

Suggested Course of Study for an American Chemical Society certified degree in chemistry This schedule is highly recommended for graduate study in chemistry, and also recommended for employment in chemistry. If you want to do well on the GREs in chemistry (which will make the difference in getting into the best graduate schools), you need to have taken Physical Chemistry before your senior year. The GRE exam is typically taken in the fall of your senior year.

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
Analytical Chemistry
Analytical Laboratory
General Physics I

Spring

Organic Chemistry II
Organic Chemistry Laboratory
General Physics II
1 elective

Third Year

Fall

Physical Chemistry I
Advanced Lab (spring or fall)
Advanced Organic (optional)
1 elective

Spring

Physical Chemistry II
Advanced Analytical
2 electives
Seminar in Chemistry I

Summer Research (or two terms of independent study)

Fourth Year

Fall

Advanced Lab (spring or fall)
Biochemistry
Seminar in Chemistry II
2 electives

Spring

Inorganic Chemistry
Inorganic Chemistry Laboratory
3 electives

Checklist for an ACS certified major in chemistry

- ___ 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 405: Biochemistry
- ___ CHM-415: Physical Chemistry I
- ___ CHM 425: Physical Chemistry II
- ___ CHM 525: Advanced Analytical Chemistry
- ___ CHM 530: Inorganic Chemistry Laboratory
- ___ CHM 535: Inorganic Chemistry
- ___ Either CHM 545 Advanced Chemistry Laboratory I or
CHM 555 Advanced Chemistry Laboratory II

- ___ Either CHM-845 Summer Undergraduate Research or
CHM-805 and 815 Independent Study (two terms) or
OR 715, 725 Study and Research at Oak Ridge Laboratory

- ___ PHY-216: General Physics I
- ___ PHY-226: General Physics II
- ___ MTH-145: Calculus II (Calculus III is highly recommended.)

- ___ CHM-705: Seminar in Chemistry I
- ___ -and-
- ___ CHM-715: Seminar in Chemistry II
- ___ -or-
- ___ CHM-705: Seminar in Chemistry I
- ___ -and-
- ___ OR-715,- 725: Study and Research at Oak Ridge Laboratory

CHM 515 (Advanced Organic Chemistry) and additional math coursework are highly recommended.