

**2008-10 Catalog Paradigm
Chemistry**

First Year	
1.	CHEM 105 (GS4) (1 st semester) Prereq – one year of HS Chemistry
2.	CHEM 107 (2 nd semester) Prereq – CHEM 105 or Instructor's consent
3.	MATH 124 or MATH 131 (GS8) Prereq – 4 yrs college prep math in HS or MATH 115
4.	Science Elective
5.	General Education
6.	General Education
7.	General Education
8.	General Education

Second Year	
1.	CHEM 220 (1 st semester) Prereq – CHEM 107
2.	CHEM 211 (1 st semester) Prereq – CHEM 107
3.	CHEM 222 or 232 (2 nd semester) Prereq – CHEM 220
4.	CHEM 312 (2 nd semester) Prereq – CHEM 211 and 220
5.	General Education
6.	General Education
7.	Elective/Minor
8.	Elective/Minor

Third Year	
1.	PHYS 121 or PHYS 111 (1 st semester) Prereq – for PHYS 121 – MATH 131 or equivalent
2.	PHYS 122 or PHYS 112 (2 nd semester) Prereq – for PHYS 122 – PHYS 121; for PHYS 112 – PHYS 111
3.	CHEM 305 (2 nd semester) Prereq – CHEM 211 and 312
4.	Chemistry Elective
5.	General Education
6.	General Education
7.	Elective/Minor
8.	Elective/Minor

Fourth Year	
1.	CHEM 330 (1 st semester) Prereq – CHEM 211 and 222, MATH 124 or 131
2.	CHEM 332 (2 nd semester) Prereq – CHEM 330
3.	Chemistry Elective
4.	General Education
5.	General Education
6.	Elective/Minor
7.	Elective/Minor
8.	Elective/Minor

Elective/Minor courses can be used to take additional major courses, free electives, or to fulfill a minor.

Progress Sheet Chemistry

Student Name: Student ID:	
General Education – Lower Biennium	Major
<input type="checkbox"/> GS1 – Religious Studies <input type="checkbox"/> _____ <input type="checkbox"/> GS2 – Philosophy of Human Nature <input type="checkbox"/> _____ <input type="checkbox"/> GS3 – Human Relationships <input type="checkbox"/> _____ <input type="checkbox"/> GS4 – Natural Science <input type="checkbox"/> _____ <input type="checkbox"/> GS5 – Creative Expression <input type="checkbox"/> _____ <input type="checkbox"/> GS6 – United States Heritage <input type="checkbox"/> _____ <input type="checkbox"/> GS7 – Foreign Heritages <input type="checkbox"/> _____ <input type="checkbox"/> GS8 – Quantitative Skills <input type="checkbox"/> _____ <input type="checkbox"/> GS9 – Writing <input type="checkbox"/> _____ <input type="checkbox"/> _____	Required Courses: <input type="checkbox"/> CHEM 105 – General Chemistry 1 <input type="checkbox"/> CHEM 107 – General Chemistry 2 <input type="checkbox"/> MATH 131 – Calculus and Analytic Geometry I or MATH 124 – Survey of Calculus <input type="checkbox"/> CHEM 220 – Organic Chemistry <input type="checkbox"/> CHEM 222 – Organic Chemistry: Intermediate or CHEM 232 – Organic Chemistry: Research Emphasis <input type="checkbox"/> CHEM 211 – Quantitative Analysis <input type="checkbox"/> CHEM 312 – Instrumental Analysis <input type="checkbox"/> PHYS 121 – General Physics I or PHYS 111 – Fundamentals of Physics I <input type="checkbox"/> PHYS 122 – General Physics II or PHYS 112 – Fundamentals of Physics II <input type="checkbox"/> CHEM 305 – Inorganic Chemistry <input type="checkbox"/> CHEM 330 – Physical Chemistry 1 <input type="checkbox"/> CHEM 332 – Physical Chemistry 2 <input type="checkbox"/> CHEM Elective (300 +) <input type="checkbox"/> CHEM Elective (300 +)
General Education – Upper Biennium	
<input type="checkbox"/> GS1 – Religious Studies <input type="checkbox"/> _____ <input type="checkbox"/> GS10 – Western Tradition <input type="checkbox"/> _____ <input type="checkbox"/> GS11 – Global Society <input type="checkbox"/> _____ <input type="checkbox"/> GS12 – Senior Colloquium (GENS 400) <input type="checkbox"/> _____ <input type="checkbox"/> _____	Note – A computer course such as BUAD 142 or CSCI 110 is recommended before the senior year. Students intending to go on to graduate studies should realize that mathematics courses such as MATH 132, 233, and 310 are required by many graduate programs in Chemistry.

2008-10 Catalog Paradigm
Chemistry
Biochemistry

First Year	
1.	CHEM 105 (GS4) (1 st semester) Prereq – one year of HS Chemistry
2.	CHEM 107 (2 nd semester) Prereq – CHEM 105 or Instructor’s consent
3.	BIOL 120 (1 st semester)
4.	BIOL 121 (2 nd semester)
5.	MATH 124 or MATH 131 (GS8) Prereq – 4 yrs college prep math in HS or MATH 115
6.	General Education
7.	General Education
8.	General Education

Second Year	
1.	CHEM 220 (1 st semester) Prereq – CHEM 107
2.	CHEM 211 (1 st semester) Prereq – CHEM 107
3.	CHEM 222 or 232 (2 nd semester) Prereq – CHEM 220
4.	CHEM 312 (2 nd semester) Prereq – CHEM 211 and 220
5.	BIOL 244 (2 nd semester) Prereq – BIOL 120
6.	General Education
7.	General Education
8.	General Education

Third Year	
1.	PHYS 121 or PHYS 111 (1 st semester) Prereq – for PHYS 121 – MATH 131 or equivalent
2.	PHYS 122 or PHYS 112 (2 nd semester) Prereq – for PHYS 122 – PHYS 121; for PHYS 112 – PHYS 111
3.	CHEM 310 (1 st semester) Prereq – a grade of BC or above in CHEM 220 and 222 or CHEM 305 (2 nd semester) Prereq – CHEM 211 and 312
4.	BIOL 373 (2 nd semester) Prereq – BIOL 244 and CHEM 216 or 220
5.	General Education
6.	General Education
7.	Elective/Minor
8.	Elective/Minor

Fourth Year	
1.	CHEM 330 (1 st semester) Prereq – CHEM 211 and 222, MATH 124 or 131
2.	CHEM 332 (2 nd semester) Prereq – CHEM 330
3.	CHEM 350 (1 st semester) Prereq – CHEM 211 and 222
4.	CHEM 351 (2 nd semester) Prereq – CHEM 350
5.	General Education
6.	General Education
7.	Elective/Minor
8.	Elective/Minor

Elective/Minor courses can be used to take additional major courses, free electives, or to fulfill a minor.

There are many options and variations possible beyond the second year depending on interest and career path. Students should consult with their advisor and/or the chemistry discipline to arrange their schedules in the third and fourth years.

Progress Sheet Chemistry - Biochemistry

Student Name: _____ Student ID: _____	
General Education – Lower Biennium	Major
<input type="checkbox"/> GS1 – Religious Studies _____ <input type="checkbox"/> GS2 – Philosophy of Human Nature _____ <input type="checkbox"/> GS3 – Human Relationships _____ <input type="checkbox"/> GS4 – Natural Science _____ <input type="checkbox"/> GS5 – Creative Expression _____ <input type="checkbox"/> GS6 – United States Heritage _____ <input type="checkbox"/> GS7 – Foreign Heritages _____ <input type="checkbox"/> GS8 – Quantitative Skills _____ <input type="checkbox"/> GS9 – Writing _____ _____	Required Courses: <input type="checkbox"/> CHEM 105 – General Chemistry 1 <input type="checkbox"/> CHEM 107 – General Chemistry 2 <input type="checkbox"/> MATH 131 – Calculus and Analytic Geometry I or MATH 124 – Survey of Calculus <input type="checkbox"/> CHEM 220 – Organic Chemistry <input type="checkbox"/> CHEM 222 – Organic Chemistry: Intermediate or CHEM 232 – Organic Chemistry: Research Emphasis <input type="checkbox"/> CHEM 211 – Quantitative Analysis <input type="checkbox"/> CHEM 312 – Instrumental Analysis <input type="checkbox"/> PHYS 121 – General Physics I or PHYS 111 – Fundamentals of Physics I <input type="checkbox"/> PHYS 122 – General Physics II or PHYS 112 – Fundamentals of Physics II <input type="checkbox"/> CHEM 305 – Inorganic Chemistry or CHEM 310 – Organic Chemistry III <input type="checkbox"/> CHEM 330 – Physical Chemistry I <input type="checkbox"/> CHEM 332 – Physical Chemistry II <input type="checkbox"/> CHEM 350 – Biochemistry 1 <input type="checkbox"/> CHEM 351 – Biochemistry 2 <input type="checkbox"/> BIOL 120 – General Biology 1 <input type="checkbox"/> BIOL 121 – General Biology 2 <input type="checkbox"/> BIOL 244 – Genetics <input type="checkbox"/> BIOL 373 – Molecular Biology
General Education – Upper Biennium	
<input type="checkbox"/> GS1 – Religious Studies _____ <input type="checkbox"/> GS10 – Western Tradition _____ <input type="checkbox"/> GS11 – Global Society _____ <input type="checkbox"/> GS12 – Senior Colloquium (GENS 400) _____ _____	Note – A computer course such as BUAD 142 or CSCI 110 is recommended before the senior year. Students intending to go on to graduate studies should realize that mathematics courses such as MATH 132, 233, and 310 are required by many graduate programs in Chemistry.