

Semester Curriculum for Veterinary Medical Technology

Degree

1st Semester (Fall)		C-L-SHC
MAT 110	Mathematical Measurement	2-2-3
VET 110	Animal Breeds and Husbandry	2-2-3
VET 114	Introduction to Veterinary Med Tech.	1-0-1
VET 120	Veterinary Anatomy and Physiology	3-3-4
VET 121	Veterinary Medical Terminology	3-0-3
	Humanities/Fine Arts Elective	3-0-3
		14-7-17
2nd Semester (Spring)		
CHM 130	General Organic and Biochemistry	3-0-3
CHM 130A	General Organic and Biochemistry Lab	0-2-1
ENG 111	Expository Writing	3-0-3
ENG 111A	Expository Writing Lab	0-2-1
	Social/Behavioral Science Elective	3-0-3
VET 123	Veterinary Parasitology	2-3-3
VET 125	Veterinary Diseases I	2-0-2
		13-7-16
3rd Semester (Summer)		
VET 131	Veterinary Lab Techniques I	2-3-3
VET 133	Veterinary Clinical Practices I	2-3-3
COE 112A	Co-op Work Experience I	0-10-1
		4-16-7
4th Semester (Fall)		
ENG 114	Professional Research and Reporting	3-0-3
VET 126	Veterinary Diseases II	1-3-2
VET 211	Veterinary Lab Techniques II	2-3-3
VET 213	Veterinary Clinical Practices II	1-9-4
VET 215	Veterinary Pharmacology	3-0-3
VET 137	Veterinary Office Practices	1-2-2
		11-17-17
5th Semester (Spring)		
VET 212	Veterinary Lab Techniques III	2-3-3
VET 214	Veterinary Clinical Practices III	1-9-4
VET 217	Large Animal Clinical Practices	2-3-3
VET 237	Animal Nutrition	3-0-3
COE 112B	Co-op Work Experience II	0-10-1
		8-25-14
Total Semester Hours Credit: 71		

Arts and Sciences (College Transfer)

Associate in Arts

Associate in Arts

Pre-Major Associate in Arts Degrees

Arts and Sciences

Comprehensive Articulation Agreement

North Carolina Community College System

University of North Carolina System

Associate in Arts Degree

A1010000

This program prepares the student to transfer courses or the degree in its entirety to a four-year senior institution. The Associate in Arts Degree stresses Communication, social and behavioral sciences, humanities, and fine arts.

Program Length: 4 semesters

Career Pathway Options: Associate in Arts Degree, Baccalaureate Degree at a Senior Institution

Program Sites:

Lee Campus – Day, 1st and 2nd Year, Evening, 1st and 2nd Year

Chatham Campus – Day, 1st and 2nd Year, Evening, 1st and 2nd Year

Harnett Campus – Day, 1st and 2nd Year, Evening, 1st and 2nd Year

Distance Education - 1st and 2nd Year - All Campuses

Course Requirements for Associate in Arts Degree

I. General Education (44 SHC)

A. Composition (6 SHC)		C-L-CR
ENG 111	Expository Writing	3-0-3
	and	
ENG 112	Argument-Based Research	3-0-3
	OR	
ENG 113	Literature-Based Research	3-0-3
	OR	
ENG 114	Professional Research and Reporting	3-0-3

B. Humanities/Fine Arts (12 SHC)

Select courses from at least three of the following areas: art, music, drama, dance, foreign language, interdisciplinary humanities, literature, philosophy, and religion. At least one course must be a literature course. 3 SHC of speech/Communication (COM) may substitute for 3 SHC of Humanities and Fine Arts in AA and AS Degree programs. Speech/Communication may not substitute for the literature requirement.

ART 111	Art Appreciation	3-0-3
ART 114	Art History Survey I	3-0-3
ART 115	Art History Survey II	3-0-3
ART 117	Non-Western Art Survey	3-0-3
CHI 111	Elementary Chinese I	3-0-3
CHI 112	Elementary Chinese II	3-0-3

CHI 211	Intermediate Chinese I	3-0-3	POL 120	American Government	3-0-3
CHI 212	Intermediate Chinese II	3-0-3	POL 210	Comparative Government	3-0-3
COM 110	Introduction to Communication	3-0-3	POL 220	International Relations	3-0-3
COM 120	Interpersonal Communication	3-0-3	PSY 150	General Psychology	3-0-3
COM 231	Public Speaking	3-0-3	PSY 237	Social Psychology	3-0-3
DRA 111	Theatre Appreciation	3-0-3	PSY 241	Developmental Psychology	3-0-3
DRA 112	Literature of the Theatre	3-0-3	PSY 281	Abnormal Psychology	3-0-3
DRA 211	Theatre History I	3-0-3	SOC 210	Introduction to Sociology	3-0-3
ENG 231	American Literature I	3-0-3	SOC 213	Sociology of the Family	3-0-3
ENG 232	American Literature II	3-0-3	SOC 220	Social Problems	3-0-3
ENG 233	Major American Writers	3-0-3	SOC 225	Social Diversity	3-0-3
ENG 241	British Literature I	3-0-3	SOC 240	Social Psychology	3-0-3
ENG 242	British Literature II	3-0-3			
ENG 243	Major British Writers	3-0-3			
ENG 261	World Literature I	3-0-3			
ENG 262	World Literature II	3-0-3			
FRE 111	Elementary French I	3-0-3			
FRE 112	Elementary French II	3-0-3			
FRE 211	Intermediate French I	3-0-3			
FRE 212	Intermediate French II	3-0-3			
HUM 110	Technology and Society	3-0-3			
HUM 115	Critical Thinking	3-0-3			
HUM 120	Cultural Studies	3-0-3			
HUM 122	Southern Culture	3-0-3			
HUM 150	American Women's Studies	3-0-3			
HUM 160	Introduction to Film	2-2-3			
HUM 220	Human Values and Meaning	3-0-3			
MUS 110	Music Appreciation	3-0-3			
MUS 112	Introduction to Jazz	3-0-3			
PHI 210	History of Philosophy	3-0-3			
PHI 215	Philosophical Issues	3-0-3			
PHI 230	Introduction to Logic	3-0-3			
PHI 240	Introduction to Ethics	3-0-3			
REL 110	World Religions	3-0-3			
REL 211	Introduction to Old Testament	3-0-3			
REL 212	Introduction to New Testament	3-0-3			
SPA 111	Elementary Spanish I	3-0-3			
SPA 112	Elementary Spanish II	3-0-3			
SPA 211	Intermediate Spanish I	3-0-3			
SPA 212	Intermediate Spanish II	3-0-3			
C. Social and Behavioral Sciences (12 SHC)					
Select courses from each of three of the following disciplines: anthropology, economics, geography, history, political science, psychology, and sociology. At least one course must be a history course.					
ANT 210	General Anthropology	3-0-3			
ANT 220	Cultural Anthropology	3-0-3			
ECO 151	Survey of Economics	3-0-3			
ECO 251	Principles of Microeconomics	3-0-3			
ECO 252	Principles of Macroeconomics	3-0-3			
GEO 111	World Regional Geography	3-0-3			
HIS 111	World Civilizations I	3-0-3			
HIS 112	World Civilizations II	3-0-3			
HIS 115	Introduction to Global History	3-0-3			
HIS 121	Western Civilization I	3-0-3			
HIS 122	Western Civilization II	3-0-3			
HIS 131	American History I	3-0-3			
HIS 132	American History II	3-0-3			
D. Natural Sciences (8 SHC)					
Select two courses, including accompanying laboratory work, from among the biological and physical science disciplines.					
AST 111	Descriptive Astronomy	3-0-3			
AST 111A	Descriptive Astronomy Lab	0-2-1			
BIO 110	Principles of Biology	3-3-4			
BIO 111	General Biology I	3-3-4			
BIO 112	General Biology II	3-3-4			
BIO 120	Introductory Botany	3-3-4			
BIO 130	Introductory Zoology	3-3-4			
BIO 140	Environmental Biology	3-0-3			
BIO 140A	Environmental Biology Lab	0-3-1			
CHM 131	Introduction to Chemistry	3-0-3			
CHM 131A	Introduction to Chemistry Lab	0-3-1			
CHM 132	Organic and Biochemistry	3-3-4			
CHM 151	General Chemistry I	3-3-4			
CHM 152	General Chemistry II	3-3-4			
GEL 111	Introductory Geology	3-2-4			
GEL 113	Historical Geology	3-2-4			
GEL 130	Historical Geology	3-2-4			
GEL 230	Environmental Geology	3-2-4			
PHY 110	Conceptual Physics	3-0-3			
PHY 110A	Conceptual Physics Lab	0-2-1			
PHY 151	College Physics I	3-2-4			
PHY 152	College Physics II	3-2-4			
PHY 251	General Physics I	3-3-4			
PHY 252	General Physics II	3-3-4			
E. Mathematics (6 SHC)					
Select at least one course in introductory mathematics; the other unit may be selected from other quantitative subjects, such as computer science and statistics.					
CIS 110	Introduction to Computers	2-2-3			
CIS 115	Introduction to Programming and Logic	2-2-3			
MAT 140	Survey of Mathematics	3-0-3			
MAT 151	Statistics I	3-0-3			
MAT 161	College Algebra	3-0-3			
MAT 162	College Trigonometry	3-0-3			
MAT 171	Precalculus Algebra	3-0-3			
MAT 172	Precalculus Trigonometry	3-0-3			
MAT 175	Precalculus	4-0-4			
MAT 263	Brief Calculus	3-0-3			
MAT 271	Calculus I	3-2-4			
MAT 272	Calculus II	3-2-4			
MAT 273	Calculus III	3-2-4			

II. Other Major Hours Required for Graduation (20-21 SHC)*

These courses may be selected from the following or any of the above listed courses not used to meet minimum block requirements. Students should consult with their advisor to determine the appropriate elective to complete based upon the requirements of the selected receiving institution and the students' intended major. Must include a minimum of 2 SHC in physical education. Must take ENG 111A with ENG 111. Work experience may be included up to 1 SHC in career exploration.

ACC 120	Principles of Financial Accounting	3-2-4
ACC 121	Principles of Managerial Accounting	3-2-4
ART 121	Design I	0-6-3
ART 122	Design II	0-6-3
ART 131	Drawing I	0-6-3
ART 132	Drawing II	0-6-3
ART 214	Portfolio and Resume	0-2-1
ART 231	Printmaking I	0-6-3
ART 232	Printmaking II	0-6-3
ART 240	Painting I	0-6-3
ART 241	Painting II	0-6-3
ART 281	Sculpture I	0-6-3
ART 282	Sculpture II	0-6-3
ART 283	Ceramics I	0-6-3
ART 284	Ceramics II	0-6-3
ART 288	Studio	0-6-3
BIO 163	Basic Anatomy and Physiology	4-2-5
BIO 165	Anatomy and Physiology I	3-3-4
BIO 166	Anatomy and Physiology II	3-3-4
BIO 168	Anatomy and Physiology I	3-3-4
BIO 169	Anatomy and Physiology II	3-3-4
BIO 175	General Microbiology	2-2-3
BIO 176	Advanced General Microbiology	1-2-2
BIO 271	Pathophysiology	3-0-3
BIO 275	Microbiology	3-3-4
BIO 280	Biotechnology	2-2-3
BUS 110	Introduction to Business	3-0-3
BUS 115	Business Law I	3-0-3
BUS 228	Business Statistics	2-2-3
CHI 181	Chinese Lab I	0-2-1
CHI 182	Chinese Lab II	0-2-1
CHM 130	General, Organic and Biochemistry	3-0-3
CHM 130A	General, Organic, and Biochemistry Lab	0-2-1
CHM 251	Organic Chemistry I	3-3-4
CHM 252	Organic Chemistry II	3-3-4
CJC 111	Introduction to Criminal Justice	3-0-3
CJC 121	Law Enforcement Operations	3-0-3
CJC 141	Corrections	3-0-3
COE 111	Co-op Work Experience I	0-10-1
COE 115	Work Experience Seminar I	1-0-1
COM 130	Nonverbal Communication	3-0-3
COM 140	Intercultural Communication	3-0-3
CSC 134	C++ Programming	2-3-3
CSC 151	JAVA Programming	2-3-3
DRA 120	Voice for Performance	3-0-3

DRA 124	Readers Theatre	3-0-3
DRA 130	Acting I	0-6-3
DRA 131	Acting II	0-6-3
DRA 140	Stagecraft I	0-6-3
DRA 141	Stagecraft II	0-6-3
DRA 145	Stage Makeup	
DRA 170	Play Production I	0-9-3
DRA 171	Play Production II	0-9-3
DRA 260	Directing	0-6-3
DRA 270	Play Production III	0-9-3
DRA 271	Play Production IV	0-9-3
ENG 111A	Expository Writing Lab	0-2-1
ENG 125	Creative Writing I	3-0-3
ENG 126	Creative Writing II	3-0-3
ENG 273	African American Literature	3-0-3
HEA 110	Personal Health and Wellness	3-0-3
HIS 151	Hispanic Civilization	3-0-3
HIS 222	African-American History I	3-0-3
HIS 236	North Carolina History	3-0-3
HUM 180	International Cultural Exploration	2-3-3
MAT 210	Logic	3-0-3
MAT 280	Linear Algebra	3-0-3
MAT 285	Differential Equations	3-0-3
PED 110	Fit and Well for Life	1-2-2
PED 113	Aerobics I	0-3-1
PED 114	Aerobics II	0-3-1
PED 115	Step Aerobics I	0-3-1
PED 116	Step Aerobics II	0-3-1
PED 117	Weight Training I	0-3-1
PED 118	Weight Training II	0-3-1
PED 121	Walk, Jog, Run	0-3-1
PED 128	Golf-Beginning	0-2-1
PED 130	Tennis-Beginning	0-2-1
PED 139	Bowling-Beginning	0-2-1
PED 143	Volleyball-Beginning	0-2-1
PED 145	Basketball-Beginning	0-2-1
PED 148	Softball	0-2-1
PED 149	Flag Football	0-2-1
PED 152	Swimming - Beginning	0-2-1
PED 155	Water Aerobics	0-3-1
PED 160	Canoe - Basic	0-2-1
PED 254	Coaching Basketball	1-2-2
POL 130	State and Local Government	3-0-3
PSY 246	Adolescent Psychology	3-0-3
SOC 232	Social Context of Aging	3-0-3
SPA 141	Culture and Civilization	3-0-3
SPA 151	Hispanic Literature	3-0-3
SPA 161	Cultural Immersion	3-0-3

* 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.

**Selected Universities (Must contact receiving institution.)

NOTE: If a student completed the ENG 111 requirement at an institution that does not require four semester hours of first-level English, the fourth hour is waived and the student

may graduate with 64 semester hours total credit. Conversely, if a student is required to take ENG 111A at an institution that does require four semester hours of first-level English (as does Central Carolina Community College), that student must complete 65 semester hours total credit to graduate.

Suggested Semester Sequence for Associate in Arts Degree

1st Semester (Fall)		C-L-CR
ENG 111	Expository Writing	3-0-3
ENG 111A	Expository Writing Lab	0-2-1
	Natural Science Course and Lab	3-3-4
	Required History Course	3-0-3
	Approved Introduction Math Course	3/4-0-3/4
	Required Physical Education Elective	0-2-1
		12/13-7-15/16

2nd Semester (Spring)		C-L-CR
ENG 112	Argument-Based Research	3-0-3
	OR	
ENG 113	Literature-Based Research	
	OR	
ENG 114	Professional Research and Reporting	
	Natural Science Course and Lab	3-3-4
	Approved Social/Behavioral Science	3-0-3
	Required Mathematics Course	3-0-3
	Approved Elective Course	3-0-3
		15-3-16

	Required Literature Course	3-0-3
	Required Physical Education Elective	0-2-1
	Approved Humanities/Fine Arts Course	3-0-3
	Approved Social/Behavioral Science Course	3-0-3
	Approved Elective	3-0-3
	Approved Elective	3-0-3
		15-2-16

4th Semester (Spring)		C-L-CR
	Approved Humanities/Fine Arts Course	3-0-3
	Approved Humanities/Fine Arts Course	3-0-3
	Approved Social/Behavioral Science Course	3-0-3
	Approved Elective	3-0-3
	Approved Elective	3-0-3
	Approved Elective	3-0-3
		18-0-18

Total Degree Hours Required: 65-66 SHC

Diploma of Transfer Readiness D1010000

This diploma is issued upon the successful completion of the Associate in Arts (AA) general education core. The Comprehensive Articulation Agreement (CAA) states that students completing the general education transfer core will be considered to have fulfilled the institution-wide, lower division general education requirements of the receiving institution. This diploma shall include a minimum of 44 and a maximum of 47 semester hours of general education core courses approved for transfer to The University of North Carolina constituent institutions.

Program Length: 3 semesters

Career Pathway Options: Associate in Arts or Associate in Science Degree; Baccalaureate Degree at a Senior Institution

Program Sites: Chatham Campus - Day and Selected Evening Courses; Harnett Campus - Day and Selected Evening Courses; Lee Campus - Day and Evening Programs; Distance Education

Associate in Science
Pre-Major Associate in Science Degrees
Arts and Sciences
Comprehensive Articulation Agreement
North Carolina Community College System
University of North Carolina System

This program prepares the student to transfer courses or the degree in its entirety to a four-year senior institution. The Associate in Science Degree stresses natural and physical sciences, mathematics, communication, and the social sciences.

Program Length: 4 semesters

Career Pathway Options: Associate in Science Degree, Baccalaureate Degree at a Senior Institution

Program Sites:

Lee Campus - Day and Evening, 1st and 2nd Year

Chatham Campus - Day - 1st Year, Selected Evening Courses

Harnett Campus - Day - 1st Year, Selected Evening Courses

Distance Education - Selected Courses

Course Requirements for Associate in Science Degree

I. General Education (44 SHC)

A. Composition (6 SHC) C-L-SHC

ENG 111 Expository Writing 3-0-3

ENG 112 Argument-Based Research 3-0-3
OR

ENG 113 Literature-Based Research 3-0-3
OR

ENG 114 Professional Research and Reporting 3-0-3

B. Humanities/Fine Arts (9 SHC)

Choose courses from at least three different areas. One course must be a literature course (ENG). 3 SHC of speech/communication (COM) may substitute for 3 SHC of Humanities/Fine Arts in AA and AS degree programs. Speech/Communication may not substitute for the literature requirements.

ART 111 Art Appreciation 3-0-3

ART 114 Art History Survey I 3-0-3

ART 115 Art History Survey II 3-0-3

ART 117 Non-Western Art Survey 3-0-3

CHI 111 Elementary Chinese I 3-0-3

CHI 112 Elementary Chinese II 3-0-3

CHI 211 Intermediate Chinese I 3-0-3

CHI 212 Intermediate Chinese II 3-0-3

COM 110 Introduction to Communication 3-0-3

COM 120 Interpersonal Communication 3-0-3

COM 231 Public Speaking 3-0-3

DRA 111 Theatre Appreciation 3-0-3

ENG 231 American Literature I 3-0-3

ENG 232 American Literature II 3-0-3

ENG 233 Major American Writers 3-0-3

ENG 241 British Literature I 3-0-3

ENG 242	British Literature II	3-0-3
ENG 243	Major British Writers	3-0-3
ENG 261	World Literature I	3-0-3
ENG 262	World Literature II	3-0-3
FRE 111	Elementary French I	3-0-3
FRE 112	Elementary French II	3-0-3
FRE 211	Intermediate French I	3-0-3
FRE 212	Intermediate French II	3-0-3
HUM 110	Technology and Society	3-0-3
HUM 115	Critical Thinking	3-0-3
HUM 120	Cultural Studies	3-0-3
HUM 122	Southern Culture	3-0-3
HUM 150	American Women's Studies	3-0-3
HUM 160	Introduction to Film	2-2-3
HUM 220	Human Values and Meaning	3-0-3
MUS 110	Music Appreciation	3-0-3
MUS 112	Introduction to Jazz	3-0-3
PHI 210	History of Philosophy	3-0-3
PHI 215	Philosophical Issues	3-0-3
PHI 230	Introduction to Logic	3-0-3
PHI 240	Introduction to Ethics	3-0-3
REL 110	World Religions	3-0-3
REL 211	Introduction to Old Testament	3-0-3
REL 212	Introduction to New Testament	3-0-3
SPA 111	Elementary Spanish I	3-0-3
SPA 112	Elementary Spanish II	3-0-3
SPA 211	Intermediate Spanish I	3-0-3
SPA 212	Intermediate Spanish II	3-0-3

C. Social/Behavioral Sciences (9 SHC)

Select courses from each of three disciplines. One course must be a history course.

ANT 210 General Anthropology 3-0-3

ANT 220 Cultural Anthropology 3-0-3

ECO 151 Survey of Economics 3-0-3

ECO 251 Principles of Microeconomics 3-0-3

ECO 252 Principles of Macroeconomics 3-0-3

GEO 111 World Regional Geography 3-0-3

HIS 111 World Civilizations I 3-0-3

HIS 112 World Civilizations II 3-0-3

HIS 115 Introduction to Global History 3-0-3

HIS 121 Western Civilization I 3-0-3

HIS 122 Western Civilization II 3-0-3

HIS 131 American History I 3-0-3

HIS 132 American History II 3-0-3

POL 120 American Government 3-0-3

POL 210 Comparative Government 3-0-3

POL 220 International Relations 3-0-3

PSY 150 General Psychology 3-0-3

PSY 237 Social Psychology 3-0-3

PSY 241 Developmental Psychology 3-0-3

PSY 281 Abnormal Psychology 3-0-3

SOC 210 Introduction to Sociology 3-0-3

SOC 213 Sociology of the Family 3-0-3

SOC 220 Social Problems 3-0-3

SOC 225 Social Diversity 3-0-3

SOC 240 Social Psychology 3-0-3

D. Natural Sciences (8 SHC)

A two-course sequence in general biology, general chemistry, or general physics is required.

BIO 111	General Biology I	3-3-4
BIO 112	General Biology II	3-3-4
CHM 151	General Chemistry I	3-3-4
CHM 152	General Chemistry II	3-3-4
PHY 151	College Physics I	3-2-4
PHY 152	College Physics II	3-2-4
PHY 251	General Physics I	3-3-4
PHY 252	General Physics II	3-3-4

E. Mathematics (6 SHC)

At least one course in mathematics at the Precalculus algebra level or above is required; the other course may be a higher level mathematics course or may be selected from among other quantitative subjects, such as computer science and statistics.

CIS 110	Introduction to Computers	2-2-3
CIS 115	Introduction to Programming and Logic	2-2-3
MAT 151	Statistics I	3-0-3
MAT 171	Precalculus Algebra	3-0-3
MAT 172	Precalculus Trigonometry	3-0-3
MAT 175	Precalculus	4-0-4
MAT 263	Brief Calculus	3-0-3
MAT 271	Calculus I	3-2-4
MAT 272	Calculus II	3-2-4
MAT 273	Calculus III	3-2-4

F. Natural Sciences/Mathematics

****Six additional semester hour credits must be selected from courses designated as Natural Sciences/Mathematics general education transfer courses. Courses can be selected from any courses in Part D or Part E above or from the courses listed below.**

AST 111	Descriptive Astronomy	3-0-3
AST 111A	Descriptive Astronomy Lab	0-2-1
BIO 110	Principles of Biology	3-3-4
BIO 120	Introductory Botany	3-3-4
BIO 130	Introductory Zoology	3-3-4
BIO 140	Environmental Biology	3-0-3
BIO 140A	Environmental Biology Lab	0-3-1
CHM 131	Introduction to Chemistry	3-0-3
CHM 131A	Introduction to Chemistry Lab	0-3-1
CHM 132	Organic and Biochemistry	3-3-4
GEL 111	Introductory Geology	3-2-4
GEL 113	Historical Geology	3-2-4
GEL 230	Environmental Geology	3-2-4
PHY 110	Conceptual Physics	3-0-3
PHY 110A	Conceptual Physics Lab	0-2-1

II. Other Required Hours (20-21 SHC)*

These courses may be selected from the following or any of the above listed courses not used to meet minimum block requirements. Students should consult with their advisor to determine the appropriate elective to complete based upon the requirements of the selected receiving institution and the

students' intended major. Must include a minimum of 14 SHC of college transfer courses in mathematics, natural science or computer science. The remaining courses may be selected from general education, pre-major or elective courses. Must include a minimum of 2 SHC in physical education. Must take ENG 111A with ENG 111. Work experience may be included up to 1 SHC career exploration.

ACA 122	College Transfer Success	1-0-1
ACC 120	Principles of Financial Acct.	3-2-4
ACC 121	Principles of Managerial Acct	3-2-4
ART 131	Drawing I	0-6-3
BIO 163	Basic Anatomy and Physiology	4-2-5
BIO 165	Anatomy and Physiology I	3-3-4
BIO 166	Anatomy and Physiology II	3-3-4
BIO 168	Anatomy and Physiology I	3-3-4
BIO 169	Anatomy and Physiology II	3-3-4
BIO 175	General Microbiology	2-2-3
BIO 176	Adv General Microbiology	1-2-2
BIO 271	Pathophysiology	3-0-3
BIO 275	Microbiology	3-3-4
BIO 280	Biotechnology	2-2-3
BUS 110	Introduction to Business	3-0-3
BUS 115	Business Law I	3-0-3
BUS 228	Business Statistics	2-2-3
CHI 181	Chinese Lab I	0-2-1
CHI 182	Chinese Lab II	0-2-1
CHM 130	General, Organic, and Biochemistry	3-0-3
CHM 130A	General, Organic, and Biochemistry Lab	0-2-1
CHM 251	Organic Chemistry I	3-3-4
CHM 252	Organic Chemistry II	3-3-4
CJC 111	Introduction to Criminal Justice	3-0-3
CJC 121	Law Enforcement Operations	3-0-3
CJC 141	Corrections	3-0-3
COE 111	Co-op Work Experience I	0-10-1
COE 115	Work Experience Seminar I	1-0-1
COM 130	Nonverbal Communication	3-0-3
COM 140	Intercultural Communication	3-0-3
CSC 134	C++ Programming	2-3-3
CSC 151	JAVA Programming	2-3-3
DRA 124	Readers Theatre	3-0-3
DRA 130	Acting I	0-6-3
DRA 170	Play Production I	0-9-3
DRA 171	Play Production II	0-9-3
ENG 111A	Expository Writing Lab	0-2-1
ENG 125	Creative Writing I	3-0-3
ENG 126	Creative Writing II	3-0-3
ENG 273	African American Literature	3-0-3
HEA 110	Personal Health/Wellness	3-0-3
HIS 151	Hispanic Civilization	3-0-3
HIS 222	African-American History I	3-0-3
HIS 223	African-American History II	3-0-3
HIS 226	The Civil War	3-0-3
HIS 236	North Carolina History	3-0-3
HUM 180	International Cultural Explor	2-3-3
MAT 141	Mathematical Concepts I	3-0-3
MAT 142	Mathematical Concepts II	3-0-3
MAT 161	College Algebra	3-0-3
MAT 162	College Trigonometry	3-0-3

MAT 210	Logic	3-0-3
MAT 280	Linear Algebra	3-0-3
MAT 285	Differential Equations	3-0-3
PED 110	Fit and Well for Life	1-2-2
PED 113	Aerobics I	0-3-1
PED 114	Aerobics II	0-3-1
PED 115	Step Aerobics I	0-3-1
PED 116	Step Aerobics II	0-3-1
PED 117	Weight Training I	0-3-1
PED 118	Weight Training II	0-3-1
PED 121	Walk, Jog, Run	0-3-1
PED 128	Golf-Beginning	0-2-1
PED 130	Tennis-Beginning	0-2-1
PED 139	Bowling-Beginning	0-2-1
PED 143	Volleyball-Beginning	0-2-1
PED 145	Basketball-Beginning	0-2-1
PED 148	Softball	0-2-1
PED 149	Flag Football	0-2-1
PED 152	Swimming-Beginning	0-2-1
PED 155	Water Aerobics	0-3-1
PED 160	Canoe-Basic	0-2-1
PED 254	Coaching Basketball	1-2-2
POL 130	State and Local Government	3-0-3
PSY 246	Adolescent Psychology	3-0-3
SOC 232	Social Context of Aging	3-0-3
SPA 141	Culture and Civilization	3-0-3
SPA 151	Hispanic Literature	3-0-3
SPA 161	Cultural Immersion	3-0-3

Total Semester Hours Credit Required for Graduation: 64-65

NOTE:

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.

If a student completed the ENG 111 requirement at an institution that does not require four semester hours of first-level English, the fourth hour is waived and the student may graduate with 64 semester hours total credit. Conversely, if a student is required to take ENG 111A at an institution that does require four semester hours of first-level English (as does Central Carolina Community College), that student must complete 65 semester hours total credit to graduate.

Suggested Semester Curriculum for Associate in Science Degree

1st Semester (Fall)

ENG 111	Expository Writing	3-0-3
ENG 111A	Expository Writing Lab	0-2-1
	Natural Science Course/Lab (First in Sequence)	3-3-4

Required History Course	3-0-3
Approved Introduction Math Course	3/4-0-3/4
Required Physical Education elective	0-2-1
	12/13-7-15/16

2nd Semester (Spring)

ENG 112	Argument-Based Research	3-0-3
	OR	
ENG 113	Literature-Based Research	
	OR	
ENG 114	Professional Research and Reporting	
	Natural Science Course and Lab	3-3-4
	(Second in Sequence)	
	Approved Social/Behavioral Course	3-0-3
	Required Math Course	3-0-3
	Approved Elective	3-0-3
		15-3-16

3rd Semester (Fall)

Required Literature Course	3-0-3
Approved Humanities/Fine Arts	3-0-3
Required Physical Education Elective	0-2-1
Approved Social/Behavioral Science Course	3-0-3
Required Math/Science Course	3/4-0/3-3/4
Required Math/Science Course	3/4-0/3-3/4
	15/16-2/8-16/17

4th Semester (Spring)

Approved Humanities/Fine Arts Course	3-0-3
Required Math/Science Course	3/4-0/3-3/4
Required Math/Science Course	3/4-0/3-3/4
Required Math/Science Course	3/4-0/3-3/4
Required Math/Science Course	3/4-0/3-3/4
	15/16-0/12-15/16

Total Semester Hours Credit: 64/65

Diploma of Transfer Readiness D1040000

This diploma is issued upon the successful completion of the Associate in Science (AS) general education core. The Comprehensive Articulation Agreement (CAA) states that students completing the general education transfer core will be considered to have fulfilled the institution-wide, lower division general education requirements of the receiving institution. This diploma shall include a minimum of 44 and a maximum of 47 semester hours of general education core courses approved for transfer to The University of North Carolina constituent institutions.

Program Length: 3 semesters

Career Pathway Options: Associate in Arts or Associate in Science Degree; Baccalaureate Degree at a Senior Institution

Program Sites: Chatham Campus - Day and Selected Evening Courses; Harnett Campus - Day and Selected Evening Courses; Lee Campus - Day and Evening Programs; Distance Education

Biological and Chemical Technologies

Alternative Energy Technology Credential: Associate in Applied Science in Biofuels Technology A20130

This curriculum is designed to provide students with the educational foundation and technical skills necessary to obtain employment in the biofuels industry, or ability to create a new business dealing with biofuels.

Coursework includes general education, alternative energy resource management, chemistry, industrial safety, and an array of coursework specific to all sectors of the biofuels industry.

Graduates should qualify for numerous positions within the industry. Employment opportunities include, but are not limited to, plant technician plant manager, lab technician, sales manager, process coordinator, fuel purchaser, or business owner.

Program Length: 5 semesters

Career Pathway Options: Associate in Applied Science in Biofuels Technology

Program Sites: Pittsboro Campus

Course Requirements for Biofuels Technician Degree

A. General Education Courses (16 SHC)		C-L-SHC
ENG 111	Expository Writing	3-0-3
ENG 111A	Expository Writing Lab	0-2-1
*ENG 114	Professional Research & Reporting	3-0-3
	Humanities/Fine Arts Elective	3-0-3
**MAT 140	Survey of Mathematics	3-0-3
	Social/ Behavioral Science Elective	3-0-3
B. Required Major Core Classes (20 SHC)		
ALT 110	Biofuels I	3-0-3
ALT 120	Renewable Energy Technology	2-2-3
ALT 210	Biofuels II	3-2-4
ALT 211	Biofuels Analytics	2-4-4
ALT 230	Biofuels Waste Management	2-0-2
Chemistry (Select 4 SHC):		
CHM 131	Intro to Chemistry	3-0-3
CHM 131A	Intro to Chemistry Lab	0-2-1
CHM 151	General Chemistry I	3-3-4

*Students may substitute ENG 113.

** Students may substitute MAT 171.

C. Other Major Required Hours (32)		
CIS 110	Introduction to Computer	2-2-3
ELC 112	AC/DC Electricity	3-6-5
ISC 121	Environmental Health & Safety	3-0-3
MEC 110	Intro to CAD/CAM	1-2-2
MEC 130	Mechanisms	2-2-3