

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

CHEMISTRY B.S. DEGREE
Biochemistry Track

Advisor: Drs. Nalliah and Troyer

Fall 2016		Spring 2017			
CH 161:	<u>Principles of Chemistry I</u>	4	BI 161:	<u>Cell Biology</u>	4
MA 171:	<u>Analytic Geometry & Calculus I¹</u>	4	CH 162:	<u>Principles of Chemistry II</u>	4
HS 115:	Hist Persp on Cult & Civ I	3	MA 172:	<u>Analytic Geometry & Calculus II¹</u>	4
EN 121:	Academic Writing and Research	3	HS 116:	Hist Persp on Cult & Civ II	3
EX 101:	Wellness for Life	2			
	total	16		total	15
Fall 2017		Spring 2018			
CH 263:	<u>Organic Chemistry I</u>	4	CH 264:	<u>Organic Chemistry II</u>	4
PH 211:	<u>Principles of Physics I</u>	4	PH 212:	<u>Principles of Physics II</u>	4
EN 151:	Perspectives on Literature	3	BR 111:	Biblical History and Literature	3
CO 215:	Public Speaking	3	115:	Introduction to AR/DM/MU/TH	2
	Creative Studio Arts	1		Core Curriculum Social Science	3
	total	15		total	16
Fall 2018		Spring 2019			
* BI 321:	<u>Genetics</u>	4	* CH 371:	<u>Physical Chemistry II</u>	4
* CH 361:	<u>Physical Chemistry I</u>	4	MI 285:	Core Curriculum Christian Faith	3
* CH 441:	<u>Advanced Inorganic Chemistry</u>	3	PL____:	Introduction to Philosophy/Ethics	3
	Elective	3		Electives	5
	total	14		total	15
Fall 2019		Spring 2020			
* BI 462:	<u>Adv Cell & Molecular Biology</u>	4	* CH 333:	<u>Instrumental Analysis</u>	4
* CH 331:	<u>Quantitative Analysis</u>	4	BR____:	Bible Elective [300+ level]	3
* CH 411:	<u>Biochemistry</u>	3		Core Curriculum Social Science	3
* CH 451:	<u>Seminar in Chemistry</u>	1		Electives	5
CH 491:	<u>Undergraduate Research²</u>	1-2			
	Elective [300+ level] ³	3			
	total	16-17		total	15

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. 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.
3. 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.