

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

**School of Mathematics, Science and Engineering**

Degree: **Bachelor of Science**Major: **Biochemistry**

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>			
Community Service Requirement			

Program Curriculum	Credit Hours	Earned	Grade
<b>Biochemistry Curriculum (42 hours)</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 3321 Quantitative Analysis	3		
CHEM 3221 Quantitative Analysis Lab	2		
CHEM 3160 Intro to Chemistry Research and Careers	1		
CHEM 4351 Biochemistry I	3		
CHEM 4251 Biochemistry I Lab	2		
CHEM 4352 Biochemistry II	3		
CHEM 4252 Biochemistry II Lab	2		
CHEM 4331 Physical Chemistry: Thermodynamics	3		
CHEM 4231 Physical Chemistry: Thermodynamics Lab	2		
CHEM 4260 Chemistry Research	2		
<b>Choose one of the following</b>			
CHEM 4353 Molecular Biochemistry	3		
CHEM 4354 Enzymology	3		

<b>Support Work Required (24-32 hours)</b>			
BIOL 1402	*General Biology I for Majors and Lab	4	
BIOL 3311	Cell Biology	3	
BIOL 3361	Genetics	3	
MATH 2312	*Calculus I	3	
MATH 2313	Calculus II	3	
PHYS 2305	Physics I	3	
PHYS 2305	Physics I Lab	1	
PHYS 2305	Physics II	3	
PHYS 2305	Physics II Lab	1	
<b>Choose one of the following</b>			
CHEM 3xxx/ CHEM 4xxx	Upper Division CHEM Course (not already taken)	3	
BIOL 3202	Research Methods in Cell and Molecular Genetics	2	
BIOL 3471	General Microbiology and Lab	4	

<b>Electives (3-11 hours)</b>			

\*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 66-74  
Electives 3-11  
Total 120 credits