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	Program Curriculum		Credit Hours	Earned	Grade
Rhetoric (6)					Biochemistry Curriculum (42 hours)			
ENGL 1311 Composition I	3			CHEM 1301	Chemical Principles I	3		
ENGL 1312 Composition II	3			CHEM 1101	Chemical Principles I Lab	1		
Wellness Development (3)				CHEM 1302	Chemical Principles II	3		
DWHP 1200 (3200 Transfer)	2			CHEM 1102	Chemical Principles II Lab	1		
PE Activity Course	1			CHEM 2311	Organic Chemistry I	3		
Philosophy and Religion (9)				CHEM 2111	Organic Chemistry I Lab	1		
3 hrs from RELS 1305, 1315, 1325, 1335	3			CHEM 2312	Organic Chemistry II	3		
PHIL 1381 Introduction to Philosophy	3			CHEM 2112	Organic Chemistry II Lab	1		
3 hrs Advanced Religion/Philosophy	3			CHEM 3321	Quantitative Analysis	3		
Literature and the Arts (6)				CHEM 3221	Quantitative Analysis Lab	2		
ENGL 2310 World Literature Studies	3			CHEM 3160	Intro to Chemistry Research and Careers	1		
3 hrs Fine Arts	3			CHEM 4351	Biochemistry I	3		
Mathematics and the Natural Sciences (7)				CHEM 4251	Biochemistry I Lab	2		
MATH 1304 or 1306 or higher	3			CHEM 4352	Biochemistry II	3		
Natural Science, BIOL 1402	4			CHEM 4252	Biochemistry II Lab	2		
History and the Social Sciences (6)				CHEM 4331	Physical Chemistry: Thermodynamics	3		
HIST 1311, 1312, 1321, 1322	3			CHEM 4231	Physical Chemistry: Thermodynamics Lab	2		
3 hrs Social Science	3			CHEM 4260	Chemistry Research	2		
Modern Language (6) 6 hrs in one language other than English					Choose one of the following			
	3			CHEM 4353	Molecular Biochemistry	3		
	3			CHEM 4354	Enzymology	3		
Community Service (45 Non-Cre	dit Clock	Hours)						
Community Service Requirement					Support Work Required (24-32 hour	s)		

*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.

43
66-74
3-11
120 credits

	Support Work Required (24-32 hour	s)	
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	
	Choose one of the following		
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	

Electives (3–11 hours)		