



## Biochemistry - Research Industry Major – Bachelor of Science

FIRST YEAR-SEMESTER #1	FIRST YEAR- SEMESTER #2	UNIVERSITY CORE
BIO 111 Principles of Biology I 4	CHE 112 General Chemistry II 3	<b>COMMON GOOD</b>
BIO 111A Prin. of Biology I Lab 0	CHE 112A Gen. Chem II Lab 1	CORE 115 Common Ground Code COR
BIO 111R Prin. of Bio I Recitation 0	CHE 112R Gen. Chem. II Rec 0	Justice & the Common Good Code JCG
CHE 111 General Chemistry I 3	MTH 194 Calculus II 4	Ethics Code CE
CHE 111A Gen. Chem. I Lab 1	COM 100/ ENG 101 3	Experiential Learning Code EXP
CHE 111R Gen. Chem. I Rec 0	SOC 103 Our Social World 3	Core Capstone Code CCP
MTH 193 Calculus I 4	Core requirement 3	<b>HUMANITIES</b>
CORE 115 Common Ground 3		Speech (COM 100) Code C
SECOND YEAR-SEMESTER #1	SECOND YEAR-SEMESTER #2	Writing (ENG 101) Code C
CHE 211 Organic Chemistry I 3	CHE 212 Organic Chemistry II 3	Literature (ENG) Code CL
CHE 211A Organic Chem I Lab 1	CHE 212A Organic Chem II Lab 1	Art or Music Code CAM
PHY 201 General Physics I 3	CHE 200 Chem. Soph. Seminar 1	History Code CH
PHY 201A Gen. Physics I Lab 1	PHY 202 General Physics II 3	Religious Studies Code CR
CED 220 Foundations of Professionalism 1	PHY 202A Gen. Physics II Lab 1	Philosophy Code CP
COM 100/ENG 101 3	Core requirement 3	<b>SCIENCES</b>
Core requirement 3	Core requirement 3	Biology/Chemistry/Physics + Lab Code CN
		Mathematics Code CMA
		SOC 103 Our Social World Code CS
THIRD YEAR-SEMESTER #1	THIRD YEAR-SEMESTER #2	Choose one discipline:
CHE 350 Physical Chemistry I 3	CHE 326 Biochemistry II 3	ECO 212 Microeconomics Code CEP
CHE 350A Phys. Chem I Lab 1	CHE 326A Biochemistry II Lab 1	PSY 103 Psychology Code CEP
CHE 325 Biochemistry I 3	CHE 355# or elective 3	
CHE 325A Biochemistry I Lab 1	CHE 355A# 1	
Core requirement 3	CHE 300 Chem. Junior Seminar 1	
Core requirement 3	BIO 305/305A or 310/310A 4	
Core requirement 3	or 320/320A 4	
	Core requirement 3	
FOURTH YEAR-SEMESTER #1	FOURTH YEAR-SEMESTER #2	
CHE 314 Inter. Analytical Chem 3	CHE 315# or 360 or elective 3	
CHE 314A Inter. Analytical Chem Lab 1	CHE 315A# or 360A or elective 1	
Core requirement 3	CHE 390 Research Problems in Chemistry 1	
Core Capstone 3	CHE 400 Chem. Seminar & Capstone 1	
Elective 3	BIO 305/305A or 310/310A or 320/320A 4	
<p>#Students take CHE 315/315A Instrumental Analysis with lab or CHE 355/355A Physical Chem. II with lab or CHE 360/360A Int. Inorganic Chem. with lab</p> <p>Students choose two from BIO 305 Microbiology; BIO 320 Genetics; BIO 310/310A Cell Biology with lab</p>		<b>NOTES</b>
		Prerequisites: Chemistry- College preparatory high school chemistry or the successful completion of a placement test. Math- Three years of college preparatory high school mathematics including functions.
		120 credit hours minimum needed to graduate
		*Students must have an appropriate math placement before enrolling in MTH 193 and CHE 111.
		**Curriculum Guide does not replace advising by a faculty member within the Chemistry program**