B.S. Degree in Biochemistry and Biotechnology

Name _____
_____
Start _____

Biology Core Courses
_____ **Biol 1811**, Introductory Biology: From Molecules to Organisms
_____ **Biol 2012**, Genetics
_____ **Biol 2013**, Genetics Laboratory
_____ **Biol 2482**, Microbiology
_____ **Biol 2483**, Microbiology Laboratory
_____ **Biol 3622**, Cell Biology
_____ **Biol 4602**, Molecular Biology

Chemistry Core Courses
_____ **Chem 1111**, Introductory Chemistry I
_____ **Chem 1121**, Introductory Chemistry II
_____ **Chem 2223**, Quantitative Analysis
_____ **Chem 2612**, Organic Chemistry I
_____ **Chem 2622**, Organic Chemistry II
_____ **Chem 2633**, Organic Chemistry Laboratory
_____ **Chem 3302**, Physical Chemistry for Life Sciences

Math and Physics Core Courses
_____ **Math 1030**, College Algebra
_____ **Math 1035**, Trigonometry
_____ **Math 1100**, Basic Calculus **or Math 1800**, Analytic Geometry and Calculus I
_____ **Phys 1011**, Basic Physics
_____ **Phys 1012**, Basic Physics

Biochemistry and Biotechnology Core Courses
_____ **Biol 4712 or Chem 4712**, Biochemistry
_____ **Biol 4713**, Techniques in Biochemistry **or Chem 4733**, Biochemistry Laboratory
_____ **Biol 4614**, Biotechnology Laboratory I

Biochemistry and Biotechnology Elective Courses – 9 credit hours chosen from the courses below:
_____ **Biol 4612**, Molecular Genetics of Bacteria (3)
_____ **Biol 4622** Molecular Cell Biology (3)
_____ **Biol 4632**, Nucleic Acid Structure and Function (3)
_____ **Biol 4615**, Biotechnology Laboratory II (4)
_____ **Chem 3643**, Advanced Organic Chemistry Lab (2)
_____ **Chem 4722**, Advanced Biochemistry (3)
_____ **Chem 4764**, Interdisciplinary Topics in Biochemistry (3)
_____ **Chem 4772**, Physical Biochemistry (3)

MFAT: Major Field Achievement Test: Contact Professor D'Souza; vally@umsl.edu