SIMPSON COLLEGE
CHEMISTRY

CHEMISTRY MAJOR

Students will complete ten courses plus a capstone as follows:

REQUIRED COURSES:

- Chem 101 General Chemistry I
- Chem 102 General Chemistry II
- Chem 201 Organic Chemistry I
- Chem 202 Organic Chemistry II
- Chem 205 Quantitative Analysis
- Chem 301 Physical Chemistry
- Chem 330 Biochemistry
- Math 151 Calculus I
- Phys 191 General Physics I
- Phys 192 General Physics II

CAPSTONE:

- Chem 385 Capstone Writing and Presentation (.5 course)

AND

- Chem 369 Chemistry Seminar (.5 course)

OR

- Chem 319 Research /Internship

OR

- Chem 398 Research

Capstone Experience – The department allows students to fulfill the requirement of a capstone experience in a variety of ways. Students can combine a summer research experience (like an REU), an internship, a seminar (Chem 369 or 370) and/or on campus research experience (Chem 398) with Chem 385 – Capstone Writing and Presentation to complete the capstone requirement. Students using a seminar as part of the capstone experience will need to complete a literature review of a topic explored in the seminar as a basis for their paper and presentation in Chem 385.

Students interested in graduate work should plan on taking the following additional courses:

- Chem 302 Physical Chemistry II
- Chem 303 Physical Chemistry lab (.5 course)
- Chem 307 Instrumental Analysis
- Chem 369 Chemistry Seminar (.5 course)
- Chem 398 Independent Research
- Chem 350 Advanced Organic Chemistry
- Chem 290 Introduction to Nanoscience
- Chem 290/390 courses (as offered)
- Math 152 Calculus II

CHEMISTRY MINOR

Students will complete five courses as follows:

REQUIRED COURSES:

- Chem 101 General Chemistry I
- Chem 102 General Chemistry II

Choose one of the following:

- Chem 201 Organic Chemistry I
- Chem 202 Organic Chemistry II

Choose one of the following:

- Chem 205 Quantitative Analysis
- Chem 307 Instrumental Analysis

Choose one Chemistry Elective:

- Must be approved by the department.