

LIBERAL ARTS AND SCIENCES

Associate in Science Degree | Transfer Degree | Department of Biological Sciences

Biology Option

A student interested in the Associate in Science (AS) degree in Liberal Arts and Sciences has to choose one of four options that includes Biology. The option prepares students for transfer to a complementary four-year degree program. Students in the Biology option transfer to four-year science programs (biochemistry, biology, chemistry, earth and environmental science, etc.), teacher education programs, pharmacy schools, or engineering programs (biomedical, chemical, environmental). Enrichment programs are offered to encourage students to continue their education beyond the bachelor degree by attending graduate or other professional programs (e.g., medical school, physician assistant programs, physical therapy programs).

Curriculum Coordinator: Dr. Charles Maliti

Liberal Arts and Sciences Curriculum (Pathways)

60 Credits required for AS Degree

Required Core

- A. English Composition (6 Credits)
- B. Mathematical and Quantitative Reasoning
 - MTH 30¹ Pre-Calculus Mathematics *OR*
MTH 31 Analytic Geometry and Calculus I (4 Credits)
- C. Life and Physical Science
 - CHM 11¹ General College Chemistry I (4 Credits)

Flexible Core

- A. World Cultures and Global Issues (3 Credits)
- B. U.S. Experience in its Diversity (3 Credits)
- C. Creative Expression (3 Credits)
- D. Individual and Society (3 Credits)
- E. Scientific World
 - CHM 12¹ General College Chemistry II (4 Credits)

Restricted Elective Select one course from Area A-E² (3 Credits)

SUBTOTAL 33

Major Requirements

- MTH 31³ Analytic Geometry and Calculus I (0 - 4 Credits)
- MTH 32 Analytic Geometry and Calculus II (5 Credits)
- Free Electives (0 - 5 Credits)

Biology Option Requirements

- BIO 11 General Biology I (4 Credits)
- BIO 12 General Biology II (4 Credits)
- CHM 31 Organic Chemistry I (5 Credits)
- CHM 32 Organic Chemistry II (5 Credits)

SUBTOTAL 27

¹ This program has obtained a waiver to require STEM variant courses in Required Core Area B and Area C and Flexible Core Area E. If students transferring into this program complete different courses in these areas, they will be certified as having completed the Common Core requirements, but it may not be possible for them to finish their degree within the regular number (60) of credits.

² Restricted Elective: must select one course from Flexible Core A-E. No more than two courses in any discipline or interdisciplinary field.

³ Students in this major are required to take MTH 30 or MTH 31 to fulfill required Core Area B. Note that MTH 30 is a prerequisite to MTH 31, so students who take MTH 30 to fulfill Required Core B will not have free elective credits.

The Biology Option fully articulates with Lehman's B.S. in Physical Anthropology and B.A. in Biology. The Biology Option also articulates with SUNY Empire State College. Copies of these agreements may be found on the BCC Transfer Planning website.