



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

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

—SELECT ONE OPTION (A or B) FROM BELOW:

**OPTION A (4 courses • 15-16 hours)**

- MATH 2043 Survey of Calculus

or

- MATH 2554 Calculus I

- PHYS 2013/2011L College Physics I

- PHYS 2033/2031L College Physics II

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

—or—

**OPTION B (5 courses • 22 hours)**

- MATH 2564 Calculus II

- PHYS 2054 University Physics I

- PHYS 2074 University Physics II

- CHEM 3504 Physical Chemistry I (*fall only*)  
(*pre-requisite: CHEM 2263/2261L & PHYS 2074*)

- CHEM 3514/3512L Physical Chemistry II (*spring only*)  
(*pre or co-requisite: MATH 2564*)

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

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

**CHEMISTRY CORE (5 courses • 20-22 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

- 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

**CHEMISTRY ELECTIVES numbered 3000 or higher (2 courses • 6 hours)**

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

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

**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.