

# Biology/Pre-Medicine (A.S.)

Division of Biology, Chemistry & Physics — Curriculum Code 0601

*Will Earn Upon Program Completion: Associate in Science (A.S.) Degree*

Biology is the primary life science from which students can enter specific fields of study as diverse as molecular biology, forestry, pathophysiology, neuroanatomy, and parasitology. Biology also provides the foundation for students who wish to become pharmacists, physicians, dentists, or other medical professionals. The curriculum is equivalent to the first two years of a bachelor's program in Biology. Emphasis is placed on the scientific method and critical analysis that will enable you to be a contributor to any scientific or medical team.

## COURSES

## Program Requirements

### **GENERAL EDUCATION REQUIREMENTS (33 CREDITS)**

Written & Oral Communication (6 credits)

[ENG 101](#) (3 credits)

[ENG 102](#) (3 credits)

Quantitative Knowledge & Skills (4 credits)

[MTH 119](#) (4 credits)

Scientific Knowledge & Reasoning (8 credits)

[BIO 103](#) (4 credits)

[BIO 104](#) (4 credits)

Society & Human Behavior (6 credits)

Choose two of the following courses: [ANT 101](#)[ANT 105](#)[ECO 101](#)[ECO 102](#)[POL 101](#)[POL 104](#)[PSY 101](#)[PSY 102](#)[PSY 219](#)[SOC 101](#)[SOC 108](#)or [SOC 219](#) (two 3-credit courses)

Humanistic Perspective (6 credits)

Choose one of the following literature courses: [ENG 205](#)[ENG 208](#)[ENG 215](#)[ENG 221](#)[ENG 222](#)[ENG 232](#)[ENG 237](#)[ENG 238](#)[ENG 242](#)[ENG 250](#)[ENG 263](#)or [ENG 264](#) (one 3-credit course)

AND

Choose one of the following art or music courses: [ART 100](#)[ART 101](#)[ART 102](#)[MUS 100](#)[MUS 108](#)[MUS 109](#)or [MUS 117](#) (one 3-credit course)

Historical Perspective (3 credits)

Choose one of the following history courses: [HST 101](#)[HST 102](#)[HST 111](#)[HST 112](#)[HST 121](#)[HST 122](#)[HST 131](#)[HST 132](#)[HST 134](#)[HST 135](#)[HST 136](#)[HST 137](#)[HST 161](#) or [HST 162](#) (one 3-credit course)

### **MAJOR COURSE REQUIREMENTS (28 CREDITS)**

[CHM 103](#) General Chemistry I (4 credits)

[CHM 104](#) General Chemistry II (4 credits)

[MTH 120](#) Pre-Calculus II (4 credits)

[PHY 101](#) College Physics I and [PHY 102](#) College Physics II (two 4-credit courses) or [CHM 203](#) Organic Chemistry I and [CHM 204](#) Organic Chemistry II (two 4-credit courses)

Choose two of the following Biology electives\*: [BIO 211](#) Microbiology, [BIO 220](#) Introduction to Environmental Science, [BIO 225](#) Plant Science, [BIO 228](#) Molecular Biology, [BIO 230](#) Ecology and Evolution, [BIO 237](#) Genetics and/or [BIO 290](#) Honor Biology Research Seminar (two 4-credit courses)

*Notes:*

(1)\*The sequence [BIO 121](#) – [BIO 122](#) (a total of 8 credits) may be substituted for one 4-credit Biology elective.

(2)The minimum passing grade for all courses designated BIO, CHM, MTH or PHY is “C.” If you earn a grade below “C,” you need to repeat that course.

### **RECOMMENDED SEQUENCE OF COURSES**

Total Credits Required for Degree: 61

First Semester

[BIO 103](#) General Biology I (4 credits)

[ENG 101](#) College Composition I (3 credits)

[CHM 103](#) General Chemistry I (4 credits)

[MTH 119](#) Pre-Calculus I (4 credits)

Second Semester

[BIO 104](#) General Biology II (4 credits)

[ENG 102](#) College Composition II (3 credits)

[CHM 104](#) General Chemistry II (4 credits)

[MTH 120](#) Pre-Calculus II (4 credits)

Society & Human Behavior requirement (one 3-credit course)

Third Semester

[PHY 101](#) College Physics I or [CHM 203](#) Organic Chemistry I (4 credits)

Biology elective (one 4-credit course)

Society & Human Behavior requirement (one 3-credit course)

Humanistic Perspective literature requirement (one 3-credit course)

Fourth Semester

[PHY 102](#) College Physics II or [CHM 204](#) Organic Chemistry II (4 credits)

Biology elective (one 4-credit course)

Humanistic Perspective art or music requirement (one 3-credit course)

Historical Perspective requirement (one 3-credit course)

NOTES:

(1) The two General Education Integrated Course Goals, Ethical Reasoning & Action and Information Literacy, are both addressed by the required curriculum described above, regardless of specific choices made by the individual student.

(2) This plan assumes the completion of all required developmental courses in Reading, English, and Mathematics as well as other [pre-requisites](#) and [co-requisites](#) for some of the courses, as listed in the Course Descriptions section.