

Bachelor of Science in Chemistry

University of Missouri-St. Louis

- **General Education Requirements**

(see UMSL Bulletin for details, note: these are the requirements as of Fall 2015)

First Year Writing: _____

Advanced Expository Writing-Junior Level English Requirement (Eng 3100 or Eng 3160 preferred):

American History and Government Requirement: (1 course)

Cultural Diversity Requirement (1 course, see Bulletin for list):

Communication Proficiency (1 course):

Information Literacy (1 course):

Social and Behavioral Sciences (9 hours):

Humanities and Fine Arts (9 hours):

Mathematical and Life/Natural Sciences (9 hours):

- **Core Curriculum**

- Chemistry 1111 Introductory Chemistry I (5)
- Chemistry 1121 Introductory Chemistry II (5)
- Chemistry 2223 Quantitative Analysis (3)
- Chemistry 3022 Intro. to Chemical Literature (1)
- Chemistry 3312 Physical Chemistry I (3)
- Chemistry 3322 Physical Chemistry II (3)
- Chemistry 3333 Lab in Physical Chemistry I (2)
- Chemistry 4343 Lab in Physical Chemistry II (2)

- Chemistry 3412 Basic Inorganic Chemistry (2)
- Chemistry 2612 Organic Chemistry I (3)
- Chemistry 2622 Organic Chemistry II (3)
- Chemistry 2633 Organic Chemistry Laboratory (2)
- Chemistry 4897 Seminar (1)
- Chemistry 4212 Instrumental Analysis (2)
- Chemistry 4233 Laboratory in Instrumental Analysis (2)
- Chemistry 4412 Inorganic Chemistry (3)
- Chemistry 4433 Inorganic Chemistry Laboratory (2)
- Chemistry 3643 Advanced Organic Chemistry Laboratory (2)
- Chemistry 4712 Biochemistry (3)
- Two elective credits of advanced work in chemistry at the 3000 level or above. Students are encouraged to take Chemistry 3905.

- **Related Area Requirements:**

- Math 1800 Analytical Geometry & Calculus I (5)
- Math 1900 Analytical Geometry & Calculus II (5)
- Math 2000 Analytical Geometry & Calculus III (5)
- Phys 2111 Physics: Mechanics and Heat (5)
- Phys 2112 Physics: Electricity, Magnetism & Optics (5)

- **Major Field Achievement Test:**

- **Electives:**

- _____
- _____