

First and Second Year Advising  
Academic Plan for **Chemistry BS**  
College of Arts and Sciences



*Preparing people to lead extraordinary lives*

Chemistry students must complete this list of University Core areas:

- Artistic Knowledge** (1 course/3 credit hours)
- Ethics** (1 course/3 credit hours)
- Historical Knowledge** (2 courses/6 credit hours)
- Literary Knowledge** (2 courses/6 credit hours)
- Philosophical Knowledge** (2 course/6 credit hours)
- Societal Knowledge** (2 courses/6 credit hours)
- Theological Knowledge** (2 courses/6 credit hours)
- Writing Seminar** (1 course/3 credit hours)

**Study Abroad** Chemistry majors should plan to study abroad in fall or spring of the sophomore year to complete up to eight credits of summer school. Consultation with the Chemistry Department is recommended.

**122 Total Credit Hours**

	FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
FALL	CHEM 105 Chemical Principles (4 credits)  MATH 118 Pre-Calculus II  UCWR 110 Writing Seminar  CORE  UNIV 101 First-Year Seminar (1 credit)	CHEM 221 Organic Chemistry I (4 credit hours)  MATH 162 Calculus II (4 credits)  PHYS 111K/111L College Physics I and Lab (4 credits)  Language 101	CHEM 212/214 Elementary Quantitative Analysis Lecture and Lab (4 credits)  CHEM 301 Physical Chemistry I (4 credits)  CHEM 370 Biochemistry  CORE	CHEM 340 Advanced Inorganic Chemistry  CHEM Elective  CHEM Elective  CORE  CORE
SPRING	CHEM 106 Basic Inorganic Chemistry (4 credits)  MATH 161 Calculus I (4 credits)  CORE  CORE  CORE	CHEM 222 Organic Chemistry 2 (4 hours)  MATH 263 Multivariable Calculus (4 credits)  PHYS 112K/112L College Physics II and Lab (4 credits)  Language 102	CHEM 300 Undergrad Research (1-6 credits)  CHEM 302/303 Physical Chemistry II and Lab (4 credits)  CORE  CORE  CORE	CHEM 314 Instrumental Analysis (4 Credits)  CHEM 341 Advanced Inorganic Lab (1 credit)  CORE  CORE  General Elective Credit

Students majoring in the College of Arts & Sciences must also complete two Writing Intensive courses, which may fulfill University Core or major requirements in addition.