



**Bachelor of Science: Chemistry**  
**School of Mathematics, Science and Engineering**

Freshman Year: Fall		Hrs.
CHEM 1301: Chemical Principles I		3
CHEM 1101: Chemical Principles I Lab		1
BIOL 1402: Unity of Life and Lab		4
DWHP 1200: Dimension of Wellness		2
ENGL 1311: Composition I		3
HIST 13XX		3
Total hours		16
Sophomore Year: Fall		
CHEM 2311: Organic Chemistry I		3
CHEM 2111: Organic Chemistry I Lab		1
MATH 2312: Calculus I		3
ENGL 2310: World Literature Studies		3
PHIL 1381: Introduction to Philosophy		3
Modern Language I		3
Total hours		16
Junior Year: Fall		
CHEM 3321: Quantitative Analysis		3
CHEM 3221: Quantitative Analysis Lab		2
CHEM 3341: Inorganic Chemistry		3
CHEM 3160: Introduction to Chemistry Research & Careers		1
PHYS 2305: Physics I		3
PHYS 2105: Physics I Lab		1
RELS/PHIL 33XX		3
Total hours		16
Senior Year: Fall		
CHEM 4431: Physical Chemistry: Thermodynamics		4
CHEM 4231 Physical Chemistry: Thermodynamics Lab		2
CHEM 4351: Biochemistry I		3
CHEM 4251: Biochemistry I Lab		2
Elective (upper division)		3
		14

Freshman Year: Spring		Hrs.
CHEM 1302: Chemical Principles II		3
CHEM 1102: Chemical Principles II Lab		1
ENGL 1312: Composition II		3
MATH 1311: Pre-Calculus		3
PEHP 11XX		1
Elective		3
Total hours		14
Sophomore Year: Spring		
CHEM 2312: Organic Chemistry II		3
CHEM 2112: Organic Chemistry II Lab		1
MATH 2313: Calculus II		3
RELS 13XX		3
Modern Language II		3
Fine Arts		3
Total hours		16
Junior Year: Spring		
CHEM 3342 Coordination and Solid State Chemistry		3
CHEM 3142 Experimental Methods of Inorganic Chemistry		1
Elective		3
Social Science		3
CHEM 4260: Advanced Chemistry Research		2
PHYS 2306: Physics II		3
PHYS 2106: Physics II Lab		1
Total hours		16
Senior Year: Spring		
Chemistry Elective (upper division) (3 or 4 hours)		3
CHEM 4322 Instrumental Analysis		3
CHEM 4222 Instrumental Analysis Lab		2
CHEM 4332 Physical Chemistry: Quantum Mechanics		3
CHEM 4132 Physical Chemistry: Quantum Mechanics Lab		1
Total Hours		12

UIW Core - Total Hour 43

Major - Total Hours 58