



**MAJOR REQUIREMENTS for a BACHELOR OF SCIENCE in CHEMISTRY**

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

**MATHEMATICS (3 courses • 12 hours)**

- MATH 2554 Calculus I
- MATH 2564 Calculus II
- MATH 2574 Calculus III

**PHYSICS (2 courses • 8 hours)**

- 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.*

**CHEMISTRY (11 courses • 45 hours)**

- 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  
*(pre-requisite: CHEM 1123/1121L)*
  
- CHEM 3703/3702L Organic Chemistry for Majors I
- CHEM 3713/3712L Organic Chemistry for Majors II
  
- CHEM 3504 Physical Chemistry I *(fall only)*  
*(pre-requisite: CHEM 2263 & PHYS 2074; pre or co-requisite: MATH 2564)*
- CHEM 3514/3512L Physical Chemistry II *(spring only)*  
*(pre-requisite: CHEM 3504)*
  
- CHEM 4123 Advanced Inorganic Chemistry I *(fall only)*  
*(pre-requisite: CHEM 3453)*
- CHEM 4213/4211L Instrumental Analysis *(spring only)*  
*(pre-requisite: CHEM 2263/2261L & CHEM 3613/3611L)*
- CHEM 4723 Experimental Methods in Organic Chemistry *(fall only)*  
*(pre-requisite: CHEM 3613/3611L)*

Select any CHEM lecture course numbered 3000 or higher:

- CHEM \_\_\_\_\_

**Note:** *This program meets the minimum requirements for certification by the American Chemical Society if CHEM 3813 Intro to Biochemistry or CHEM 4813H/CHEM4843H Honors Biochemistry I/II is included.*

**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.

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