

Suggested Course of Study for a Basic Major in Chemistry

First Year

Fall

Principles of Structural Chemistry
Calculus I
2 electives

Spring

Principles of Chemical Reactivity
Calculus II
2 electives

Second Year

Fall

Organic Chemistry I
General Physics I
2 electives

Spring

Organic Chemistry II
Organic Laboratory
General Physics II
1 elective

Third Year

Fall

Analytical Chemistry
Analytical Chemistry Laboratory
2 electives

Spring

Advanced Chemistry Elective (or 4th yr.)
Seminar in Chemistry I
2 electives

Fourth Year

Fall

Physical Chemistry I
Seminar in Chemistry II
2 electives

Spring

Advanced Chemistry Elective (or 3rd yr.)
3 electives

Checklist – Basic chemistry major

- ___ CHM-155: Principles of Structural Chemistry
- ___ CHM-165: Principles of Chemical Reactivity
- ___ CHM-185: Organic Chemistry I
- ___ CHM-215: Analytical Chemistry
- ___ CHM-210: Analytical Chemistry Lab
- ___ CHM-225: Organic Chemistry II
- ___ CHM-235: Organic Laboratory
- ___ CHM-415: Physical Chemistry I

One advanced chemistry elective chosen from

- ___ CHM 405: Biochemistry
- ___ CHM 425: Physical Chemistry II
- ___ CHM 515: Advanced Organic Chemistry
- ___ CHM 525: Advanced Analytical Chemistry
- ___ CHM 535: Inorganic Chemistry
- ___ CHM 565: Material Physics and Chemistry
- ___ CHM 575: Protein Biochemistry

- ___ PHY-216: General Physics I
- ___ PHY-226: General Physics II
- ___ MTH-145: Calculus II

- ___ CHM-705: Seminar in Chemistry I

-and-

- ___ CHM-715: Seminar in Chemistry II

-or-

- ___ OR-715,- 725: Study and Research at Oak Ridge Laboratory

-and-

- ___ CHM-715: Seminar in Chemistry II

Calculus III (MTH-255) is also recommended.