



Chemistry (B.A.)

College of
Arts and Sciences

The Department of Chemistry offers the Bachelor of Arts degree program for students who want flexibility in the selection of courses in other fields of science in addition to basic education in chemistry. The B.A. program is designed particularly for students planning to enter the professional health fields, teach in secondary schools, or work in such areas as technical service, patent law, or ecology.

Bachelor of Arts in Chemistry

Students must fulfill University Studies and College requirements as they complete the following program:

Premajor Requirements

Chemistry: CHE 105, 107, and 115

Mathematics: MA 113 or MA 132; and MA 114

Major Requirements

Chemistry: CHE 226, 230, 231, 232, 233, 440G, 441G, 572 (two credits). The 10 hours associated with CHE 230, 231, 232, and 233 may be applied toward the College requirement of 39 hours at or above the 300 level.

Physics: PHY 211, 213

Chemistry Major Field Options: (21 credits). Any course numbered at the 300- or 500-level with the prefix CHE, ANA, BCH, BIO, CS, CME, GLY, MA, MI, MSE, PAT, PGY, PHA, PHR, PHY, PM, RM or STA. Credit will not be given for both BCH 401G and CHE 550 or CHE 552. Other courses may be approved as Major Field Options by the Undergraduate Program Committee of the Department of Chemistry. Students working towards teaching accreditation may count six credits in courses taken at or above the 300-level in the College of Education. Six credits of CHE 395 are recommended for students having a minimum 3.0 GPA in chemistry courses. Oral and written reports are required from CHE 395 students during their final semester of registration in CHE 395. A maximum of nine credits in undergraduate research or reading courses may be counted; such courses require approval of the Undergraduate Program Committee if the courses do not carry the CHE prefix.

Curriculum for B.A. in Chemistry

Freshman Year

First Semester

CHE 105 General College Chemistry I	3
ENG 101 Writing I	3
MA 113 Calculus I	4
University Studies (III-C)	3

Second Semester

CHE 107 General College Chemistry II	3
CHE 115 General Chemistry Laboratory	3
ENG 102 Writing II	3
MA 114 Calculus II	4
University Studies (III-C)	3

Sophomore Year

First Semester

CHE 230 Organic Chemistry I	3
CHE 231 Organic Chemistry Laboratory I	2
PHY 211 General Physics	5
University Studies (III-B)	3
Humanities/Social Science	3

Second Semester

CHE 226 Analytical Chemistry	3
CHE 232 Organic Chemistry II	3
CHE 233 Organic Chemistry Laboratory II	2
PHY 213 General Physics	5
University Studies (III-B)	3

Junior Year

First Semester

CHE 440G Introductory Physical Chemistry	4
Foreign Language I†	4
COM 199 Presentational Communication Skills††	1
University Studies	3
Major Field Option*	3

Second Semester

CHE 441G Physical Chemistry Laboratory	2
CHE 572 Seminar††	1
Foreign Language II†	4
University Studies (IV or V)	3
Major Field Option*	6

Senior Year

First Semester

Free Elective (A&S)	3
Foreign Language III†	3
Major Field Option*	6
University Studies (IV or V)	3

Second Semester

CHE 572 Seminar††	1
Major Field Option*	6
Foreign Language IV†	3
Free Elective (A&S)	3

*Major field options (21 credits) must be chosen from courses at the 300- to 500-level with the prefixes CHE, ANA, BCH, BIO, CS, CME, GLY, MA, MI, MSE, PAT, PGY, PHA, PHR, PHY, PM, RM or STA. Credit will not be given for both BCH 401G and CHE 550 or CHE 552. Other courses may be approved as Major Field Options by the Undergraduate Program Committee. Students working towards teaching accreditation may count six credits in courses taken at or above the 300-level in the College of Education. Six credits of CHE 395 are recommended for students having a minimum 3.0 GPA in chemistry courses. Oral and written reports are required from CHE 395 students during their final semester of registration in CHE 395. A maximum of nine credits in undergraduate research or reading courses may be counted; such courses require approval of the Undergraduate Program Committee if the courses do not carry the CHE prefix.

†Any foreign language sequence satisfying the College of Arts and Sciences requirement in foreign languages may be taken. German is recommended.

††COM 199 and two credits of CHE 572 satisfy the University Studies requirement for Oral Communication.