

**MAJOR REQUIREMENTS for a BACHELOR OF ARTS in CHEMISTRY (BIOCHEMISTRY)**

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

**WORLD LANGUAGE up to the Intermediate I (2003) level or higher (hours vary)**

- 
- \_\_\_\_\_ (2003)

**MATHEMATICS (1 course • 3-4 hours)**

- 
- MATH 2043 Survey of Calculus

or

- 
- MATH 2554 Calculus I

**PHYSICS (2 courses • 8 hours)**

- 
- PHYS 2013/2011L College Physics I

- 
- PHYS 2033/2031L College Physics II

or

- 
- 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 • 11 hours minimum with at least 3 hours numbered 3000 or higher)**

- 
- BIOL \_\_\_\_\_

- 
- BIOL \_\_\_\_\_

- 
- BIOL \_\_\_\_\_

- 
- BIOL \_\_\_\_\_

**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 (33 hours minimum)**

- 
- CHEM 1203/1201L Chemistry for Majors I

- 
- CHEM 1223/1221L Chemistry for Majors II

or

- 
- 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

or

- 
- CHEM 3603/3601L Organic Chemistry I

- 
- CHEM 3613/3611L Organic Chemistry II

- 
- CHEM 3453/3451L Elements of Physical Chemistry (
- fall only*
- )
- 
- (pre-requisite: CHEM 2263/2261L)

or

- 
- CHEM 3504 Physical Chemistry I (
- fall only*
- )

(pre or co-requisite: MATH 2564; pre-requisite: CHEM 2263/2261L &amp; PHYS 2074)

- 
- CHEM 3514/3512L Physical Chemistry II (
- spring only*
- )
- 
- (pre-requisite: CHEM 3504)

- 
- CHEM 4813H Honors Biochemistry I

- 
- CHEM 4843H Honors Biochemistry II

or

- 
- CHEM 3813 Elements of Biochemistry

- 
- CHEM 4213/4211L Instrumental Analysis (
- spring only*
- )

(pre-requisite: CHEM 2263/2261L &amp; CHEM 3613/3611L)

or

- 
- CHEM 3813 Elements of Biochemistry

- 
- CHEM 4123 Advanced Inorganic Chemistry I (
- fall only*
- )

(pre-requisite: CHEM 3453)

or

- 
- CHEM 3813 Elements of Biochemistry

- 
- CHEM 4723 Experimental Methods in Organic Chemistry (
- fall only*
- )

(pre-requisite: CHEM 3613/3611L)

- 
- CHEM 4853 Biochemical Techniques (
- spring only*
- )

(pre or co-requisite: CHEM 3813 or CHEM 4843H)

or

- 
- Completion of a senior thesis based on independent research wherein at least one credit hour is earned in CHEM 400V (chemistry research) and/or CHEM 498V (senior thesis) during each of three different semesters.

**Note:** Anytime a "for majors" course option is completed, it will suffice to complete the "not for majors" pre-requisite listed above.