

**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 & 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 & 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.