

Pre-Major Associate in Science Articulation Agreement: Biology and Biology Education (A1040A)

This template has been developed by university and community college faculty as a blueprint for guiding community colleges in developing programs for students who intend to major in Biology and Biology Education. Students who successfully complete this course of study and who meet the requirements for admission to the university may be eligible to apply for admission to the major with junior standing.

All community colleges will not offer all pre-major programs and course selections may vary. Check college catalogs for course and program offerings.

General Education Core (46 SHC)* Forty-six semester hours of credit in general education core courses are required as outlined on the NCCCS Curriculum Standards for Associate in Science degree programs. The general education core includes study in the areas of humanities and fine arts, social and behavioral sciences, natural sciences and mathematics, and English composition.

English Composition (6 SHC) *Two English composition courses are required.*
English 111, Expository Writing, is required as the first composition course.
The second composition course must be selected from the following:

ENG 112	Argument-Based Research
ENG 113	Literature-Based Research
ENG 114	Professional Research and Reporting

Humanities/Fine Arts (9 SHC)** *Three courses from three discipline areas are required.*
One course must be a literature course.
Two additional courses from the following discipline areas are required: art, drama, dance, foreign languages, interdisciplinary humanities, music, philosophy, and religion.

Social/Behavioral Sciences (9 SHC) *Three courses from three discipline areas are required.*
One course must be a history course.
Two additional courses from the following discipline areas are required: anthropology, economics, geography, political science, psychology, and sociology.

Natural Sciences/Mathematics (22 SHC)
Natural Sciences (16 SHC minimum):
The following courses are required:

BIO 111	General Biology (4 SHC)
CHM 151	General Chemistry I (4 SHC)
CHM 152	General Chemistry II (4 SHC)

One of the following courses is required:

BIO 112	General Biology II (4 SHC) <i>or</i>
BIO 120	Intro. Botany (4 SHC) <i>or</i>
BIO 130	Intro. Zoology (4 SHC)

Mathematics (6 SHC minimum): *A minimum of two courses are required.*
MAT 171 (or higher) Precalculus Algebra (3 SHC)
The second course may be higher level mathematics course(s) or may be selected from among other quantitative subjects, such as computer science (CIS) and statistics (MAT).

Other Required Hours (18-19 SHC)* One semester hour of credit may be included in a sixty-five semester hour credit associate in science program. The transfer of the 65th hour is not guaranteed. A minimum of 18 SHC of college transfer courses in general education, pre-major or elective courses are required.

Eighteen (18) hours of approved college transfer courses are required.

One of the following sequences of courses is recommended:

CHM 251 and 252 Organic Chemistry I & II (8 SHC) *or*

PHY 151 and 152 College Physics I & II (8 SHC) *or*

#PHY 251 and 252 General Physics I & II (8 SHC)

Four (4) hours of approved biology college transfer courses are recommended.

#Only students who place into MAT 272 (Calculus II) may choose PHY 251 and 252.

Total Semester Hours Credit (SHC) in Program: 64-65

- * **Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.**
- ** **3 SHC in Speech/Communication may be substituted for 3 SHC in Humanities/Fine Arts. Speech/Communication may not substitute for the literature requirement.**

Application to a University

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate in science degree, students who meet the requirements outlined in this pre-major articulation agreement will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree:

Biology: ASU, ECU, ECSU, FSU, NCA&T, NCCU, NCSU, UNC-A, UNC-CH, UNC-C, UNC-G, UNC-P, UNC-W, WCU, WSSU

Biology Education, Secondary Education: ASU, ECSU, FSU, NCA&T, NCCU, UNC-A*, UNC-P, UNC-W, WCU

*Certification for Grades K-4; Middle Grades (4-6); Grades 6-9; Secondary Level.

Admission to the Major

Grade point average requirements vary and admission is competitive across the several programs in Biology and Biology Education. Admission to teacher licensure programs requires satisfactory scores on PRAXIS I and II.