

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 2016</b>			<b>Spring 2017</b>		
<u>CH 161:</u>	<u>Principles of Chemistry I<sup>2</sup></u>	4	<u>BI 161:</u>	<u>Cell Biology<sup>2</sup></u>	4
<u>MA 171:</u>	<u>Analytic Geometry &amp; Calculus I<sup>1,2</sup></u>	4	<u>CH 162:</u>	<u>Principles of Chemistry II<sup>2</sup></u>	4
HS 115:	Hist Persp on Cult & Civ I	3	<u>MA 172:</u>	<u>Analytic Geometry &amp; Calculus II<sup>1,2</sup></u>	4
EN 121:	Academic Writing and Research	3	HS 116:	Hist Persp on Cult & Civ II	3
115:	Introduction to AR/DM/MU/TH	2			
	<b>total</b>	<b>16</b>		<b>total</b>	<b>15</b>
<b>Fall 2017</b>			<b>Spring 2018</b>		
<u>CH 263:</u>	<u>Organic Chemistry I<sup>2</sup></u>	4	<u>CH 264:</u>	<u>Organic Chemistry II<sup>2</sup></u>	4
<u>PH 211:</u>	<u>Principles of Physics I<sup>2</sup></u>	4	<u>PH 212:</u>	<u>Principles of Physics II<sup>2</sup></u>	4
EN 151:	Perspectives on Literature	3	* <u>BI 342:</u>	<u>Human Physiology<sup>2</sup></u>	4
EX 101:	Wellness for Life	2	BR 111:	Biblical History and Literature	3
PY 111:	Introduction to Psychology <sup>2</sup>	3			
	<b>total</b>	<b>16</b>		<b>total</b>	<b>15</b>
<b>Fall 2018</b>			<b>Spring 2019</b>		
* <u>BI 321:</u>	<u>Genetics<sup>2</sup></u>	4	* <u>CH 333:</u>	<u>Instrumental Analysis</u>	4
* <u>CH 361:</u>	<u>Physical Chemistry I</u>	4	* <u>BI 222:</u>	<u>Zoology<sup>2</sup></u>	4
* <u>CH 441:</u>	<u>Advanced Inorganic Chemistry</u>	3	* <u>BI 432:</u>	<u>General Microbiology<sup>2</sup></u>	4
MI 285:	Core Curriculum Christian Faith	3	SO 111:	Principles of Sociology <sup>2</sup>	3
	<b>total</b>	<b>14</b>		<b>total</b>	<b>15</b>
<b>Fall 2019</b>			<b>Spring 2020</b>		
* <u>BI 462:</u>	<u>Adv Cell &amp; Molec Biology<sup>2</sup></u>	4	* <u>CH 371:</u>	<u>Physical Chemistry II</u>	4
* <u>CH 331:</u>	<u>Quantitative Analysis</u>	4	* <u>BI 371:</u>	<u>Comparative Embryology<sup>2</sup></u>	4
* <u>CH 411:</u>	<u>Biochemistry<sup>2</sup></u>	3	BR___:	Bible Elective [300 + level]	3
* <u>CH 451:</u>	<u>Seminar in Chemistry</u>	1	CO 215:	Public Speaking	3
<u>CH 491:</u>	<u>Undergraduate Research<sup>3</sup></u>	1-2		Creative Studio Arts	1
PL___:	Introduction to Philosophy/Ethics	3			
	<b>total</b>	<b>16-17</b>		<b>total</b>	<b>15</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. In addition to courses required for the chemistry major, 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. Biology courses in italics are recommended but not required for the major. Other recommended courses may include BI 241/L and 242/L (not included in the above plan); 371/L, 432/L, 462/L; PY 111; and SO 111 (*see Degrees and Programs, Pre-Medical Study in Catalog*). The PY 111 and SO 111 courses also fulfill the core social science requirement.
3. Chemistry majors must complete chemical research for graduation. CH 491 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.