

**University of the Incarnate Word**  
Unofficial Degree Plan

**School of Mathematics, Science and Engineering**

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

Program Curriculum	Credit Hours	Earned	Grade
<b>Chemistry Curriculum (33-37 hrs)</b>			
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 3160 Intro to Chemistry Research and Careers	1		
<b>Any four of the following sets:</b>			
CHEM 3321/ CHEM 3221	Quantitative Analysis and Quantitative Analysis Lab	5	
CHEM 3341	Inorganic Chemistry	3	
CHEM 3342/ CHEM 3142	Coordination and Solid State Chemistry and Exp. Methods in Inorganic Chemistry	4	
CHEM 4322/ CHEM 4222	Instrumental Analysis and Instrumental Analysis Lab	5	
CHEM 4331/ CHEM 4231	**Physical Chemistry: Thermodynamics and Physical Chemistry: Thermodynamics Lab	5	
CHEM 4432/ CHEM 4432L	**Physical Chemistry: Quantum Mechanics and Lab	4	
CHEM 4351/ CHEM 4251	Biochemistry I and Biochemistry I Lab	5	
CHEM 4352/ CHEM 4252	Biochemistry II and Biochemistry II Lab	5	
<b>Support Work Required (11-18 hrs)</b>			
BIOL 1402	*General Biology I for Majors and Lab	4	
MATH 2312	*Calculus I	3	
MATH	**MATH 2313 Calculus II or MATH 2303 Statistics	3	
PHYS	Eight hours of Physics:		
	**PHYS 2305/PHYS 2105 Physics I and Lab, PHYS 2306/PHYS 2106 Physics II and Lab OR PHYS 1305/PHYS 1105 General Physics I and Lab, PHYS 2306/PHYS 2106 General Physics II and Lab	8	

\*Can be used to satisfy the Core.

\*\* Calculus II and Physics I and II with labs are needed to take Physical Chemistry.

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

University Core	43
Program Core	44-55
Electives	22-33
Total	120 Credits