ABOUT THE PROGRAMS

The Liberal Arts and Sciences curriculum prepares a student to be an accomplished and productive human being. A liberal arts degree opens doors to the professions and to rewarding and responsible careers. Future physicians, teachers, scientists, lawyers, and businessmen, for example, develop themselves as well-rounded, individuals, in addition to completing their pre-professional work. The academic experiences in liberal arts and sciences provide the foundation for later specialization, graduate study, and professional school.

The general Associate in Arts (A.A.) provides a well-rounded background and the opportunity to explore a variety of subject areas, so that graduates may transfer to the third year of a senior college. Those who wish to pursue a program that allows a greater degree of specialization in the first two years of college may select one of the following options: Education; History; Human Services; International Studies; Media Studies; Performing Arts; Political Science; Psychology; Sociology; Spanish; Speech Pathology. Please note that details on the options are detailed with their respective academic departments (see list at the bottom of this page or the table of contents of this catalog). The Liberal Arts and Sciences A.A. with no option is detailed on the following page.

The Associate of Science (A.S.) degree is designed with a greater emphasis in mathematics and science than the Associate of Arts degree. A student interested in the Associate in Science (A.S.) degree in Liberal Arts and Sciences has to choose one of four options: Biology, Chemistry, Earth Systems and Environmental Science, or Physics. Each option prepares students for transfer to a complementary four-year degree program. Students in the Biology, Chemistry, or Earth Systems and Environmental Science options transfer to four-year science programs (biochemistry, biology, chemistry, earth and environmental science, etc.), teacher education programs, pharmacy schools, engineering programs (biomedical, chemical, environmental), or physician assistant or physical therapy programs. Students in the Physics option usually transfer to colleges offering bachelor’s degrees in engineering (civil, electrical, mechanical, etc.) or in the physical sciences. Enrichment programs are offered to encourage students to continue their education beyond the bachelor degree by attending graduate or other professional schools.

Liberal Arts and Sciences A.A.
- General / No Option
- Education (Education and Reading Department)
- History (History Department)
- Human Services (Social Sciences Department)
- International Studies (Social Sciences Department)
- Media Studies (Communication Arts and Sciences Department)
- Performing Arts (Communication Arts and Sciences Department)
- Political Science (Social Sciences Department)
- Psychology (Social Sciences Department)
- Sociology (Social Sciences Department)
- Spanish (Modern Languages Department)
- Speech Pathology (Communication Arts and Sciences Department)

Liberal Arts and Sciences A.S.
- Biology (Biology and Medical Lab Technology Department)
- Chemistry (Chemistry and Chemical Technology Department)
- Earth Systems and Environmental Science (Chemistry and Chemical Technology Department)
- Physics (Physics and Technology Department)

LIBERAL ARTS AND SCIENCES
Associate in Arts Degree | Transfer Degree Program

Liberal Arts and Sciences Curriculum (Pathways)
60 Credits required for A.A. Degree
Curriculum Coordinator: Dr. Debra Gonsher

Required Core
A. English Composition (6 Credits)
B. Mathematical and Quantitative Reasoning (3 Credits)
C. Life and Physical Sciences 1 (3-4 Credits)
SUBTOTAL: 12-13

Flexible Core
A. World Cultures and Global Issues (6 Credits)
B. U.S. Experience in Diversity (3 Credits)
C. Creative Expression (3 Credits)
D. Individual and Society (3 Credits)
E. Scientific World (3 Credits)
SUBTOTAL: 18
Required Areas of Study I

NOTE: Students will complete a minimum of six credits of these requirements within the Flexible Core. Transfer students who have completed Common Core requirements at a previous institution will not be required to complete credits in excess of the 60 credit requirement.

- ART 11 Introduction to Art History OR
  ART 12 Introduction to Art History: Africa, the Americas, Asia and the Middle East (0-3 Credits)
- MUS 11 Introduction to Music OR
  MUS 12 Introduction to Music: A Multi-Cultural Survey of World Music (0-3 Credits)
- COMM 11 Fundamentals of Interpersonal Communication (0-3 Credits)
- COMMUNICATION Select ONE from COMM, THEA, FILM, MEST (0-3 Credits)
- ENGLISH English Elective* (0-3 Credits)
- HIS 10 History of the Modern World OR
  HIS 11 Introduction to the Modern World (3 Credits)
- HISTORY Select ONE from HIS, GEO, PHL (0-3 Credits)
- MODERN LANGUAGE Select TWO from the same language (0-6 Credits)
- SOCIAL SCIENCE Select TWO courses from ANT, CRJ, ECO, HSC, POL, PSY, and SOC (0-6 Credits)

Required Areas of Study II

- PEA Physical Education OR
  HLT 91 Critical Issues in Health (1-2 Credits)
- LAB SCIENCE 1 (0-1 Credit)
- FREE ELECTIVES (0-10 Credits)

SUBTOTAL: 29-30

1 This requirement is satisfied if a student takes a 4-credit STEM variant course in Required Area C.

2 Choose from any ENG course above ENG 16 with the exception of ENG 223.

LIBERAL ARTS AND SCIENCES (PRE-PATHWAYS)

If you began studying at BCC in or after Fall 2013, Pathways applies. Pathways also applies to students who have returned to CUNY after an absence of more than one semester. If you are a continuing student who entered before Fall 2013, you will be able to choose whether you remain with your existing requirements or change to Pathways. You should consult with an academic advisor.

Associate in Arts Degree | Transfer Degree Program

Liberal Arts and Sciences Curriculum

60 Credits required for A.A. Degree

Curriculum Coordinator: Dr. Debra Gonsher

Core Requirements

- ENG 10 Fundamentals of Composition and Rhetoric OR
  ENG 11 Composition and Rhetoric I (3 Credits)
- ENG 12 Composition and Rhetoric II (3 Credits)
- CMS 11 Fundamentals of Interpersonal Communication (3 Credits)
- HIS 10 History of the Modern World OR
  HIS 11 Introduction to the Modern World (3 Credits)
- MTH 21* Survey of Mathematics I OR MTH 22* Survey of Mathematics II OR MTH 23* Probability and Statistics OR
  MTH 26* Mathematics in the Modern World (3 Credits)
- PEA Physical Education OR
  HLT 91 Critical Issues in Health (1-2 Credits)
- SCIENCE Choose two laboratory science courses from Astronomy, Biology, Chemistry, Earth Science, Environmental Science OR Physics (8 Credits)

TOTAL 24-25

Required Areas of Study

- ART 11 Introduction to Art (3 Credits)
- MUS 11 Introduction to Music (3 Credits)
- HIS 20 American Nation: Political and Social Development of a People (3 Credits)
- MODERN LANGUAGE** (8 Credits)
- ENG*** English (3 Credits)
- CMS 20 Public Speaking and Critical Listening (3 Credits)
- SOCIAL SCIENCE Choose from Anthropology, Economics, Geography, Philosophy, Political Sciences, Psychology, and Sociology (select from different disciplines) (6 Credits)
- RESTRICTED ELECTIVE—Select from English, History OR Social Science (3 Credits)

TOTAL 32

FREE ELECTIVES

- To complete the 60 credit requirement (3-4 Credits)

NOTE: At least two courses must be taken from a list designated as “Writing Intensive” as published each semester in the Registration Guide and Schedule of Classes.

*Students may substitute MTH 30 or 31 if they reduce elective credits.

**Choose from a foreign language at the appropriate level. Both courses must be in the same language.

***Excluding English 23, Technical Writing.
LIBERAL ARTS AND SCIENCES
Associate in Science Degree | Transfer Degree

Liberal Arts and Sciences Curriculum (pathways)
60 Credits required for A.S. Degree

Required Core
A. English Composition (6 Credits)
B. Mathematical and Quantitative Reasoning
   • MTH 30 Pre-Calculus Mathematics OR
     MTH 31 Analytic Geometry and Calculus I (4 Credits)
C. Life and Physical Science
   • CHM 11 General Chemistry I (4 Credits)

SUBTOTAL 14

Flexible Core
A. World Cultures and Global Issues (3 Credits)
B. US Experience and its Diversity (3 Credits)
C. Creative Expression (3 Credits)
D. Individual and Society (3 Credits)
E. Scientific World
   • CHM 12 General Chemistry II (4 Credits)

*Restricted Elective Select one course from Area A-E. (3 Credits)

SUBTOTAL 19

Specialization Requirements
• MTH 31 Analytic Geometry and Calculus I** (0 - 4 Credits)
• MTH 32 Analytical Geometry and Calculus II (5 Credits)
• Specialization requirements for option*** (17-18 Credits)
• FREE ELECTIVES (0 - 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.

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

**For students that take MTH 30 to fulfill the Required Core.

***See your department advisor for the appropriate sequence of specialization courses. Students transferring to a college of pharmacy should complete BIO 11 and 12.

LIBERAL ARTS DEGREE PROGRAMS | 2014-2015 COLLEGE CATALOG
LIBERAL ARTS DEGREE PROGRAMS

(PRE-PATHWAYS)

If you began studying at BCC in or after Fall 2013, Pathways applies. Pathways also applies to students who have returned to CUNY after an absence of more than one semester. If you are a continuing student who entered before Fall 2013, you will be able to choose whether you remain with your existing requirements or change to Pathways. You should consult with an academic advisor.

Associate in Science Degree | Transfer Degree

Core Requirements

• ENG 10 Fundamentals of Composition and Rhetoric OR ENG 11 Composition and Rhetoric I (3 Credits)
• ENG 12* Composition and Rhetoric II (3 Credits)
• CMS 11 Fundamentals of Interpersonal Communication (3 Credits)
• HIS 10 History of the Modern World OR HIS 11 Introduction to the Modern World (3 Credits)
• PEA Physical Education OR HLT 91 Critical Issues in Health (1-2 Credits)

TOTAL 13-14

Required Areas of Study

• CHM 11 General Chemistry I (4 Credits)
• CHM 22 General Chemistry II with Qualitative Analysis (5 Credits)
• MTH 31 Analytic Geometry and Calculus I (4 Credits)
• MTH 32 Analytic Geometry and Calculus II (5 Credits)
• ART 11 Introduction to Art OR MUS 11 Introduction to Music OR Humanities OR Social Sciences** (3 Credits)
• MODERN LANGUAGE† (0-8 Credits)

TOTAL 21-29

Specialization Requirements # (17-18 Credits)

*Students in the Earth Systems and Environmental Science Option may also select from ENG 14, ENG 15, OR ENG 16.
**See your advisor to determine the appropriate course from an approved list of Humanities or Social Science courses.
†Modern Language is a requirement for students planning to transfer to a CUNY four-year college and major in biology, chemistry, earth science or physics. Students planning to transfer should see the language requirements for the four-year degree program at the senior college.

# See your department advisor for the appropriate sequence of specialization courses. Students transferring to a college of pharmacy should complete BIO 11 and 12.

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.

BIOLOGY AND MEDICAL LAB TECHNOLOGY DEPARTMENT

Curriculum Coordinator: Dr. Charles Maliti

Biology Option

• 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)

TOTAL 18

DEPARTMENT OF CHEMISTRY AND CHEMICAL TECHNOLOGY

Curriculum Coordinator: Dr. Nicolas Anuku

Chemistry Option

• CHM 31 Organic Chemistry I (5 Credits)
• CHM 32 Organic Chemistry II (5 Credits)
• CHM 33 Quantitative Analysis (4 Credits)
• BIO 11 General Biology I OR PHY 11 Physics I (4 Credits)

TOTAL 18

PHYSICS AND TECHNOLOGY DEPARTMENT

Curriculum Coordinator: Dr. Akhil Lal

Physics Option

• PHY 31 General Physics I (4 Credits)
• PHY 32 General Physics II (4 Credits)
• PHY 33 General Physics III (4 Credits)
• MTH 33 Analytic Geometry and Calculus III (5 Credits)

TOTAL 17

NOTE: At least two courses must be taken from a list designated as “Writing Intensive” as published each semester in the Registration Guide and Schedule of Classes.