

Computer Science (A1010T) Associate in Arts Pre-Major

Under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement, 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 Computer Science. Students who successfully complete this course of study and who meet the requirements for admission to the university are 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.

Students entering the Computer Science Associate in Arts Pre-major Program must demonstrate competency in or complete the prerequisites required for MAT 271, Calculus I.

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 Arts 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.
One of the following courses is required to satisfy the second English composition requirement:
ENG 112 Argument-Based Research (3 SHC) *or*
ENG 113 Literature-Based Research (3 SHC)
(ENG 113 is recommended to satisfy this requirement.)

Humanities/Fine Arts (12 SHC)** *Four courses from three discipline areas are required.*
One course must be a literature course.
Three additional courses from the following discipline areas are required: art, drama, dance, foreign languages, interdisciplinary humanities, literature, music, philosophy, and religion.

Social/Behavioral Sciences (12 SHC) *Four courses from three discipline areas are required.*
One course must be a history course.
Three additional courses from the following discipline areas are required: anthropology, economics, geography, history, political science, psychology, and sociology.

Natural Sciences/Mathematics (16 SHC)
Natural Sciences (8 SHC): The following courses are required:
PHY 251 General Physics I (4 SHC)
PHY 252 General Physics II (4 SHC)
Mathematics (8 SHC): The following courses are required:
MAT 271 Calculus I (4 SHC)
MAT 272 Calculus II (4 SHC)

A college may award a diploma under the A1010T for completion of the entire general education core, as outlined, with a grade of "C" or better in each course.

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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.

The following courses are required (11 SHC):

CSC 120	Computing Fundamentals I (4 SHC)
CSC 130	Computing Fundamentals II (4 SHC)
MAT 167	Discrete Mathematics (3 SHC)

Seven (7) additional hours of approved college transfer courses are required to total 64 SHC of transferable courses. The following courses are recommended:

CSC 220	Machine Implem of Algor (4 SHC)
BIO 111	General Biology I (4 SHC) <i>or</i>
CHM 151	General Chemistry I (4 SHC) <i>or</i>
MAT 280	Linear Algebra (3 SHC)

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 senior institution to which they plan to transfer. Upon successful completion of the associate 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 signatory institutions offering the baccalaureate degree as listed at www.northcarolina.edu/content.php/aa/planning/traditional.htm or in the NC Independent Colleges and Universities Handbook which is available online at www.ncicu.org/publications. Students are encouraged to contact the senior institution to confirm degree offerings.

Admission to the Major

*Grade point average requirements vary, and admission is competitive across the several programs in Computer Science. Computer Science is a rapidly developing field; curriculum requirements change frequently and vary among the programs and tracks at different universities. In choosing courses to meet both general education core requirements and other required hours, students should seek advice based on the program and track into which they desire to transfer. Students **must** be proficient in the programming language(s) and programming environment(s) used at the receiving institution.*

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