MAJOR REQUIREMENTS for a BACHELOR OF SCIENCE in CHEMISTRY (BIOCHEMISTRY)

MINIMUM DEGREE CREDIT HOURS REQUIRED TO GRADUATE = 120 (CORE + MAJOR + GENERAL ELECTIVES)

MATH 2554 Calculus I
MATH 2564 Calculus II

PHYSICS (2 courses • 8 hours)
- PHYS 2013/2011L College Physics I
- PHYS 2033/2031L College Physics II
- PHYS 2054 University Physics I
- PHYS 2074 University Physics II

Note: These mathematics and physics prerequisite requirements are substantial, and these courses and their prerequisites should be scheduled early in the student’s program.

BIOLOGY (4 courses • 15 hours)
- BIOL 1543/1541L Principles of Biology
- BIOL 2013/2011L General Microbiology
- BIOL 2533/2531L Cell Biology
- BIOL 2323 General Genetics
- BIOL 4233 Genomics and Bioinformatics

CHEMISTRY WRITING REQUIREMENT
- Satisfied by the formal research/analytical reports required in Physical Chemistry Laboratory—CHEM 3451L or CHEM 3512L—or by completing an honors thesis.

CHEMISTRY (38 hours minimum)
- CHEM 1203/1201L Chemistry for Majors I
- CHEM 1223/1221L Chemistry for Majors II
- CHEM 1103/1101L University Chemistry I
- CHEM 1123/1121L University Chemistry II
- CHEM 2263/2261L Analytical Chemistry
- CHEM 3703/3702L Organic Chemistry for Majors I
- CHEM 3713/3712L Organic Chemistry for Majors II
- CHEM 3453/3451L Elements of Physical Chemistry
- CHEM 3514/3512L Physical Chemistry II
- CHEM 4813H Honors Biochemistry I (same as CHEM 5813)
- CHEM 4843H Honors Biochemistry II (same as CHEM 5843)
- CHEM 4123 Advanced Inorganic Chemistry I (fall only)
- CHEM 4213/4211L Instrumental Analysis (spring only)
- CHEM 4853 Biochemical Techniques (spring only)
- CHEM 4853 Biochemical Techniques (spring only)
- CHEM 400V (chemistry research)
- CHEM 498V (senior thesis)

Note: anytime a “for majors” course option is completed, it will suffice to complete the “not for majors” prerequisite listed above.