

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

**CHEMISTRY B.A. DEGREE****Advisor: Drs. Nalliah and Troyer**

<b>Fall 2015</b>		<b>Spring 2016</b>			
<u>CH 161</u> :	<u>Principles of Chemistry I</u>	4	<u>CH 162</u> :	<u>Principles of Chemistry II</u>	4
<u>MA 171</u> :	<u>Analytic Geometry &amp; Calculus I</u> <sup>1</sup>	4	<u>MA 172</u> :	<u>Analytic Geometry &amp; Calculus II</u> <sup>1</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	BI 161:	Cell Biology <sup>2</sup>	4
EX 101:	Wellness for Life	2			
	<b>total</b>	<b>16</b>		<b>total</b>	<b>15</b>
<b>Fall 2016</b>		<b>Spring 2017</b>			
<u>CH 263</u> :	<u>Organic Chemistry I</u>	4	<u>CH 264</u> :	<u>Organic Chemistry II</u>	4
<u>PH 211</u> :	<u>Principles of Physics I</u>	4	<u>PH 212</u> :	<u>Principles of Physics II</u>	4
EN 151:	Perspectives on Literature	3	BR 111:	Biblical History and Literature	3
115:	Introduction to AR/DM/MU/TH	2		Foreign Language	3
	Foreign Language	3			
	<b>total</b>	<b>16</b>		<b>total</b>	<b>14</b>
<b>Fall 2017</b>		<b>Spring 2018</b>			
* <u>CH 331</u> :	<u>Quantitative Analysis</u>	4	* <u>CH 333</u> :	<u>Instrumental Analysis</u>	4
* <u>CH 411</u> :	<u>Biochemistry</u> <sup>2,3,4</sup>	3	MI 285:	Core Curriculum Christian Faith	3
CO 215:	Public Speaking	3		Creative Studio Arts	1
	Core Curriculum Social Science	3		Foreign Lang/Cult Enrichment	3
	Foreign Lang/Cult Enrichment	3		Electives [300+ level] <sup>4</sup>	4
	<b>total</b>	<b>16</b>		<b>total</b>	<b>15</b>
<b>Fall 2018</b>		<b>Spring 2019</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> <sup>3,4</sup>	3		Core Curriculum Social Science	3
BR____:	Bible Elective [300+ level]	3		Elective [300+ level] <sup>4</sup>	7
PL____:	Introduction to Philosophy/Ethics	3			
	Elective	3			
	<b>total</b>	<b>16</b>		<b>total</b>	<b>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. BI 161 Cell Biology is recommended as an elective. Students may choose to take BI 161 in the Spring of the Freshman, Sophomore, or Junior year depending on the need for early fulfillment of prerequisites for other Biology courses. BI 161 is recommended before CH 411 Biochemistry.
3. Recommended as an elective.
4. 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.