**Requirements for a Bachelor of Arts in Chemistry with a Biochemistry emphasis:** This degree is intended to provide students whose interest in chemistry is focused on the synthetic and biochemical aspects with a more attractive degree path, to provide a B.A. degree for students with these chemistry interests who are also interested in developing their foreign language skills and to provide students with a pre-professional focus (pre-medical, pre-dental, pre-pharmacy, etc.) with an attractive chemistry degree option in which the calculus, physics and physical chemistry requirements are more appropriate for their needs and interests.

**Candidates must complete the following chemistry courses:**

**B.A. in Chemistry with a Biochemistry Emphasis:**

1111 - Introductory Chemistry I (5)
1121 - Introductory Chemistry II (5)
2223 - Quantitative Analysis (3)
3022 - Introduction to Chemical Literature (1)
3302 - Physical Chemistry for the Life Sciences (3)
3412 - Basic Inorganic Chemistry (3)
2612 - Organic Chemistry I (3)
2622 - Organic Chemistry II (3)
2633 - Organic Chemistry Laboratory (2)
3643 – Advanced Organic Chemistry Lab (2)
4712 – Biochemistry (3)
4722 – Advanced Biochemistry (3)
4733 – Biochemistry Lab (2)
4897 – Seminar (2)

**Bachelor of Arts with a Biochemistry Emphasis: Candidates for these degrees must also complete:**

Mathematics 1100 – Basic Calculus (3) or
Mathematics 1800, Analytic Geometry and Calculus I (5)

Physics 1011 – Basic Physics I (3)
Physics 1011L – Basic Physics Laboratory (1)
Physics 1012 – Basic Physics II (3)
Physics 1012L – Basic Physics Laboratory (1)
No more than 45 hours in chemistry may be applied toward the degree. Each chemistry major must present a seminar and pass a comprehensive examination during the senior year.

At least 12 credits of chemistry at the 3xxx level or higher must be completed at UMSL.