

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

**CHEMISTRY B.S. DEGREE****Advisor: Drs. Bordeaux and Nalliah**

<b>Fall 2011</b>		<b>Spring 2012</b>			
CH 161:	<u>Principles of Chemistry I</u>	4	CH 162:	<u>Principles of Chemistry II</u>	4
MA 171:	<u>Analytic Geometry &amp; Calculus I<sup>1</sup></u>	4	MA 172:	<u>Analytic Geometry &amp; Calculus II<sup>1</sup></u>	4
HS 115:	Hist Persp on Cult & Civ I	3	BI 161:	Cell Biology <sup>2</sup>	4
EN 121:	Academic Writing and Research	3	HS 116:	Hist Persp on Cult & Civ II	3
PE 110:	Introduction to Physical Wellness	1			
	<b>total</b>	<b>15</b>		<b>total</b>	<b>15</b>
<b>Fall 2012</b>		<b>Spring 2013</b>			
CH 263:	<u>Organic Chemistry I</u>	4	CH 264:	<u>Organic Chemistry II</u>	4
MA 273:	<u>Analytic Geometry &amp; Calculus III</u>	4	PH 212:	<u>Principles of Physics II</u>	4
PH 211:	<u>Principles of Physics I</u>	4	* PH 261:	<u>Analog and Digital Electronics</u>	2
EN 151:	Perspectives on Literature	3	BR 111:	Biblical History and Literature	3
				Core Curriculum Social Science	3
	<b>total</b>	<b>15</b>		<b>total</b>	<b>16</b>
<b>Fall 2013</b>		<b>Spring 2014</b>			
* CH 331:	<u>Quantitative Analysis</u>	4	* CH 333:	<u>Instrumental Analysis</u>	4
* CH 411:	<u>Biochemistry<sup>2</sup></u>	3	* MA 371:	<u>Differential Equations</u>	4
* CH 451:	<u>Senior Seminar in Chemistry</u>	1	PL ____:	Introduction to Philosophy/Ethics	3
CO 215:	Public Speaking	3	PE 111:	Physical Education Activities	1
MI 285:	Core Curriculum Christian Faith	3		Elective [300+ level] <sup>4</sup>	3
115:	Introduction to AR/MU/TH	2			
	<b>total</b>	<b>16</b>		<b>total</b>	<b>15</b>
<b>Fall 2014</b>		<b>Spring 2015</b>			
* CH 361:	<u>Physical Chemistry I</u>	4	* CH 371:	<u>Physical Chemistry II</u>	4
* CH 441:	<u>Advanced Inorganic Chemistry</u>	3	BR ____:	Bible Elective [300+ level]	3
CH 490:	<u>Independent Study<sup>3</sup></u>	1-2		Core Curriculum Social Science	3
	Creative Studio Arts	1		Electives	6
	Elective [300+ level] <sup>4</sup>	3			
	Elective	3			
	<b>total</b>	<b>15-16</b>		<b>total</b>	<b>16</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. Chemistry majors must complete an independent study in chemical research for graduation. 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.
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.