

**COMPREHENSIVE ARTICULATION AGREEMENT
BETWEEN THE UNIVERSITY OF NORTH CAROLINA
AND THE NORTH CAROLINA COMMUNITY COLLEGE SYSTEM**

**Approved by the Board of Governors of The University of North Carolina and
the State Board of the North Carolina Community College System**

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(revised)**

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This document, complete with appendices, is available at www.ga.unc.edu/student_info/caa.

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Comprehensive Articulation Agreement Between the University of North Carolina and the North Carolina Community College System

I. Purpose

The purpose of this document is to report on the implementation of the provisions of House Bill 739 and Senate Bill 1161 (1995 Session of the General Assembly). Section 1 of HB739 instructed the Board of Governors of the University of North Carolina and the State Board of Community Colleges to develop a plan for the transfer of credits between the institutions of the North Carolina Community College System and between them and the University of North Carolina. Section 3 of HB739 instructed the State Board of Community Colleges to implement common course descriptions for all community college programs by June 1, 1997. Section 1 of SB1161 directed the University of North Carolina Board of Governors and the State Board of Community Colleges to develop a plan that ensures accurate and accessible academic counseling for students considering transfer between community colleges and between community colleges and the constituent institutions of the University of North Carolina. Section 2 of SB1161 required the two boards to establish a timetable for the development of guidelines and transfer agreements for program majors, professional specialization, and associate in applied science degrees. Section 3 of SB1161 directed the State Board of Community Colleges to review its policies and rules and make any changes that are necessary to implement the plan for the transfer of credits.

The provisions of the legislation are consistent with the strategic directions adopted by the University of North Carolina Board of Governors, the first of which is to "expand access to higher education for both traditional and non-traditional students through...uniform policies for the transfer of credit from community colleges to constituent institutions...development of electronic information systems on transfer policies, off-campus instruction, and distance education...[and] increased collaboration with other education sectors...." Similarly, the State Board of Community Colleges has established the education continuum as one of seven critical success factors used to measure the performance of programs consistent with the work force development mission of the North Carolina Community College System. College level academic courses and programs have been a part of the mission and programming of the North Carolina Community College System from its inception in 1963.

The Board of Governors and the State Board of Community Colleges are committed to simplifying further the transfer of credits for students and thus facilitating their educational progress as they pursue associate or baccalaureate degrees within and among public post-secondary institutions in North Carolina.

II. Background and Procedures

The two boards approved a "Proposed Plan to Further Simplify and Facilitate Transfer of Credit Between Institutions" at their meetings in February 1996. This plan was submitted as a preliminary report to the Joint Legislative Education Oversight Committee in March 1996. Since that time, significant steps have been taken toward implementation of the transfer plan. At their April 1996 meetings, the boards appointed their respective sector representatives to the Transfer Advisory Committee to direct, coordinate, and monitor the implementation of the proposed transfer plan. (The Transfer Advisory Committee membership is listed in Appendix A.)

Basic to the work of the Transfer Advisory Committee in refining transfer policies and implementing the transfer plan has been the re-engineering project accomplished by the North Carolina Community College System, especially common course names, numbers, credits, and descriptions. The Community College Common Course Library includes approximately 3,800 semester-credit courses written for the associate degree, diploma, and certificate programs offered in the system. Colleges select courses from the Common Course Library to design all curriculum programs.

Of approximately 700 arts and sciences courses within the Common Course Library, the faculty and administrators of the community colleges recommended approximately 170 courses as appropriate for the general education transfer core. The Transfer Advisory Committee then convened a meeting on May 28, 1996, at which six University of North Carolina faculty in each of ten general education discipline areas met with six of their professional counterparts from the community colleges. Through a very useful and collegial dialog, these committees were able to reach consensus on which community college courses in each discipline were acceptable for transfer to University of North Carolina institutions as a part of the general education core. This list of courses was distributed to all University of North Carolina and community college institutions for their review and comments. Considering the recommendations of the general education discipline committees and the comments from the campuses, the Transfer Advisory Committee established the list of courses which constitutes the general education transfer core. This general education core, if completed successfully by a community college student, is portable and transferable as a block across the community college system and to all University of North Carolina institutions.

With the establishment of the general education transfer core as a foundation, joint academic disciplinary committees were appointed to draw up guidelines for community college curricula that will prepare students for intended majors at University of North Carolina institutions. Each committee consisted of representatives from each UNC institution offering such major programs and eight to ten representatives from community colleges. The Transfer Advisory Committee distributed the pre-major agreements recommended by the faculty committees to all University of North Carolina and community college institutions for their review and comments. Considering the faculty committee recommendations and the campus comments, the Transfer Advisory

Committee established transfer articulation agreements for majors which have significant transfer traffic from the community colleges to University of North Carolina institutions.

The special circumstances surrounding transfer agreements for associate in applied science programs, which are not designed for transfer, require bilateral rather than statewide articulation. Special circumstances include the different accreditation criteria for faculty in transfer and non-transfer programs, the different general education requirements for transfer and non-transfer programs, and the workforce preparedness mission of the technical/community college AAS programs.

A major element in the proposed transfer plan adopted by the two boards in February 1996 is the transfer information system. Simultaneously with the work being done on the general education and professional specialization (major) components of the transfer curriculum, the joint committee on the transfer information system laid out a plan, approved by the boards of the University of North Carolina and the North Carolina Community College System, "to provide students with accurate and understandable information regarding the transfer of credits...[and] to increase the adequacy and availability of academic counseling for students who are considering a college transfer program." In addition to the printed publications currently being distributed to students, transfer counselors, admissions directors, and others, an electronic information network provides (1) electronic access to the articulation database which will include current transfer policies, guidelines, and on-line catalogs for public post-secondary institutions; (2) computerized common application forms, which can be completed and transmitted electronically along with transcripts and other education records; and (3) an electronic mail network for transfer counselors and prospective transfer students. Access to the e-mail network is available in the transfer counselors' offices and other selected sites on campuses.

The final element of the transfer information system is the Transfer Student Academic Performance Report. This report, recently refined with suggestions from community college administrators, is sent annually to each community college and to the State Board of Community Colleges. These data permit the rational analysis of transfer issues and are beneficial to students and to educational and governmental decision-makers. This performance report provides the important assessment component necessary for evaluating and improving the transfer process.

III. Comprehensive Articulation Agreement

The Comprehensive Articulation Agreement between the University of North Carolina and the North Carolina Community College System rests upon several assumptions common to successful statewide comprehensive articulation agreements. The primary assumption is that institutions recognize the professional integrity of other public post-secondary institutions, which are regionally accredited for college transfer programs. All courses designated as approved for college transfer under this agreement will be taught by faculty who meet Southern Association of Colleges and Schools (SACS) Commission

on Colleges credential requirements. A secondary assumption is that there is sufficient commonality in the lower-division general education requirements currently offered among all universities to develop a common general education component at the community colleges for the purpose of transfer. The general education transfer core is similar to each institution's lower-division general education requirements, but is not identical in that specific courses may differ. The underlying concept is that competencies and understandings developed by general education programs as a whole are more important than individual courses. Therefore, the block transfer of a core is important. The general education requirements of the receiving institutions remain in effect for all students not participating in this comprehensive articulation agreement; any upper-division general education requirements and graduation requirements remain unaffected by this plan. Institution-wide, lower-division general education requirements serve as the starting point for determining specific general education courses in each baccalaureate major. The specific lower level courses required for each major are the subject of the pre-major transfer articulation agreements developed by joint discipline committees.

The Comprehensive Articulation Agreement (CAA) addresses the transfer of credits between institutions in the North Carolina Community College System and from that system to constituent institutions of the University of North Carolina. It does not address admission to an institution nor to a specific major within an institution. The CAA was developed jointly by faculty and administrators of the North Carolina Community College System and the University of North Carolina based on the proposed transfer plan approved by both governing boards in February 1996. The CAA applies to all North Carolina community colleges and all constituent institutions of the University of North Carolina. The components described below are included in the CAA.

Transfer in associate in arts and associate in science degree programs in the community college system

- The CAA enables North Carolina community college graduates of two-year associate in arts and associate in science degree programs who are admitted to constituent institutions of the University of North Carolina to transfer with junior status.
- Universities cannot place requirements on students transferring under the CAA which are not required of their native students.
- Transfer students will be considered to have satisfied the UNC Minimum Course Requirements (MCR) in effect at the time of their graduation from high school if they have:
 1. received the associate in arts, the associate in science, the associate in fine arts, the baccalaureate or any higher degree, or,
 2. completed the 44 hour CAA general education transfer core, or
 3. completed at least six (6) semester hours in degree-credit in each of the following subjects: English, mathematics, the natural sciences, and social and behavioral sciences, and (for students who graduate from high school in 2003-04 and beyond) a second language.

- Community college students who have completed the general education transfer core (outlined below) will be considered to have fulfilled the institution-wide, lower division general education requirements of the receiving institution.
- To be eligible for inclusion in this policy, a student must have an overall GPA of at least a 2.0 on a 4.0 scale and a grade of "C" or better in all CAA courses.
- Community college graduates of these programs who have earned 64 semester hours in approved transfer courses with a grade of "C" or better and an overall GPA of at least 2.0 on a 4.0 scale will receive at least 64 semester hours of academic credit upon admission to a university. Under special circumstances, a university may choose to accept additional credit hours.
- The CAA does not guarantee admission to a university; admission to a university does not constitute admission to a professional school or a specific program.
- Requirements for admission to some major programs may require additional pre-specialty courses beyond the general education transfer core courses taken at the community college. Students entering such programs may need more than two academic years of course work to complete the baccalaureate degree, depending on requirements of the program.
- All courses approved for transfer in the Comprehensive Articulation Agreement are designated as fulfilling general education, pre-major or elective (See Appendix E.) requirements. While general education and pre-major courses may also be used as electives, elective courses may not be used to fulfill general education requirements.

General education transfer core (44 semester hours credit)

The associate in arts and associate in science degree programs in the NC Community College System require a total of 64-65 semester hours credit for graduation. (See Appendix C.)

Within the overall total, the community college system and the university have developed a general education core transfer component. This curriculum reflects the distribution of discipline areas commonly included in institution-wide, lower division general education requirements for the baccalaureate degree. The general education transfer core includes study in the areas of humanities and fine arts, social and behavioral sciences, natural sciences and mathematics, and English composition. Within the core, community colleges must include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and the basic use of computers. 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. The semester hours credit (SHC) distribution of the general education core by area is as follows:

English Composition (6 Semester Hours Credit)

Humanities/Fine Arts (9-12) Semester Hours Credit)

Four courses are to be selected from at least three of the following discipline areas: music, art, drama, dance, French, German, Italian, Russian, Spanish, interdisciplinary humanities, literature, philosophy, and religion. At least one course must be a literature course. (3 SHC in Speech/Communication may be substituted for 3 SHC in Humanities/Fine Arts. Speech/Communication may not substitute for the literature requirement.)

Social/Behavioral Sciences (9-12) Semester Hours Credit)

Four courses must be selected from at least three of the following discipline areas: anthropology, economics, geography, history, political science, psychology, and sociology. At least one course must be a history course.

Natural Sciences/Mathematics (14-20) Semester Hours Credit)

Natural Sciences (8 SHC): Two courses, including accompanying laboratory work, must be selected from among the biological and physical science disciplines.

Mathematics (6 SHC): At least one introductory mathematics course (college algebra, trigonometry, calculus, etc.) must be selected; the other unit may be selected from among other quantitative subjects, such as computer science and statistics.

The specific courses used to fulfill the requirement in each of these areas will be identified by each community college as meeting its own general education requirements. The courses will be drawn from those courses designated in the NC Community College Common Course Library as being appropriate as part of a general education core transfer curriculum. This will preserve the autonomy of each community college to develop its own general education program, including those aspects that make its program unique.

The general education core transfer component, if completed successfully by a student with a grade of "C" or better in each course, shall be portable and transferable as a block across the NC Community College System and from that system to UNC institutions, whether or not the transferring student has earned the associate degree.

Transfer of general education core courses for non-graduates

Upon admission to another public two-year institution or to a constituent institution of the University of North Carolina, students who have completed the general education core with the proper distribution of hours, but who have not completed the associate degree, will be considered to have fulfilled the institution-wide, lower-division general education requirements of the receiving institution. To be eligible for inclusion in this policy, a student must have an overall Grade Point Average (GPA) of 2.0 on a 4.0 scale at the time of transfer and a grade of "C" or better in all core courses. Upon transfer at the sophomore level, a non-graduate who has completed the general education core should be advised at the University to take pre-major or cognate courses based on his or her chosen major.

The transcripts of students who transfer before completing the general education core will be evaluated on a course-by-course basis by the receiving universities. The transferring student who has not completed the core must meet the receiving institution's general education requirement.

Guidelines and transfer agreements for major or professional specialty courses

Beyond the general education courses offered as the transfer core component, a program of study leading to the associate degree contains courses related to a student's major or program emphasis. Joint academic disciplinary committees developed system-wide guidelines for community college curricula that will prepare students for intended majors or professional specializations at the baccalaureate level. Statewide pre-major articulation agreements for AA and AS degree programs have been developed for specific major fields (See Appendix C.).

Statewide pre-major articulation agreements for AFA degree programs have been developed for specific major fields. If a pre-major articulation agreement requires or recommends 64-65 SHC, then it becomes incumbent upon the community college to make appropriate adjustments in its local graduation requirements.

Transfer of Associate in Fine Arts degree course credits

Upon admission to another public two-year institution or to a public university, a community college student who was enrolled in an associate in fine arts degree program and who satisfactorily completed with a grade of "C" or better all courses that are designated for college transfer (general education, elective, or pre-major) will receive credit for those courses. The receiving institution will determine whether the course will count as general education, major, or elective credit. Because the AFA curriculum standard includes only 28 SHC for general education (See Appendix D.), AFA students who transfer must meet the general education requirements of the receiving institution. Pre-major agreements for AFA degrees are presented in Appendix D.

Transfer of Associate in Applied Science degree course credit

Upon admission to another public two-year institution or to a public university, a community college student who was enrolled in an associate in applied science degree program and who satisfactorily completed with a grade of "C" or better all courses that are designated for college transfer (general education, elective, or pre-major) will receive credit for those courses.

Articulation of associate in applied science (AAS) degree programs will be handled on a bilateral articulation agreement basis rather than on a statewide basis. Under bilateral agreements, individual universities and one or more community colleges may join in a collaborative effort to facilitate the transfer of students from AAS degree programs to baccalaureate degree programs. The Transfer Advisory Committee will maintain a

current inventory of bilateral articulation agreements for AAS degree programs. These agreements will serve as models to encourage the development of new articulation agreements among institutions.

Transfer of courses not originated at NC community colleges

Courses which do not originate at the community college and which are not listed on the approved college transfer course lists will be evaluated on an individual basis by the receiving university. Transfer credit may or may not be granted for these courses, according to the policies of the receiving institution. Transfer credit for courses that originate at a UNC institution or independent college or university that is part of the CAA are acceptable as part of a student's successfully completed 44 semester hour general education core under the CAA.

Advanced Placement course credits, awarded for a score of three or higher, are acceptable as part of a student's successfully completed 44 semester hour general education core under the CAA. Credit for two successive courses can only be awarded with a score of five. Transferred-in courses from institutions other than NC Community Colleges are not a part of this agreement. Students who receive AP course credit at a community college but do not complete the general education core will have AP credit awarded on the basis of the receiving institution's AP policy.

All College Level Examination Program (CLEP) credit will be evaluated on the basis of the receiving institution's policy.

Impact of the CAA on articulation agreements in effect prior to Fall 1997

Effective Fall 1997, the North Carolina Comprehensive Articulation Agreement (CAA) took precedence over bilateral articulation agreements established between constituent institutions of the University of North Carolina and the North Carolina Community College System but does not necessarily preclude such agreements. Institution-to-institution articulation agreements which fall within the parameters of the CAA and enhance transferability of students from community colleges to senior institutions are encouraged. Institutional articulation agreements conflicting with the CAA are not permitted.

Impact of the CAA on students in the transitional period

Students who enrolled in community college associate in arts or associate in science degree programs in Fall 1997 entered under the CAA. Students who were enrolled prior to Fall 1997 took the individual college's courses, which were on course equivalency lists agreed upon by a university and the college or which were approved for transfer in an existing articulation agreement. Existing institutional articulation agreements may remain in effect until Fall 1999. Or, the student's transcript can be evaluated on a course equivalency basis, except for those courses which the student took during or after Fall 1997 and which are approved for transfer under the CAA; any course the student has

taken which is approved for transfer will be guaranteed to transfer if the student is admitted to a University of North Carolina institution.

CAA Amendment and Appeals Process Questions about the transferability of course work under the Comprehensive Articulation Agreement (CAA) or any proposed changes to CAA policies, the general education core, or pre-major articulation agreements must be addressed by the Transfer Advisory Committee. Changes to curriculum standards for the associate in arts, associate in science, and the associate in fine arts degree programs require the approval of the governing boards of both systems. Because articulation between the North Carolina Community College System and the University of North Carolina is a dynamic process, occasional modifications to the CAA may be necessary. These modifications may include the addition, deletion, and modification of courses on the transfer list, addition and revision of pre-major articulation agreements, and changes in designation as general education core or electives. The TAC will receive requests for modification only upon the recommendation of the chief academic officer of the NCCCS or the UNC. Additions, deletions, and modifications may be subject to faculty review under the direction of the Transfer Advisory Committee. (See Appendix F.) Because the modification process involves faculty and administrative review, this process may require up to 12 months for final action.

Course work detailed under the CAA general education core curriculum or under approved pre-major agreements as well as approved electives will be accepted as agreed upon. Questions arising over the use of electives in meeting institution-specific graduation requirements may be appealed to the chief academic officer of the receiving institution.

Authority to interpret CAA policy rests with the Transfer Advisory Committee. Questions concerning CAA policy interpretations should be directed to the appropriate system's chief academic officer with an explanation of the institutional policy which may (appear to) be in conflict with CAA policy. Unresolved questions will be forwarded by the chief academic officer to the Transfer Advisory Committee for interpretation.

IV. Transfer Information System

A Transfer Information System sub-committee was established by the co-chairs of the Transfer Advisory Committee to determine the status of the appropriate technologies to facilitate the electronic transfer of information, academic records, and admissions applications between NC community colleges and UNC institutions and to recommend a timeline and appropriate resources needed to ensure a fully operational system to facilitate the transfer of students between and among the two systems. The following items are in priority order.

E-mail network accessible to transfer counselors and students

All UNC and community college campuses currently have Internet connectivity and e-mail capability. The sub-committee recommends that all campuses begin publishing the appropriate admissions/college transfer coordinator e-mail address in all admissions and recruitment information. The Joint Committee on College Transfer will also include e-mail addresses in the annually updated transfer counselor network, which identifies a transfer contact on each UNC and community college campus. The UNC General Administration and the North Carolina Community College System central office will ensure full participation by all campuses.

Computerized articulation database including current transfer policies and guidelines

The current “Policies of Senior Colleges and Universities Concerning Transfer Students From Two-Year Colleges in North Carolina” is available on the World Wide Web as well as widely distributed in hard copy. The information is updated annually. The comprehensive transfer articulation agreement between the NC Community College System and the University of North Carolina, including the pre-major agreements, general education and elective course lists, and basic transfer policies, is on the web site at http://www.ga.unc.edu/student_info/caa/. In addition, thousands of copies of the printed brochure, College Transfer Guide for Students, have been distributed.

On-line catalogs for public post secondary institutions

UNC and community college catalogs are available on the Internet. The existing UNC and NC Community College System World Wide Web sites are linked to allow interested individuals to access information between the two systems quickly and easily.

Transfer Student Academic Performance Report

The community college transfer student performance report has been produced for several years and circulated widely between and among the UNC campuses and the community colleges. This useful tool has been revised to include comparative data with UNC campuses’ native students. This information is also on the UNC World Wide Web home page and linked to the NC Community College System home page.

Computerized common transfer applications which can be transmitted electronically

Common admissions applications have been developed for UNC and NCCCS institutions and are available on the World Wide Web at their respective web sites.

Appendix A
University of North Carolina and North Carolina Community College System
Comprehensive Articulation Agreement
Transfer Advisory Committee

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Appendix B

**Members of the
NC Independent Colleges and Universities That Endorse the
Comprehensive Articulation Agreement**

**Barton College
Belmont Abbey College
Bennett College
Brevard College
Campbell University
Catawba College
Chowan College
Gardner-Webb University
Johnson C. Smith University
Livingstone College
Louisburg College
Mars Hill College
Montreat College
Mount Olive College
North Carolina Wesleyan College
Pfeiffer University
Queens University of Charlotte
St. Andrews Presbyterian College
Saint Augustine's College
Shaw University
Warren Wilson College
Wingate University**

Appendix C

Associate in Arts and Associate in Science Pre-Major Articulation Agreements

Associate in Arts (A10100)

| | |
|-----------|--|
| A 10 10 A | Art Education |
| A 10 10 B | Business Administration |
| A 10 10 C | Business Education and Marketing Education |
| A 10 10 R | Computer Science |
| A 10 10 D | Criminal Justice |
| A 10 10 R | Elementary Education |
| A 10 10 E | English |
| A 10 10 F | English Education |
| A 10 10 G | Health Education |
| A 10 10 H | History |
| A 10 10 S | Middle Grades Education and Special Education |
| A 10 10 I | Nursing |
| A 10 10 J | Physical Education |
| A 10 10 K | Political Science |
| A 10 10 L | Psychology |
| A 10 10 M | Social Science Secondary Education |
| A 10 10 Q | Social Work |
| A 10 10 N | Sociology |
| A 10 10 O | Speech Communication |

Associate in Science (A10400)

| | |
|-----------|--------------------------------------|
| A 10 40 A | Biology and Biology Education |
| A 10 40 B | Chemistry and Chemistry Education |
| A 10 40 D | Engineering |
| A 10 40 E | Mathematics |
| A 10 40 F | Mathematics Education |

**CURRICULUM STANDARD
ASSOCIATE IN ARTS [A10100] PROGRAM**

The Associate in Arts degree shall be granted for a planned program of study consisting of a minimum of 64 and a maximum of 65 semester hours of college transfer course. (Ref. 23 NCAC 2E.0204) Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and the basic use of computers.

Courses are approved for transfer through the Comprehensive Articulation Agreement. Community college graduates who have earned 64 semester hours of academic credit in approved transfer courses with a grade of "C" or better in each course and an overall GPA of at least 2.0 on a 4.0 scale will receive at least 64 semester hours of academic credit upon admission to a university. Courses may also transfer through bilateral agreements between institutions. Courses offered through bilateral agreements may not transfer to all receiving institutions.

GENERAL EDUCATION CORE (44 SHC)*

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)

Humanities/Fine Arts (12 SHC)**

Four courses from at least **three** of the following discipline areas are required: music, art, drama, dance, foreign languages, interdisciplinary humanities, literature, philosophy, and religion. **At least one course must be a literature course.**

Social/Behavioral Sciences (12 SHC)

Four courses from at least **three** of the following discipline areas are required: anthropology, economics, geography, history, political science, psychology, and sociology. **At least one course must be a history course.**

Natural Sciences/Mathematics (14 SHC)

Natural Sciences (8 SHC):

Two courses, including accompanying laboratory work, from the biological and physical science disciplines are required.

Mathematics (6 SHC):

At least one course in introductory mathematics is required; the other course may be selected from among other quantitative subjects, such as computer science and statistics.

OTHER REQUIRED HOURS (20-21 SHC)*

One semester hour of credit may be included in a sixty-five semester hour credit associate in arts program. The transfer of the sixty-fifth hour is not guaranteed. A minimum of 20 SHC of college transfer general education, elective, and/or pre-major courses is required.

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.**

Associate in Science (A10400)

The Associate in Science degree shall be granted for planned programs of study consisting of a minimum of 64 and a maximum of 65 semester hours of college transfer courses. Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and the basic use of computers. (Ref. 23 NCAC 2E.0204)

Courses are approved for transfer through the Comprehensive Articulation Agreement. Community college graduates who have earned 64 semester hours of academic credit in approved transfer courses with a grade of "C" or better in each course and an overall GPA of at least 2.0 on a 4.0 scale will receive at least 64 semester hours of academic credit upon admission to a university. Courses may also transfer through bilateral agreements between institutions. Courses offered through bilateral agreements may not transfer to all receiving institutions.

GENERAL EDUCATION CORE (44 SHC)*

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.*

ENG 111 Expository Writing (3 SHC) is required as the first composition course.

The second composition course must be selected from the following:

- ENG 112 Argument-Based Research (3 SHC) *or*
- ENG 113 Literature-Based Research (3 SHC) *or*
- ENG 114 Professional Research and Reporting (3 SHC)

Humanities/Fine Arts (9 SHC)** *Three courses from three discipline areas are required.*

One course must be a literature course.

Two additional courses from two of 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 two of the following discipline areas are required: anthropology, economics, geography, political science, psychology, and sociology.

Natural Sciences/Mathematics: (20 SHC)

Natural Sciences (8 SHC minimum):

A minimum two-course sequence from the following general biology, general chemistry, or general physics courses is required:

- BIO 111 General Biology I (4 SHC) and BIO 112 General Biology II (4 SHC) *or*
- CHM 151 General Chemistry I (4 SHC) and CHM 152 General Chemistry II (4 SHC) *or*
- PHY 151 College Physics I (4 SHC) and PHY 152 College Physics II (4 SHC) *or*
- PHY 251 General Physics I (4 SHC) and PHY 252 General Physics II (4 SHC)

Mathematics (6 SHC minimum):

One course in mathematics at the precalculus algebra level or above is required; the other course(s) may be higher level mathematics or may be selected from among other quantitative subjects, such as computer science and statistics.

Six additional semester hour credits must be selected from courses designated as Natural Sciences/Mathematics general education transfer courses.

Other Required Hours (20-21 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 14 SHC of college transfer courses in mathematics, natural sciences or computer science is required. The remaining courses may be selected from general education, pre-major or elective courses.

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.**

Pre-Major Associate in Arts Articulation Agreement: Art Education (A1010A)

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

General Education Core (44 SHC)* Forty-four 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.
- The second composition course must be selected from the following:
 - ENG 112 Argument-Based Research (3 SHC)
 - ENG 113 Literature-Based Research (3 SHC)
 - ENG 114 Professional Research and Reporting (3 SHC)

Humanities/Fine Arts (12 SHC)** *Four courses from three discipline areas are required.*

- One course must be a literature course.
- The following courses are required (6 SHC):
 - ART 114 Art History Survey I (3 SHC)
 - ART 115 Art History Survey II (3 SHC)
- One additional course from the following discipline areas is required: music, drama, dance, foreign languages, interdisciplinary humanities, 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 (14 SHC)

Natural Sciences (8 SHC): Two courses from the biological and physical science disciplines, including accompanying laboratory work, are required.

Mathematics (6 SHC): Two courses are required.

- One course must be in introductory mathematics (college algebra, trigonometry, calculus, etc.).
- The second course may be a higher level mathematics course or may be selected from among other quantitative subjects, such as computer science (CIS) and statistics (MAT).

Other Required Hours (20-21 SHC)* One semester hour of credit may be included in a sixty-five semester hour credit associate in arts program. The transfer of the 65th hour is not guaranteed.

- The following courses are required (9 SHC):
 - ART 121 Design I (3 SHC)
 - ART 122 Design II (3 SHC)
 - ART 131 Drawing I (3 SHC)
- 11 additional hours of approved college transfer courses are required.
 - To satisfy this requirement, two of the following courses are recommended:
 - ART 132 Drawing II (3 SHC)
 - ART 171 Computer Art I (3 SHC)
 - ART 231 Printmaking I (3 SHC)
 - ART 240 Painting I (3 SHC)
 - ART 283 Ceramics I (3 SHC)
 - ART 116 Survey of Amer Art (3 SHC) *or* ART 117 Non-West Art History (3 SHC)
 - ART 247 Jewelry I (3 SHC) *or* ART 245 Metals I (3 SHC)
 - ART 251 Weaving I (3 SHC) *or* ART 250 Surface Design: Textiles (3 SHC)
 - ART 261 Photography I (3 SHC) *or* ART 266 Videography I (3 SHC) *or*
ART 264 Digital Photography I (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 university to which they plan to transfer. Upon successful completion of the associate in arts degree, students who meet the requirements outlined in this pre-major articulation agreement for Art Education will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree: ASU, ECU, ECSU, FSU, NCA&T, NCCU, UNC-A, UNC-C, UNC-G, UNC-P, WCU, WSSU.

Admission to the Major

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

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.

Pre-Major Associate in Arts Articulation Agreement: Business Administration (A1010B)

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

General Education Core (44 SHC)* Forty-four 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.
- The second composition course must be selected from the following:

| | |
|---------|---|
| ENG 112 | Argument-Based Research (3 SHC) |
| ENG 113 | Literature-Based Research (3 SHC) |
| ENG 114 | Professional Research and Reporting (3 SHC) |

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: music, art, drama, dance, foreign languages, interdisciplinary humanities, literature, philosophy, and religion.

Social/Behavioral Sciences (12 SHC) *Four courses from three discipline areas are required.*

- One course must be a history course
- The following course is required (3 SHC):

| | |
|---------|--------------------------------------|
| ECO 251 | Principles of Microeconomics (3 SHC) |
|---------|--------------------------------------|
- Two additional courses from the following discipline areas are required: anthropology, economics, geography, history, political science, psychology, and sociology.
The following courses are recommended:

| | |
|---------|-----------------------------------|
| POL 120 | American Government (3 SHC) |
| PSY 150 | General Psychology (3 SHC) |
| SOC 210 | Introduction to Sociology (3 SHC) |

Natural Sciences/Mathematics (14-16 SHC)

Natural Sciences (8 SHC): Two courses from the biological and physical science disciplines, including accompanying laboratory work, are required.

Mathematics (6-8 SHC):

- The following courses are required:
choose one:

| | |
|---------|--|
| MAT 161 | College Algebra (3 SHC) <i>or</i> |
| MAT 171 | Pre-calculus Algebra (3 SHC) <i>or</i> |
| MAT 175 | Pre-calculus (4 SHC) |

choose one:

| | |
|---------|----------------------------------|
| MAT 263 | Brief Calculus (3 SHC) <i>or</i> |
| MAT 271 | Calculus I (4 SHC) |

Other Required Hours (20 SHC)* One semester hour of credit may be included in a sixty-five

semester hour credit associate in arts program. The transfer of the 65th hour is not guaranteed.

- The following courses are required (14 SHC):
 - ACC 120 Principles of Financial Accounting (4 SHC)
 - ACC 121 Principles of Managerial Accounting (4 SHC)
 - CIS 110 Introduction to Computers (3 SHC)
 - ECO 252 Principles of Macroeconomics (3 SHC)
- One of the following is required (3 SHC):
 - BUS 228 Business Statistics (3 SHC) *or*
 - MAT 151 Statistics I (3 SHC) *or*
 - MAT 155 Statistical Analysis (3 SHC)
- Three additional hours of approved college transfer courses are required.

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 arts degree, students who meet the requirements outlined in this pre-major articulation agreement for Business Administration will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree: ASU, ECU, ECSU, FSU, NCA&T, NCCU, NCSU, UNC-A, UNC-CH, UNC-C, UNC-G, UNC-P, UNC-W, WCU, WSSU.

Admission to the Major

Grade point average requirements vary and admission is competitive across the several programs in Business Administration.

**Pre-Major Associate in Arts Articulation Agreement:
Business Education and Marketing Education (A1010C)**

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

| |
|---|
| <p>General Education Core (44 SHC)* Forty-four 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.</p> |
| <p>English Composition (6 SHC) <i>Two English composition courses are required.</i></p> <ul style="list-style-type: none">• English 111, Expository Writing, is required as the first composition course.• The second composition course must be selected from the following:<ul style="list-style-type: none">ENG 112 Argument-Based Research (3 SHC)ENG 113 Literature-Based Research (3 SHC)ENG 114 Professional Research and Reporting (3 SHC) |
| <p>Humanities/Fine Arts (12 SHC**) <i>Four courses from three discipline areas are required.</i></p> <ul style="list-style-type: none">• One course must be a literature course.• Three additional courses from the following discipline areas are required: music, art, drama, dance, foreign languages, interdisciplinary humanities, literature, philosophy, and religion. |
| <p>Social/Behavioral Sciences (12 SHC) <i>Four courses from three discipline areas are required.</i></p> <ul style="list-style-type: none">• One course must be a history course.• The following course is required:<ul style="list-style-type: none">ECO 251 Principles of Microeconomics (3 SHC)• Two courses from the following discipline areas are required, to include at least one additional discipline: anthropology, economics, geography, history, political science, psychology, and sociology. The following courses are recommended:<ul style="list-style-type: none">PSY 150 General Psychology (3 SHC)SOC 210 Introduction to Sociology (3 SHC) |
| <p>Natural Sciences/Mathematics (14-15 SHC)</p> <p><i>Natural Sciences (8 SHC):</i> Two courses from the biological and physical science disciplines, including accompanying laboratory work, are required.</p> <p><i>Mathematics (6-7 SHC):</i></p> <ul style="list-style-type: none">• The following course is required:<ul style="list-style-type: none">CIS 110 Introduction to Computers (3 SHC)• One of the following courses is required:<ul style="list-style-type: none">MAT 161 College Algebra (3 SHC) <i>or</i>MAT 171 Precalculus Algebra (3 SHC) <i>or</i>MAT 175 Precalculus (4 SHC) |

Other Required Hours (19-21 SHC)* One semester hour of credit may be included in a sixty-five semester hour credit associate in arts program. The transfer of the 65th hour is not guaranteed.

- The following courses are required (7 SHC):
 - ACC 120 Principles of Financial Accounting (4 SHC)
 - ECO 252 Principles of Macroeconomics (3 SHC)
- One of the following courses is required (3 SHC):
 - CIS 115 Introduction to Programming & Logic (3 SHC)
 - CSC 134 C++ Programming (3 SHC)
 - CSC 148 JAVA Programming (3 SHC) *or*
other programming language
- 9-10 additional hours of approved college transfer courses are required to total 64 SHC of transferable courses.

Three of the following courses are recommended (select three):

- ACC 121 Principles of Managerial Accounting (4 SHC)
- BUS 110 Introduction to Business (3 SHC)
- BUS 115 Business Law I (3 SHC)
- BUS 228 Bus Stat (3 SHC) *or* MAT 151 Stat I (3 SHC) *or*
MAT 155 Stat Analysis (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 university to which they plan to transfer. Upon successful completion of the associate in arts 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:

Business Education: ASU, ECU, ECSU, FSU, NCA&T, NCSU, UNC-G, WCU

Marketing Education: ASU, ECU, FSU, NCA&T, NCCU, NCSU, UNC-A, UNC-C, UNC-G, UNC-W, WCU

Admission to the Major

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

**Pre-Major Associate in Science Articulation Agreement:
Chemistry and Chemistry Education (A1040B)**

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 Chemistry and Chemistry 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.

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

| | | | | | | |
|--|-------------------------------------|-------------------------|---------|---------------------------|---------|-------------------------------------|
| <p>General Education Core (44 SHC)* Forty-four 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.</p> | | | | | | |
| <p>English Composition (6 SHC) <i>Two English composition courses are required.</i> English 111, Expository Writing, is required as the first composition course. The second composition course must be selected from the following:</p> <table><tr><td>ENG 112</td><td>Argument-Based Research</td></tr><tr><td>ENG 113</td><td>Literature-Based Research</td></tr><tr><td>ENG 114</td><td>Professional Research and Reporting</td></tr></table> | ENG 112 | Argument-Based Research | ENG 113 | Literature-Based Research | ENG 114 | Professional Research and Reporting |
| ENG 112 | Argument-Based Research | | | | | |
| ENG 113 | Literature-Based Research | | | | | |
| ENG 114 | Professional Research and Reporting | | | | | |
| <p>Humanities/Fine Arts (9 SHC) <i>Three courses from three discipline areas are required.</i> The following course is required: COM 231 Public Speaking (3 SHC) One course must be a literature course. One additional course from the following discipline areas is required: art, drama, dance, foreign languages, interdisciplinary humanities, music, philosophy, and religion.</p> | | | | | | |
| <p>Social/Behavioral Sciences (9 SHC) <i>Three courses from three discipline areas are required.</i> 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. The following course is recommended: PSY 150 General Psychology (3 SHC)</p> | | | | | | |
| <p>Natural Sciences/Mathematics (20 SHC) <i>Natural Sciences (12 SHC):</i> The following courses are required: CHM 151 General Chemistry I (4 SHC) CHM 152 General Chemistry II (4 SHC) PHY 251 General Physics I (4 SHC) <i>Mathematics (8 SHC):</i> The following mathematics courses are required: MAT 271 Calculus I (4 SHC) MAT 272 Calculus II (4 SHC)</p> | | | | | | |

Other Required Hours (20-21 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 20 SHC of college transfer courses in general education, pre-major or elective courses are required.

The following courses are required (12 SHC):

| | |
|---------|------------------------------|
| CHM 251 | Organic Chemistry I (4 SHC) |
| CHM 252 | Organic Chemistry II (4 SHC) |
| PHY 252 | General Physics II (4 SHC) |

Three (3) hours of approved college transfer courses from “CSC” or “CIS” are required.

Five (5) additional hours of approved college transfer courses are required to total 64 SHC of transferable courses.

The following course is recommended:

| | |
|----------|----------------------|
| #MAT 273 | Calculus III (4 SHC) |
|----------|----------------------|

#Only students who place into MAT 272 (Calculus II) may choose MAT 273.

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 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:

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

Chemistry Education, Secondary Education: ASU, ECSU, NCA&T, NCCU, UNC-A*, UNC-W

*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 Chemistry and Chemistry Education. Admission to teacher licensure programs requires satisfactory scores on PRAXIS I and II.

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) |

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) *or* CHM 151 General Chemistry I (4 SHC) *or*
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 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 for Computer Science will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree: ASU, ECU, ECSU, FSU, NCA&T, NCCU, NCSU, UNC-A, UNC-C, UNC-G, UNC-P, UNC-W, WCU, WSSU.

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.