John Carroll U	Iniver	sitv	Ch	emistrv	8	Biochemistry Departn	nent		
Chemistry Major (3+2 Chem Eng Program at CWRU) Study Plan (JCU Portion)									
First Year									
Fall Semester	Credits	Major	Core	Minor/Other		Spring Semester	Credits	Major	Core Minor/Other
CH1410 General Chemistry I*	4	Х				CH1420 General Chemistry II*	4	Х	
CH1430 General Chemistry Lab I*	1	Х				CH1440 General Chemistry Lab II*	1	Х	
MT1350 Calculus / Analytic Geometry I	4	Х				MT1360 Calculus / Analytic Geometry II	4	Х	
EN1250 Seminar on Academic Writing*	3		Х			COM1251 Speech Communications	3		Х
PH1250 General Physics I	4	Х				PH1260 General Physics II	4	Х	
PH1511 Physics Workshop I	1	Х				PH1521 Physics Workshop II	1	Х	
Total Credit Hours	17					Total Credit Hours	17		
Second Year									
Fall Semester	Credits	Major	Core	Minor/Other		Spring Semester	Credits	Major	Core Minor/Other
CH2210 Organic Chemistry I	3	Χ				CH2220 Organic Chemistry II	3	Χ	
CH2230 Organic Chemistry Lab I	1	Χ				CH2240 Organic Chemistry Lab II	1	Χ	
MT2330 Calculus/Analytical Geometry III	4	Χ							
CS1280 Problem Solving w/Programming	3	Χ							
CS1281 Problem Solving/Progam lab	1	Χ							
TRS Course	3								
Engaging the Global Community (EGC)	3								
Total Credit Hours	18								

Credits Major

Χ

Χ Χ

3

3

2

3

Please consult your academic advisor to address specific need

Fall Semester

Humanities Course

CH3630 Physical Chemistry I

CH4410 Instrumental Analysis

CH3670 Physical Chemistry I Lab

CH4430 Instrumental Analysis Lab*