; Calculus II</u> <sup>1, 2</sup>	4
EN 121:	Academic Writing and Research	3	HS 116:	Hist Persp on Cult & Civ II	3
115:	Introduction to AR/MU/TH	2	PE 110:	Introduction to Physical Wellness	1
<b>total 16</b>			<b>total 16</b>		
<b>Fall 2014</b>			<b>Spring 2015</b>		
* <u>BI 321:</u>	<u>Genetics</u> <sup>2</sup>	4	<u>CH 264:</u>	<u>Organic Chemistry II</u> <sup>2</sup>	4
<u>CH 263:</u>	<u>Organic Chemistry I</u> <sup>2</sup>	4	<u>PH 212:</u>	<u>Principles of Physics II</u> <sup>2</sup>	4
<u>PH 211:</u>	<u>Principles of Physics I</u> <sup>2</sup>	4	* <u>BI 432:</u>	<u>General Microbiology</u> <sup>2</sup>	4
EN 151:	Perspectives on Literature	3	BR 111:	Biblical History and Literature	3
	Creative Studio Arts	1			
<b>total 16</b>			<b>total 15</b>		
<b>Fall 2015</b>			<b>Spring 2016</b>		
* <u>BI 462:</u>	<u>Adv Cell &amp; Molec Biology</u> <sup>2</sup>	4	* <u>CH 333:</u>	<u>Instrumental Analysis</u>	4
* <u>CH 331:</u>	<u>Quantitative Analysis</u>	4	* <u>BI 342:</u>	<u>Human Physiology</u> <sup>2</sup>	4
* <u>CH 411:</u>	<u>Biochemistry</u> <sup>2</sup>	3	* <u>BI 371:</u>	<u>Comparative Embryology</u> <sup>2</sup>	4
* <u>CH 451:</u>	<u>Seminar in Chemistry</u>	1		Core Curriculum Social Science	3
MI 285:	Core Curriculum Christian Faith	3			
PE 111:	Physical Education Activities	1			
<b>total 16</b>			<b>total 15</b>		
<b>Fall 2016</b>			<b>Spring 2017</b>		
* <u>CH 361:</u>	<u>Physical Chemistry I</u>	4	* <u>CH 371:</u>	<u>Physical Chemistry II</u>	4
* <u>CH 441:</u>	<u>Advanced Inorganic Chemistry</u>	3	* <u>BI 222:</u>	<u>Zoology</u> <sup>2</sup>	4
<u>CH 490:</u>	<u>Undergraduate Research</u> <sup>3</sup>	1-2	BR___:	Bible Elective [300 + level]	3
PL___:	Introduction to Philosophy/Ethics	3	CO 215:	Public Speaking	3
	Core Curriculum Social Science	3			
<b>total 14-15</b>			<b>total 14</b>		

**NOTES:**

1. Chemistry majors not yet placing into MA 171/172 should take MA 141 in the Spring of the freshman year (*see mathematics placement policy in Catalog under Academic Information*).
2. 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. Biology courses in italics are recommended but not required for the major. In addition to courses listed above, BI 241/L and 242/L are recommended as options (*see Degrees and Programs, Pre-Medical Study in Catalog*).
3. Chemistry majors must complete chemical research for graduation. CH 490 should be taken during the summer before the student's senior year. It is imperative that the student apply to summer programs in the winter of the junior year, at the latest. Application in the sophomore year is encouraged.

\*Indicates alternating year course.

Underlining indicates required for major.