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			
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-Cred	dit Clock	Hours)				
Community Service Requirement						

Electives		

Program C	urriculum	Credit Hours	Earned	Grade
	Chemistry Curriculum (33-37 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 3160	Intro to Chemistry Research and Careers	1		
	Any four of the following sets:			
CHEM 3321/	Quantitative Analysis and Quantitative	5		
CHEM 3221	Analysis Lab			
CHEM 3341	Inorganic Chemistry	3		
CHEM 3342/	Coordination and Solid State Chemistry and	4		
CHEM 3142	Exp. Methods in Inorganic Chemistry			
CHEM 4322/	Instrumental Analysis and Instrumental	5		
CHEM 4222	Analysis Lab	3		
CHEM 4331/	**Physical Chemistry: Thermodynamics and	5		
CHEM 4231	Physical Chemistry: Thermodynamics Lab			
CHEM 4432/	**Physical Chemistry: Quantum Mechanics			
CHEM 4432L	and Lab	4		
CHEM 4351/	Biochemistry I and Biochemistry I Lab	5		
CHEM 4251	Biochemistry I and Biochemistry I Bao	3		
CHEM 4352/ CHEM 4252	Biochemistry II and Biochemistry II Lab	5		
CHEW 4232	Support Work Required (11-18 hrs)			
BIOL 1402	*General Biology I for Majors and Lab	4		
MATH 2312	*Calculus I	3		
	**MATH 2313 Calculus II or MATH 2303			
MATH	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	8		
	Lab, PHYS 2306/PHYS 2106 General Physics			
	II and Lab			

^{*}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 44-55
Electives 22-33
Total 120 Credits

^{**} Calculus II and Physics I and II with labs are needed to take Physical Chemistry.