

University of the Incarnate Word
Unofficial Degree Plan

School of Mathematics, Science and Engineering

Degree: **Bachelor of Science**Major: **Chemistry**

Bachelor's degree institutional requirements: A minimum of 120 hours required for graduation to include: 45 hours of residency, 36 advanced hours (junior/community college courses will not satisfy), 36 of the last 45 hours must be from UIW, 45 clock hours community service.

University Core Curriculum	Credit Hours	Earned	Grade
Rhetoric (6)			
ENGL 1311 Composition I	3		
ENGL 1312 Composition II	3		
Wellness Development (3)			
DWHP 1200 (3200 Transfer)	2		
PE Activity Course	1		
Philosophy and Religion (9)			
3 hrs from RELS 1305, 1315, 1325, 1335	3		
PHIL 1381 Introduction to Philosophy	3		
3 hrs Advanced Religion/Philosophy	3		
Literature and the Arts (6)			
ENGL 2310 World Literature Studies	3		
3 hrs Fine Arts	3		
Mathematics and the Natural Sciences (7)			
MATH 1304 or 1306 or higher	3		
Natural Science, BIOL 1402	4		
History and the Social Sciences (6)			
HIST 1311, 1312, 1321, 1322	3		
3 hrs Social Science	3		
Modern Language (6)			
6 hrs in one language other than English	3		
	3		
Community Service (45 Non-Credit Clock Hours)			
Community Service Requirement			

Program Curriculum	Credit Hours	Earned	Grade
Chemistry Curriculum (53 hrs)			
CHEM 1301 Chemical Principles I	3		
CHEM 1101 Chemical Principles I Lab	1		
CHEM 1302 Chemical Principles II	3		
CHEM 1102 Chemical Principles II Lab	1		
CHEM 2311 Organic Chemistry I	3		
CHEM 2111 Organic Chemistry I Lab	1		
CHEM 2312 Organic Chemistry II	3		
CHEM 2112 Organic Chemistry II Lab	1		
CHEM 3321 Quantitative Analysis	3		
CHEM 3221 Quantitative Analysis Lab	2		
CHEM 3341 Inorganic Chemistry	3		
CHEM 3342 Coordination and Solid State Chemistry	3		
CHEM 3142 Experimental Methods in Inorganic Chemistry	1		
CHEM 3160 Intro to Chemistry Research and Careers	1		
CHEM 4322 Instrumental Analysis	3		
CHEM 4222 Instrumental Analysis Lab	2		
CHEM 4331 Physical Chemistry: Thermodynamics	3		
CHEM 4231 Physical Chemistry: Thermodynamics Lab	2		
CHEM 4432/ CHEM 4432L Physical Chemistry: Quantum Mechanics and Lab	4		
CHEM 4351 Biochemistry I	3		
CHEM 4251 Biochemistry I Lab	2		
CHEM 4260 Chemistry Research	2		
	3		
Upper-level Chemistry Elective	3		

Support Work Required (18 hrs)			
BIOL 1402	*General Biology I for Majors and Lab	4	
MATH 2312	*Calculus I	3	
MATH 2313	Calculus II	3	
PHYS 2305	Physics I	3	
PHYS 2105	Physics I Lab	1	
PHYS 2306	Physics II	3	
PHYS 2106	Physics II Lab	1	

Electives (10-13 hrs)			

*Can be used to satisfy the Core.

Grade of C or better required in ENGL 1311, 1312 and all courses for the major/minor/concentration/specialization.

University Core	43
Program Core	64-71
Electives	6-13
Total	120 Credits