College Transfer Associate in Science (A.S.) Degree

The Associate in Science (A.S.) degree is designed for students who plan to transfer to a bachelor's degree granting college or university and major in Biology, Chemistry, Physics, Medicine, or Engineering. The degree transfers as a block to North Carolina public universities and other institutions that participate in the Comprehensive Articulation Agreement (CAA). Electives should be selected based on the intended major. For specific requirements, consult an Academic Advisor or the catalog of the bachelor's degree granting school to which transfer is intended. Electives must be chosen from transferable coursework. Additional transfer information can be found on our transfer website.

College Transfer Associate in Science Degree

- Associate in Science - Biological Sciences Pathway (A10400B)
- Associate in Science - Physical Science/Chemistry Pathway (A10400PC)
- Associate in Science - Teacher Preparation (A1040T)

Associate in Science - Biological Sciences Pathway (A10400B)

English Composition		
Take six credit hours of the following:		6.0
ENG 111	Writing and Inquiry	
ENG 112	Writing and Research in the Disciplines	
Humanities/Fine Arts		
Take three credit hours of the following:		3.0
COM 231	Public Speaking	
Take three credit hours of the following:		3.0
ART 111	Art Appreciation	
ART 114	Art History Survey I	
ART 115	Art History Survey II	
DRA 111	Theatre Appreciation	
ENG 231	American Literature I	
ENG 232	American Literature II	
ENG 241	British Literature I	
ENG 242	British Literature II	
MUS 110	Music Appreciation	
MUS 112	Introduction to Jazz	
PHI 215	Philosophical Issues	
PHI 240	Introduction to Ethics	
Social/Behavioral Sciences Core		
Take three credit hours of the following:		3.0
HIS 111	World Civilizations I	
HIS 112	World Civilizations II	
HIS 131	American History I	
HIS 132	American History II	
Take three credit hours of the following:		3.0
ECO 251	Principles of Microeconomics	
ECO 252	Principles of Macroeconomics	
POL 120	American Government	
PSY 150	General Psychology	
SOC 210	Introduction to Sociology	
Behavioral/Social Science Elective:		
Take three credit hours of the following:		3.0
ANT 210	General Anthropology	
ANT 220	Cultural Anthropology	
ANT 221	Comparative Cultures	
ECO 151	Survey of Economics	
ECO 251	Principles of Microeconomics	
ECO 252	Principles of Macroeconomics	
GEO 111	World Regional Geography	
HIS 111	World Civilizations I	
HIS 112	World Civilizations II	
HIS 131	American History I	
HIS 132	American History II	
POL 110	Introduction to Political Science	
POL 120	American Government	
POL 210	Comparative Government	
POL 220	International Relations	
PSY 150	General Psychology	
PSY 237	Social Psychology	
PSY 241	Developmental Psychology	
PSY 281	Abnormal Psychology	
SOC 210	Introduction to Sociology	
SOC 213	Sociology of the Family	
SOC 220	Social Problems	
SOC 225	Social Diversity (Math Core)	
Mathematics Core		
Take eight credit hours of the following:		8.0
MAT 171	Precalculus Algebra	
MAT 172	Precalculus Trigonometry	
MAT 271	Calculus I	
MAT 272	Calculus II	
Natural Sciences Core		
Take eight credit hours of the following BIO courses:		8.0
BIO 111 & BIO 112	General Biology I and General Biology II	
Take eight credit hours of the following CHM courses:		8.0
CHM 151 & CHM 152	General Chemistry I and General Chemistry II	
Other Required Hourse:		
ACA 122	Transfer & Career Success	1.0
Humanities/Fine Arts Elective:		
Take three credit hours of the following:		3.0
ART 111	Art Appreciation	
ART 114	Art History Survey I	
ART 115	Art History Survey II	
ART 116	Survey of American Art	
ART 117	Non-Western Art History	

ASL 111	Elementary ASL I	
DAN 110	Dance Appreciation	
DRA 111	Theatre Appreciation	
DRA 112	Literature of the Theatre	
ENG 231	American Literature I	
ENG 232	American Literature II	
ENG 241	British Literature I	
ENG 242	British Literature II	
ENG 251	Western World Literature I	
ENG 252	Western World Literature II	
FRE 111	Elementary French I	
GER 111	Elementary German I	
HUM 115	Critical Thinking	
HUM 120	Cultural Studies	
HUM 130	Myth in Human Culture	
HUM 211	Humanities I	
HUM 212	Humanities II	
MUS 110	Music Appreciation	
MUS 112	Introduction to Jazz	
PHI 215	Philosophical Issues	
PHI 220	Western Philosophy I	
PHI 240	Introduction to Ethics	
REL 110	World Religions	
REL 111	Eastern Religions	
REL 211	Introduction to Old Testament	
REL 212	Introduction to New Testament	
SPA 111	Elementary Spanish I	
Mathematics/Sciences Electives:		
Take eleven or twelve credit hours of the following:		11.0-12.0
AST 111/ AST 111A	Descriptive Astronomy	
AST 151/ AST 151A	General Astronomy I	
BIO 120	Introductory Botany	
BIO 130	Introductory Zoology	
BIO 140/ BIO 140A	Environmental Biology	
BIO 155	Nutrition	
BIO 168	Anatomy and Physiology I	
BIO 169	Anatomy and Physiology II	
BIO 175	General Microbiology	
BIO 275	Microbiology	
CHM 251	Organic Chemistry I	
CHM 252	Organic Chemistry II	
GEL 111	Geology	
MAT 152	Statistical Methods I	
MAT 263	Brief Calculus	
MAT 271	Calculus I	
MAT 272	Calculus II	
MAT 273	Calculus III	
MAT 280	Linear Algebra	
MAT 285	Differential Equations	
PHY 110/ PHY 110A	Conceptual Physics	
PHY 151	College Physics I	
PHY 152	College Physics II	
Students in this program may opt to complete WBL 111 as their 61st credit.		
Total Credits		**60-61**

***Note: Prior to registering for ASL 112, ASL 211, or ASL 212, students who have taken an ASL course at another college or university and/or who have had two or more consecutive semesters lapse since taking ASL must take a departmental ASL placement test to ensure proper placement.

Associate in Science - Physical Science Pathway (A10400PC)

General Education		
ENG 111	Writing and Inquiry	3.0
ENG 112	Writing and Research in the Disciplines	3.0
COM 231	Public Speaking	3.0
Select 3.0 credits from the following:		3.0
ART 111	Art Appreciation	
ART 114	Art History Survey I	
ART 115	Art History Survey II	
DRA 111	Theatre Appreciation	
ENG 231	American Literature I	
ENG 232	American Literature II	
ENG 241	British Literature I	
ENG 242	British Literature II	
MUS 110	Music Appreciation	
MUS 112	Introduction to Jazz	
PHI 215	Philosophical Issues	
PHI 240	Introduction to Ethics	
Behavioral/Social Sciences		
Select 3.0 credits from the following:		3.0
HIS 111	World Civilizations I	
HIS 112	World Civilizations II	
HIS 131	American History I	
HIS 132	American History II	
Select 3.0 credits from the following:		3.0
ECO 251	Principles of Microeconomics	
ECO 252	Principles of Macroeconomics	
POL 120	American Government	
PSY 150	General Psychology	
SOC 210	Introduction to Sociology	
Mathematics Core		
Select 8.0 credits of the following:		8.0
MAT 171	Precalculus Algebra	
MAT 172	Precalculus Trigonometry	
MAT 271	Calculus I	
MAT 272	Calculus II	
Select 8.0 credits of the following:		8.0
PHY 151 & PHY 152	College Physics I and College Physics II	

PHY 251 & PHY 252	General Physics I and General Physics II	
Additional General Education Hours		
Behavioral/Social Sciences		
Select 3.0 credits from the following:		3.0
ANT 210	General Anthropology	
ANT 220	Cultural Anthropology	
ANT 221	Comparative Cultures	
ECO 151	Survey of Economics	
ECO 251	Principles of Microeconomics	
ECO 252	Principles of Macroeconomics	
GEO 111	World Regional Geography	
HIS 111	World Civilizations I	
HIS 112	World Civilizations II	
HIS 131	American History I	
HIS 132	American History II	
POL 110	Introduction to Political Science	
POL 120	American Government	
POL 210	Comparative Government	
POL 220	International Relations	
PSY 150	General Psychology	
PSY 237	Social Psychology	
PSY 241	Developmental Psychology	
PSY 281	Abnormal Psychology	
SOC 210	Introduction to Sociology	
SOC 213	Sociology of the Family	
SOC 220	Social Problems	
SOC 225	Social Diversity	
Physical Sciences		
CHM 151	General Chemistry I	4.0
CHM 152	General Chemistry II	4.0
Other Required Hours:		
ACA 122	Transfer & Career Success	1.0
Math/Sciences Electives		
Select 11.0-12.0 credits from the following:		11.0
AST 111 &	Descriptive Astronomy and Descriptive Astronomy Lab	
AST 151 &	General Astronomy I and General Astronomy I Lab	
BIO 110	Principles of Biology	
BIO 168	Anatomy and Physiology I	
BIO 169	Anatomy and Physiology II	
CHM 251	Organic Chemistry I	
CHM 252	Organic Chemistry II	
GEO 131	Physical Geography I	
GEL 111	Geology	
GEL 113	Historical Geology	
MAT 152	Statistical Methods I	
MAT 263	Brief Calculus	
MAT 271	Calculus I	
MAT 272	Calculus II	
MAT 273	Calculus III	
MAT 280	Linear Algebra	
MAT 285	Differential Equations	
Humanities/Fine Arts Elective		
Select 3.0 of the following courses:		3.0
ART 111	Art Appreciation	
ART 114	Art History Survey I	
ART 115	Art History Survey II	
ART 116	Survey of American Art	
ART 117	Non-Western Art History	
ASL 111	Elementary ASL I	
DAN 110	Dance Appreciation	
DRA 111	Theatre Appreciation	
DRA 112	Literature of the Theatre	
DRA 211	Theatre History I	
DRA 212	Theatre History II	
ENG 231	American Literature I	
ENG 232	American Literature II	
ENG 241	British Literature I	
ENG 242	British Literature II	
ENG 251	Western World Literature I	
ENG 252	Western World Literature II	
FRE 111	Elementary French I	
GER 111	Elementary German I	
HUM 115	Critical Thinking	
HUM 120	Cultural Studies	
HUM 130	Myth in Human Culture	
HUM 211	Humanities I	
HUM 212	Humanities II	
MUS 110	Music Appreciation	
MUS 112	Introduction to Jazz	
PHI 215	Philosophical Issues	
PHI 220	Western Philosophy I	
PHI 240	Introduction to Ethics	
REL 110	World Religions	
REL 111	Eastern Religions	
REL 211	Introduction to Old Testament	
REL 212	Introduction to New Testament	
SPA 111	Elementary Spanish I	

Students in this program may opt to complete WBL 111 as their 61st credit.

Total Credits	**60**

Associate in Science in Teacher Preparation (A1040T)

The Associate in Science in Teacher Preparation prepares students for careers in secondary education with a focus on STEM fields. Students transfer to a four-year college to complete a bachelor's degree in education and pursue teacher licensure. To transfer, students must earn a C or higher in all courses and maintain a 2.7 GPA. Coursework includes general education, science-focused electives, and Teacher Prep classes that build essential teaching skills. Courses should be taken in the recommended sequence as each Teacher Prep course builds on the last. This program is offered fully online, with in-person sections also available

and encouraged for hands-on learning and collaboration with peers and instructors.

General Education Requirements

ENG 111	Writing and Inquiry	3.0
ENG 112	Writing and Research in the Disciplines	3.0
COM 231	Public Speaking	3.0
Take 3 credits from the following courses:		3.0
ART 111	Art Appreciation	
ART 114	Art History Survey I	
ART 115	Art History Survey II	
DRA 111	Theatre Appreciation	
ENG 231	American Literature I	
ENG 232	American Literature II	
ENG 241	British Literature I	
ENG 242	British Literature II	
MUS 110	Music Appreciation	
MUS 112	Introduction to Jazz	
PHI 215	Philosophical Issues	
PHI 240	Introduction to Ethics	
Take 3 credits from the following courses:		3.0
ECO 251	Principles of Microeconomics	
ECO 252	Principles of Macroeconomics	
HIS 111	World Civilizations I	
HIS 112	World Civilizations II	
HIS 131	American History I	
HIS 132	American History II	
POL 120	American Government	
PSY 150	General Psychology	
SOC 210	Introduction to Sociology	
Take 8 credits from the following courses:		8.0
MAT 171	Precalculus Algebra	
MAT 172	Precalculus Trigonometry	
MAT 263	Brief Calculus	
MAT 271	Calculus I	
MAT 272	Calculus II	
Take 8 credits from the following courses:		8.0
CHM 151	General Chemistry I	
CHM 152	General Chemistry II	
PHY 151	College Physics I	
PHY 152	College Physics II	
PHY 251	General Physics I	
AST 151	General Astronomy I	
AST 151A	General Astronomy I Lab	
BIO 110	Principles of Biology	
GEL 111	Geology	
PHY 110	Conceptual Physics	
PHY 110A	Conceptual Physics Lab	
BIO 111	General Biology I	
BIO 112	General Biology II	
Take 11 credits from the following courses:		11.0
ASL 111	Elementary ASL I	
ASL 112	Elementary ASL II	
ASL 211	Intermediate ASL I	
ASL 212	Intermediate ASL II	
AST 111	Descriptive Astronomy	
AST 111A	Descriptive Astronomy Lab	
AST 151	General Astronomy I	
AST 151A	General Astronomy I Lab	
BIO 110	Principles of Biology	
BIO 111	General Biology I	
BIO 112	General Biology II	
CHM 151	General Chemistry I	
CHM 152	General Chemistry II	
CIS 110	Introduction to Computers	
CIS 115	Introduction to Programming and Logic	
ECO 251	Principles of Microeconomics	
ECO 252	Principles of Macroeconomics	
FRE 111	Elementary French I	
FRE 112	Elementary French II	
FRE 211	Intermediate French I	
FRE 212	Intermediate French II	
GEL 111	Geology	
GEO 111	World Regional Geography	
GER 111	Elementary German I	
GER 112	Elementary German II	
GER 211	Intermediate German I	
GER 212	Intermediate German II	
MAT 152	Statistical Methods I	
MAT 171	Precalculus Algebra	
MAT 172	Precalculus Trigonometry	
MAT 263	Brief Calculus	
MAT 271	Calculus I	
MAT 272	Calculus II	
PHY 110	Conceptual Physics	
PHY 110A	Conceptual Physics Lab	
PHY 151	College Physics I	
PHY 152	College Physics II	
PHY 251	General Physics I	
PHY 252	General Physics II	
PSY 150	General Psychology	
PSY 237	Social Psychology	
PSY 241	Developmental Psychology	
PSY 281	Abnormal Psychology	
SPA 111	Elementary Spanish I	
SPA 112	Elementary Spanish II	
SPA 211	Intermediate Spanish I	
SPA 212	Intermediate Spanish II	
Major Requirements		
ACA 122	Transfer & Career Success	1.0
EDU 187	Teaching and Learning for All	4.0
EDU 216	Foundations of Education	3.0
EDU 250	Teacher Licensure Preparation	3.0
EDU 279	Literacy Development and Instruction	4.0

SOC 225	Social Diversity	3.0
Total Credits		**60**

The following are suggested course plans if you would like to complete the Associate in Science and transfer to a four-year school for a variety of majors. These plans are based on the program requirements of the 2026-2027 catalog. These are only recommendations — you may take courses in another order upon consultation with your advisor. These plans are based on you starting with college-level math and English courses, starting your program in the fall, and attending full-time. You can also follow these sequences if you attend part-time. Speak with an advisor about your plans and note that recommendations may vary depending on your intended transfer institution.

Course sequence by major:

- Associate in Science - Biology Transfer Pathway
- Associate in Science - Physical Science/Chemistry Pathway
- Associate in Science in Teacher Prep

Associate in Science - Biology Transfer Pathway

Term I		**Credits**
ENG 111	Writing and Inquiry	3.0
ACA 122	Transfer & Career Success	1.0
BIO 111	General Biology I	4.0
MAT 171	Precalculus Algebra	4.0
HIS 111 or HIS 112 or HIS 131 or HIS 132	World Civilizations I or World Civilizations II or American History I or American History II	3.0
	Credits	**15**
Term II		
ENG 112	Writing and Research in the Disciplines	3.0
BIO 112	General Biology II	4.0
MAT 172	Precalculus Trigonometry	4.0
COM 231	Public Speaking	3.0
Behavioral/Social Science		3.0
	Credits	**17**
Term III		
CHM 151	General Chemistry I	4.0
Math/Science Elective		4.0
Humanities/Fine Arts Elective		3.0
Behavioral/Social Science		3.0
	Credits	**14**
Term IV		
CHM 152	General Chemistry II	4.0
Math/Science Elective		4.0
Humanities/Fine Arts Elective		3.0
Math/Science Elective		3.0
	Credits	**14**
	Total Credits	**60**

Associate in Science - Physical Science/ Chemistry Transfer Pathway

Term I		**Credits**
ENG 111	Writing and Inquiry	3.0
ACA 122	Transfer & Career Success	1.0
CHM 151	General Chemistry I	4.0
MAT 171	Precalculus Algebra	4.0
HIS 111 or HIS 112 or HIS 131 or HIS 132	World Civilizations I or World Civilizations II or American History I or American History II	3.0
	Credits	**15**
Term II		
ENG 112	Writing and Research in the Disciplines	3.0
CHM 152	General Chemistry II	4.0
MAT 172	Precalculus Trigonometry	4.0
COM 231	Public Speaking	3.0
	Credits	**14**
Term III		
Math/Science Elective		3.0
	Credits	**3**
Term IV		
PHY 151 or PHY 251	College Physics I or General Physics I	4.0
CHM 251	Organic Chemistry I	4.0
Humanities/Fine Arts		3.0
Behavioral/Social Science		3.0
	Credits	**14**
Term V		
PHY 152 or PHY 252	College Physics II or General Physics II	4.0
CHM 252	Organic Chemistry II	4.0
Humanities/Fine Arts		3.0
Behavioral/Social Science		3.0
	Credits	**14**
	Total Credits	**60**

Associate in Science in Teacher Prep

Term I		**Credits**
ENG 111	Writing and Inquiry	3.0
ACA 122	Transfer & Career Success	1.0
EDU 216	Foundations of Education	3.0
MAT 171	Precalculus Algebra	4.0
General Education Elective		3.0
	Credits	**14**
Term II		
ENG 112	Writing and Research in the Disciplines	3.0
EDU 187	Teaching and Learning for All	4.0
MAT 172	Precalculus Trigonometry	4.0
General Education Elective (Foreign Language Recommended)		3.0
	Credits	**14**
Term III		
ENG 231 or ENG 232 or ENG 241 or ENG 242	American Literature I or American Literature II or British Literature I or British Literature II	3.0
HIS 111 or HIS 112 or HIS 131 or HIS 132	World Civilizations I or World Civilizations II or American History I or American History II	3.0
EDU 250	Teacher Licensure Preparation	3.0
SOC 225	Social Diversity	3.0
SOC-210 or SOC-213 can be taken in lieu of SOC-225. Please see your advisor for a course substitution.		
BIO 111	General Biology I	4.0
	Credits	**16**
Term IV		
General Education Elective		3.0
EDU 279	Literacy Development and Instruction	4.0
BIO 112	General Biology II	4.0

General Education Elective (a total of 11 General Elective credits are required. See Advising)		3.0
COM 231	Public Speaking	3.0
	Credits	**17**
	Total Credits	**61**

*Students who intend to transfer to UNCC may have additional course requirements and are encouraged to work closely with their advisor.