

## Developmental Courses

Blue Ridge Community College provides an opportunity for students to strengthen their basic educational background. Through a series of courses, instruction is provided to help the student overcome educational deficiencies that would likely prevent him/her from succeeding in an associate degree or diploma program. Developmental courses are offered in the areas of reading and vocabulary development, grammar and composition, keyboarding, and mathematics.

Incoming students are given a series of pre-enrollment placement tests to determine if any of these courses will be prerequisites to their related coursework. Students should take prerequisites in their first semester of enrollment if possible. Certain programs require that prerequisite courses be completed prior to fall enrollment. In addition, OST 131 – Keyboarding may be required if a student has little or no experience with the keyboard and cannot type at least 20 words per minute. For these students OST 131 is considered a developmental course notwithstanding the 100 level designation.

Developmental and prerequisite courses include:

BIO	090	Foundations of Biology
CHM	092	Fundamentals of Chemistry
ENG	080	Writing Foundations
ENG	090	Composition Strategies
MAT	060	Essential Mathematics
MAT	070	Introductory Algebra
MAT	080	Intermediate Algebra
OST	131	Keyboarding
RED	080	Introduction to College Reading
RED	090	Improved College Reading

A student must earn a “C” or better to progress to the next class.

## Language Prerequisite Courses

Students desiring to take French, German, or Spanish in their program of study may be required to take one of the prerequisite courses listed below. This requirement is waived if the student has completed one unit of high school French, German, or Spanish.

FRE	110	Introduction to French
GER	110	Introduction to German
SPA	110	Introduction to Spanish

## Electives

The Associate in Arts, Associate in Fine Arts, and Associate in Science elective listings are listed with the program description.

Associate in Applied Science: The following listings for Humanities Electives apply to Associate in Applied Science degree-seeking students. These electives should be carefully selected with the faculty advisor to ensure proper credit. Each program of study has specific courses that meet the humanities elective requirement.

## Humanities Electives

ART	111	Art Appreciation
ASL	111	Elementary ASL I*
DRA	111	Theatre Appreciation
ENG	231	American Literature I
ENG	232	American Literature II
ENG	233	Major American Writers
ENG	241	British Literature I
ENG	242	British Literature II
ENG	252	Western World Literature
ENG	262	World Literature II
HUM	110	Technology and Society
HUM	123	Appalachian Culture
MUS	110	Music Appreciation
PHI	210	History of Philosophy
PHI	230	Introduction to Logic
PHI	240	Introduction to Ethics
REL	110	World Religions

The following humanities electives are suggested only if the student has had an international language in high school. There is a prerequisite requirement to these courses. Students who have had one or more units of an International Language in high school with a grade of "C" or better usually can advance place.

FRE	111	Elementary French I
FRE	181	French I Lab*
GER	111	Elementary German I
GER	181	German I Lab*
SPA	111	Elementary Spanish I
SPA	181	Spanish I Lab*

Students who select an international language as the humanities elective will be required to take the Corequisite lab.

\* Denotes a Corequisite, course cannot be taken by itself.

## Social/Behavioral Science Electives

The following listing for Social/Behavioral Science Electives applies to Associate in Applied Science degree-seeking students. These electives should be carefully selected with the faculty advisor to ensure proper credit. Each program of study has specific courses that meet the social/behavioral science elective requirement.

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	120	American Government
POL	130	State and Local Government
PSY	150	General Psychology
SOC	210	Introduction to Sociology
SOC	213	Sociology of the Family
SOC	215	Group Processes
SOC	220	Social Problems

# Academic Programs Offered During the 2009-2010 Academic Year

## Accounting

Associate in Applied Science Degree.....	67
Certificate–Basic Accounting.....	68

## Air Conditioning, Heating and Refrigeration

Diploma .....	69
Certificate–Basic Technician .....	70
Certificate–Intermediate Technician .....	70
Certificate–Advanced Technician .....	70
Certificate–Commercial Refrigeration Service .....	71

## Associate Degree Nursing

Associate in Applied Science Degree.....	72
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## Autobody Repair

Diploma .....	74
Certificate–Basic .....	75
Certificate–Insurance Estimating.....	75
Certificate - Intermediate .....	75

## Automotive Restoration

Diploma .....	76
Certificate–Interior and Body.....	77
Certificate–Mechanical .....	77

## Automotive Systems Technology

Associate in Applied Science Degree.....	78
Diploma .....	79
Certificate–Electrical/Electronic.....	80
Certificate–Under Car.....	80

## Business Administration

Associate in Applied Science Degree.....	81
--	----

## Business Administration/Electronic Commerce

Associate in Applied Science Degree.....	83
--	----

## Business Administration/Marketing and Retailing

Associate in Applied Science Degree.....	85
Diploma .....	86

## Community Spanish Interpreter

Associate in Applied Science Degree.....	87
--	----

## Computer Information Technology

Associate in Applied Science Degree.....	89
Diploma .....	90
Certificate .....	91

**Computer Programming**

Associate in Applied Science Degree.....	92
Diploma .....	93
Certificate .....	94

**Cosmetology**

Associate in Applied Science Degree.....	95
Diploma .....	96
Certificate .....	97

**Cosmetology Instructor**

Certificate .....	97
-------------------	----

**Criminal Justice Technology**

Associate in Applied Science Degree.....	98
--	----

**Early Childhood Associate**

Associate in Applied Science Degree.....	100
Certificate–Early Childhood.....	101
Certificate–Infant and Toddler .....	102
Certificate–School Age .....	103
Certificate–Administration .....	103

**Electrical/Electronics Technology**

Diploma .....	105
Certificate–Basic .....	106
Certificate–Electrical Construction .....	106
Certificate–Industrial.....	106

**Electronics Engineering Technology**

Associate in Applied Science Degree.....	107
Certificate–Basic .....	109
Certificate–Advanced .....	109
Certificate - Industrial .....	110

**Environmental Science Technology**

Associate in Applied Science Degree.....	111
Diploma .....	113
Certificate .....	114

**Esthetics**

Certificate .....	115
-------------------	-----

**Esthetics Instructor**

Certificate .....	115
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**Film and Video Production Technology**

Associate in Applied Science Degree.....	116
--	-----

**Fire Protection Technology**

Associate in Applied Science Degree.....	118
--	-----

**General Education**

Associate in Applied Science Degree.....	120
--	-----

**General Occupational Technology**

Associate in Applied Science Degree..... 123

**Horticulture Technology**

Associate in Applied Science Degree..... 124

Diploma ..... 125

Certificate–Landscape Design ..... 126

Certificate–Landscape Management..... 126

Certificate–Ornamental Plant Production ..... 127

Certificate–Turfgrass Management ..... 127

**Interpreter Education**

Associate in Applied Science Degree..... 128

Diploma ..... 129

Certificate ..... 130

**Machining Technology**

Associate in Applied Science Degree..... 131

Diploma ..... 132

**Manicuring Instructor**

Certificate ..... 133

**Manicuring/Nail Technology**

Certificate ..... 134

**Mechanical Engineering Technology**

Associate in Applied Science Degree..... 135

Diploma ..... 137

**Networking Technology**

Associate in Applied Science Degree..... 139

Diploma ..... 141

**Office Administration**

Associate in Applied Science Degree..... 142

Diploma ..... 143

Diploma – Medical Office ..... 144

Certificate–Basic Office ..... 145

Certificate–Medical Office ..... 145

**Office Administration/Virtual Office Assistance**

Associate in Applied Science Degree..... 146

Diploma ..... 147

**Plumbing**

Certificate ..... 149

**School Age Education**

Associate in Applied Science Degree (Arts Track)..... 150

Associate in Applied Science Degree (Science Track)..... 152

**Simulation and Game Development**

Associate in Applied Science Degree..... 154

## **Surgical Technology**

Associate in Applied Science Degree.....	156
Diploma .....	157

## **Transfer Programs**

### Arts

Associate in Arts.....	158
Diploma-transfer Core.....	163
Pre-Major Articulation Agreements.....	166

### Fine Arts

Associate in Fine Arts – Art.....	167
Associate in Fine Arts – Drama.....	169
Associate in Fine Arts – Music .....	172

### Science

Associate in Science.....	175
Diploma-Transfer Core.....	181
Pre-Major Articulation Agreements.....	184

### Articulated Transfer Programs

Biotechnology.....	185
Dental Hygiene.....	187
Occupational Therapy Assistant.....	188
Physical Therapist Assistant .....	189

## **Web Technologies**

Associate in Applied Science Degree.....	190
Diploma .....	191
Certificate .....	192

## **Welding**

Diploma .....	193
Certificate–Basic Technician .....	194
Certificate–Intermediate Technician .....	194
Certificate–Artist Blacksmith.....	195

# Accounting

## Associate in Applied Science Degree

The Accounting curriculum is designed to provide students with the knowledge and the skills necessary for employment and growth in the accounting profession. Using the "language of business," accountants assemble and analyze, process, and communicate essential information about financial operations.

In addition to course work in accounting principles, theories, and practice, students will study business law, finance, management, and economics. Related skills are developed through the study of communications, computer applications, financial analysis, critical thinking skills, and ethics.

Graduates should qualify for entry-level accounting positions in many types of organizations including accounting firms, small businesses, manufacturing firms, banks, hospitals, school systems, and governmental agencies. With work experience and additional education, an individual may advance in the accounting profession.

This curriculum complies with the standard approved by the State Board of Community Colleges.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, ENG 090, RED 090, MAT 060, and/or MAT 070.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ACA	115	Success and Study Skill	0	2	0	0	1
ACC	120	Prin of Financial Accounting	3	2	0	0	4
BUS	110	Introduction to Business	3	0	0	0	3
CIS	110	Introduction to Computers	2	2	0	0	3
MAT	140	Survey of Mathematics	3	0	0	0	3
MAT	140A	Survey of Mathematics Lab*	0	2	0	0	1
		Subtotal					(15)
<b>Spring Semester</b>							
ACC	121	Prin of Managerial Accounting	3	2	0	0	4
ACC	140	Payroll Accounting	1	2	0	0	2
ECO	251	Principles of Microeconomics	3	0	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
		Humanities Elective**					3
		Subtotal					(15)
<b>Summer Semester</b>							
ACC	129	Individual Income Taxes	2	2	0	0	3
ACC	180	Practices in Bookkeeping	3	0	0	0	3
ENG	114	Prof. Research and Reporting	3	0	0	0	3
		Subtotal					(9)
<b>Fall Semester</b>							
ACC	130	Business Income Taxes	2	2	0	0	3
ACC	220	Intermediate Accounting I	3	2	0	0	4
BUS	115	Business Law I	3	0	0	0	3
CTS	130	Spreadsheet	2	2	0	0	3
		Major Course Elective***					3
		Subtotal					(16)

**Spring Semester**

ACC	150	Accounting Software Applications	1	2	0	0	2
ACC	227	Practices in Accounting	3	0	0	0	3
BUS	225	Business Finance	2	2	0	0	3
COE	111	Co-op Work Experience I	0	0	0	10	1
		Social/Behavioral Science Elective**					3
		Subtotal					(12)

\*Denotes a corequisite, course cannot be taken by itself.

\*\*Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on pages 61-62.

\*\*\*Major Course Electives are to be selected from the following:

BUS	116	Business Law II	3	0	0	0	3
BUS	153	Human Resource Management	3	0	0	0	3
BUS	228	Business Statistics	2	2	0	0	3
BUS	240	Business Ethics	3	0	0	0	3
BUS	280	REAL Small Business	4	0	0	0	4
DBA	110	Database Concepts	2	3	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	0	3
RLS	112	Broker Prelicensing	5	0	0	0	5

**Total Semester Credit Hours in Program ..... 67**

## Basic Accounting Certificate

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, and/or MAT 060.

			Class	Lab	Clinic	Work	Credit Exp.
<b>Fall Semester</b>							
ACC	120	Prin of Financial Accounting	3	2	0	0	4
ACC	131	Federal Income Taxes	3	2	0	0	3
CIS	110	Introduction to Computers	2	2	0	0	3
		Subtotal					(10)

**Spring Semester**

ACC	121	Prin of Managerial Accounting	3	2	0	0	4
ACC	140	Payroll Accounting	1	2	0	0	2
ACC	150	Accounting Software Application	1	2	0	0	2
		Subtotal					(8)

**Total Semester Credit Hours in Program ..... 18**

# Air Conditioning, Heating, and Refrigeration Technology Diploma

The Air Conditioning, Heating, and Refrigeration Technology curriculum provides the basic knowledge to develop skills necessary to work with residential and light commercial systems.

Topics include mechanical refrigeration, heating and cooling theory, electricity, controls, and safety. The diploma program covers air conditioning, furnaces, heat pumps, tools and instruments. Diploma graduates should be able to assist in the start up, preventive maintenance, service, repair, and/or installation of residential and light commercial systems.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, and/or MAT 060.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
AHR	110	Intro to Refrigeration	2	6	0	0	5
AHR	111	HVACR Electricity	2	2	0	0	3
AHR	112	Heating Technology	2	4	0	0	4
BPR	130	Blueprint Reading/Construction	1	2	0	0	2
MAT	101	Applied Mathematics I	2	2	0	0	3
		Subtotal					(18)

<b>Spring Semester</b>							
AHR	113	Comfort Cooling	2	4	0	0	4
AHR	114	Heat Pump Technology	2	4	0	0	4
AHR	115	Refrigeration Systems	1	3	0	0	2
AHR	130	HVAC Controls	2	2	0	0	3
ENG	102	Applied Communication II	3	0	0	0	3
		Major Course Elective***					4
		Subtotal					(20)

<b>Summer Semester</b>							
AHR	120	HVACR Maintenance	1	3	0	0	2
AHR	160	Refrigeration Certification	1	0	0	0	1
AHR	210	Residential Building Code	1	2	0	0	2
AHR	212	Adv Comfort Systems	2	6	0	0	4
		Subtotal					(9)

\*\*\*Major Course Electives are to be selected from the following:

AHR	125	HVAC Electronics	1	3	0	0	2
AHR	235	Refrigeration Design	2	2	0	0	3
BUS	280	REAL Small Business	4	0	0	0	4
COE	111	Co-op Work Experience I	0	0	0	10	1
COE	112	Co-op Work Experience I	0	0	0	20	2
COE	114	Co-op Work Experience I	0	0	0	40	4
COE	121	Co-op Work Experience II	0	0	0	10	1
COE	122	Co-op Work Experience II	0	0	0	20	2
COE	131	Co-op Work Experience III	0	0	0	10	1
COE	211	Co-op Work Experience IV	0	0	0	10	1

**Total Semester Credit Hours in Program ..... 47**

## Air Conditioning, Heating, and Refrigeration-Basic Technician Certificate

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, and/or MAT 060.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Required Courses</b>							
AHR	110	Intro to Refrigeration	2	6	0	0	5
AHR	111	HVACR Electricity	2	2	0	0	3
AHR	112	Heating Technology	2	4	0	0	4
BPR	130	Blue Print Reading/Const	1	2	0	0	2

**Total Semester Credit Hours in Program ..... 14**

## Air Conditioning, Heating, and Refrigeration-Intermediate Technician Certificate

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, and/or MAT 060.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Required Courses</b>							
AHR	113	Comfort Cooling	2	4	0	0	4
AHR	115	Refrigeration Systems	1	3	0	0	2
AHR	120	HVACR Maintenance	1	3	0	0	2
AHR	130	HVAC Controls	2	2	0	0	3
AHR	160	Refrigerant Certification	1	0	0	0	1

**Total Semester Credit Hours in Program ..... 12**

## Air Conditioning, Heating, and Refrigeration-Advanced Technician Certificate

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, and/or MAT 060.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Required Courses</b>							
AHR	114	Heat Pump Technology	2	4	0	0	4
AHR	125	HVAC Electronics	1	3	0	0	2
AHR	210	Residential Building Code	1	2	0	0	2
AHR	212	Adv Comfort Systems	2	6	0	0	4

**Total Semester Credit Hours in Program ..... 12**

## Air Conditioning, Heating, and Refrigeration-Commercial Refrigeration Service Certificate

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, and/or MAT 060.

	Class	Lab	Clinic	Work Exp.	Credit	
<b>Required Courses</b>						
AHR 110	Intro to Refrigeration	2	6	0	0	5
AHR 111	HVACR Electricity	2	2	0	0	3
AHR 115	Refrigeration Systems	1	3	0	0	2
AHR 235	Refrigeration Design	2	2	0	0	3

**Total Semester Credit Hours in Program ..... 13**

## Associate Degree Nursing

### Associate in Applied Science Degree

The Associate Degree Nursing curriculum provides knowledge, skills, and strategies to integrate safety and quality into nursing care, to practice in a dynamic environment, and to meet individual needs which impact health, quality of life, and achievement of potential.

Course work includes and builds upon the domains of healthcare, nursing practice, and the holistic individual. Content emphasizes the nurse as a member of the interdisciplinary team providing safe, individualized care which employing evidence-based practice, quality improvement, and informatics.

Graduates of this program are eligible to apply to take the National Council Examination (NCLEX-RN). Employment opportunities are vast within the global health care system and may include positions within acute, chronic, extended, industrial, and community health care facilities.

This curriculum complies with the standard approved by the State Board of Community Colleges. Special admission procedures for the Associate Degree Nursing program are outlined on page 12.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, ENG 090, RED 090, BIO 090, CHM 092, MAT 060, and MAT 070 . Prerequisite for admission may include MAT 140/MAT 140A if high school math is not a "C" average or above.

			Class	Lab	Clinic	Work	Credit
						Exp.	
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
BIO	165	Anatomy and Physiology I	3	3	0	0	4
ENG	111	Expository Writing	3	0	0	0	3
NUR	111	Intro To Health Concepts	4	6	6	0	8
		Subtotal					(16)
<b>Spring Semester</b>							
BIO	166	Anatomy and Physiology II	3	3	0	0	4
NUR	112	Health Illness Concepts	3	0	6	0	5
NUR	211	Health Care Concepts	3	0	6	0	5
PSY	150	General Psychology	3	0	0	0	3
		Subtotal					(17)
<b>Summer Semester</b>							
BIO	175	General Microbiology	2	2	0	0	3
NUR	114	Holistic Health Concepts	3	0	6	0	5
PSY	241	Developmental Psychology	3	0	0	0	3
		Subtotal					(11)
<b>Fall Semester</b>							
ENG	114	Professional Research and Reporting	3	0	0	0	3
NUR	113	Family Health Concepts	3	0	6	0	5
NUR	212	Health System Concepts	3	0	6	0	5
		Humanities Elective**					3
		Subtotal					(16)

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**Spring Semester**

NUR 213	Complex Health Concepts	4	3	15	0	10
	Subtotal					(10)

\*\*Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on pages 61-62.

**Total Semester Credit Hours in Program ..... 70**

## Autobody Repair Diploma

The Autobody Repair curriculum provides training in the use of equipment and materials of the autobody repair trade. The student studies the construction of the automobile body and techniques of autobody repairing, rebuilding, and refinishing.

The course work includes autobody fundamentals, industry overview, and safety. Students will perform hands-on repairs in the areas of non-structural and structural repairs, MIG welding, plastics and adhesives, refinishing, and other related areas.

Graduates of the curriculum should qualify for entry-level employment opportunities in the automotive body and refinishing industry. Graduates may find employment with franchised independent garages, or they may become self-employed.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, and/or MAT 060.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
AUB	111	Painting and Refinishing I	2	6	0	0	4
AUB	121	Non-Structural Damage I	1	4	0	0	3
AUB	134	Autobody MIG Welding	1	4	0	0	3
AUB	160	Body Shop Operations	1	0	0	0	1
AUB	162	Autobody Estimating	1	2	0	0	2
MAT	101	Applied Mathematics I	2	2	0	0	3
		Subtotal					(17)
<b>Spring Semester</b>							
AUB	112	Painting and Refinishing II	2	6	0	0	4
AUB	131	Structural Damage I	2	4	0	0	4
AUB	136	Plastics and Adhesives	1	4	0	0	3
CIS	110	Introduction to Computers	2	2	0	0	3
ENG	102	Applied Communications II	3	0	0	0	3
		Subtotal					(17)
<b>Summer Semester</b>							
AUB	114	Special Finishes	1	2	0	0	2
AUB	122	Non-Structural Damage II	2	6	0	0	4
AUB	132	Structural Damage II	2	6	0	0	4
		Subtotal					(10)
<b>Total Semester Credit Hours in Program .....</b>							<b>44</b>

## Autobody Repair - Basic Certificate

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include Learning Center Reading, English, and/or Math.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Required Courses</b>							
AUB	111	Painting and Refinishing I	2	6	0	0	4
AUB	112	Painting and Refinishing II	2	6	0	0	4
AUB	121	Non-Structural Damage I	1	4	0	0	3
AUB	122	Non-Structural Damage II	2	6	0	0	4

**Total Semester Credit Hours in Program ..... 15**

## Autobody Repair - Insurance Estimating Certificate

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include Learning Center Reading, English, and/or Math.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Required Courses</b>							
AUB	121	Non-Structural Damage I	1	4	0	0	3
AUB	131	Structural Damage I	2	4	0	0	4
AUB	160	Body Shop Operations	1	0	0	0	1
AUB	162	Autobody Estimating	1	2	0	0	2
BUS	280	REAL Small Business	4	0	0	0	4

**Total Semester Credit Hours in Program ..... 14**

## Autobody Repair - Intermediate Certificate

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include Learning Center Reading, English, and/or Math.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Required Courses</b>							
AUB	114	Special Finishes	1	2	0	0	2
AUB	131	Structural Damage I	2	4	0	0	4
AUB	132	Structural Damage II	2	6	0	0	4
AUB	134	Autobody MIG Welding	1	4	0	0	3

**Total Semester Credit Hours in Program ..... 13**

## Automotive Restoration Technology Diploma

The Automotive Restoration Technology curriculum is designed to prepare individuals with the competencies needed to work in the automotive restoration industry.

The course work includes research and application of information on specific components of a wide range of classic vehicles (1900 - 1970) such as internal combustion engines, transmissions, brakes, sheet metal, upholstery, starters, generators, and related systems.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, and/or MAT 060.

			Class	Lab	Clinic	Work	Credit
						Exp.	
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
ARS	101	Intro to Auto Restoration	2	0	0	0	2
ARS	107	Automotive Engines	1	3	0	0	2
ARS	131	Chassis and Drive Trains	2	3	0	0	3
ARS	161	Electrical Systems Fund	2	6	0	0	4
AUB	141	Mech/Elec Components I	2	2	0	0	3
MAT	101	Applied Mathematics I	2	2	0	0	3
		Subtotal					(18)
<b>Spring Semester</b>							
ARS	102	Auto Restoration Research	3	0	0	0	3
ARS	104	Restoration Skills I	2	4	0	0	4
ARS	108	Wood/Metal Restoration	2	2	0	0	3
ARS	134	Auto Restoration Welding	1	4	0	0	3
BUS	280	REAL Small Business	4	0	0	0	4
ENG	102	Applied Communication II	3	0	0	0	3
		Subtotal					(20)
<b>Summer Semester</b>							
ARS	103	Automobile Upholstery	2	4	0	0	4
ARS	105	Restoration Skills II	2	4	0	0	4
		Subtotal					(8)
<b>Total Semester Credit Hours in Program .....</b>							<b>46</b>

## Automotive Restoration Technology - Interior and Body Certificate

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include Learning Center Reading, English, and/or Math .

			Class	Lab	Clinic	Work Exp.	Credit
<b>Required Courses</b>							
ARS	103	Automobile Upholstery	2	4	0	0	4
ARS	104	Restoration Skills I	2	4	0	0	4
ARS	105	Restoration Skills II	2	4	0	0	4
ARS	108	Wood/Metal Restoration	2	2	0	0	3

**Total Semester Credit Hours in Program ..... 15**

## Automotive Restoration Technology - Mechanical Certificate

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include Learning Center Reading, English, and/or Math .

			Class	Lab	Clinic	Work Exp.	Credit
<b>Required Courses</b>							
ARS	101	Intro to Auto Restoration	2	0	0	0	2
ARS	102	Auto Restoration Research	3	0	0	0	3
ARS	107	Automotive Engines	1	3	0	0	2
ARS	134	Auto Restoration Welding	1	4	0	0	3
ARS	131	Chassis and Drive Trains	2	3	0	0	3
AUB	141	Mech/Elec Components I	2	2	0	0	3

**Total Semester Credit Hours in Program ..... 16**

## Automotive Systems Technology

### Associate in Applied Science Degree

The Automotive Systems Technology curriculum prepares individuals for employment as Automotive Service Technicians. It provides an introduction to automotive careers and increases student awareness of the challenges associated with this fast and ever-changing field.

Classroom and lab experiences integrate technical and academic course work. Emphasis is placed on theory, servicing and operation of brakes, electrical/electronic systems, engine performance, steering/suspension, automatic transmission/transaxles, engine repair, climate control, and manual drive trains. Upon completion of this curriculum, students should be prepared to take the ASE exam and be ready for full-time employment in dealerships and repair shops in the automotive service industry.

This curriculum complies with the standard approved by the State Board of Community Colleges.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, ENG 090, RED 090, MAT 060, and/or MAT 070.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
AUT	110	Intro to Auto Technology	2	2	0	0	3
AUT	151	Brake Systems	2	3	0	0	3
AUT	151A	Brake Systems Lab*	0	3	0	0	1
AUT	161	Basic Auto Electricity	4	3	0	0	5
AUT	186	PC Skills for Auto Techs	2	2	0	0	3
		Subtotal					(16)
<b>Spring Semester</b>							
AUT	141	Suspension & Steering Sys.	2	3	0	0	3
AUT	181	Engine Performance I	2	3	0	0	3
AUT	181A	Engine Performance I Lab*	0	3	0	0	1
CIS	110	Introduction to Computers	2	2	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
		Major Course Elective***					1
		Subtotal					(14)
<b>Summer Semester</b>							
AUT	171	Auto Climate Control	2	4	0	0	4
AUT	183	Engine Performance 2	2	6	0	0	4
MAT	121	Algebra and Trigonometry I	2	2	0	0	3
		Subtotal					(11)
<b>Fall Semester</b>							
AUT	116	Engine Repair	2	3	0	0	3
AUT	116A	Engine Repair Lab*	0	3	0	0	1
AUT	163	Adv. Auto Electricity	2	3	0	0	3
ENG	114	Prof Research and Reporting	3	0	0	0	3
		Humanities Elective**					3
		Social/Behavioral Science Elective**					3
		Major Course Elective***					1
		Subtotal					(17)

**Spring Semester**

AUT	221	Auto Transm / Transaxles	2	3	0	0	3
AUT	231	Man Trans/Axles/Drtrains	2	3	0	0	3
AUT	231A	Man Trans/Axles/Drtrains Lab*	0	3	0	0	1
AUT	284	Emerging Auto Technologies	2	6	0	0	4
		Major Course Elective***					1
		Subtotal					(12)

\*Denotes a corequisite, course cannot be taken by itself.

\*\*Humanities Electives and Social/Behavioral Science Electives are to be selected from the courses listed on pages 62-63.

\*\*\*Major Course Electives are to be selected from the following:

AUT	141A	Suspension & Steering Lab*	0	3	0	0	1
AUT	163A	Adv Auto Electricity Lab*	0	3	0	0	1
AUT	221A	Auto Transm / Transax Lab*	0	3	0	0	1
COE	111	Co-op Work Experience I	0	0	0	10	1
COE	121	Co-op Work Experience II	0	0	0	10	1
COE	131	Co-op Work Experience III	0	0	0	10	1

**Total Semester Credit Hours in Program ..... 70**

## Automotive Systems Technology Diploma

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include Learning Center Reading, English, and/or Math.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
AUT	110	Intro to Auto Technology	2	2	0	0	3
AUT	151	Brake Systems	2	3	0	0	3
AUT	151A	Brake Systems Lab*	0	3	0	0	1
AUT	161	Basic Auto Electricity	4	3	0	0	5
AUT	186	PC Skills for Auto Techs	2	2	0	0	3
		Subtotal					(16)
<b>Spring Semester</b>							
AUT	141	Suspension & Steering Sys.	2	3	0	0	3
AUT	181	Engine Performance I	2	3	0	0	3
AUT	181A	Engine Performance I Lab*	0	3	0	0	1
CIS	110	Introduction to Computers	2	2	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
		Major Course Elective***					1
		Subtotal					(14)
<b>Summer Semester</b>							
AUT	163	Adv. Auto Electricity	2	3	0	0	3
AUT	163A	Adv Auto Electricity Lab*	0	3	0	0	1
AUT	183	Engine Performance 2	2	6	0	0	4
MAT	121	Algebra and Trigonometry I	2	2	0	0	3
		Subtotal					(11)

\*Denotes a corequisite, course cannot be taken by itself.

\*\*\*Major Course Electives are to be selected from the following:

AUT	141A	Suspension & Steering Lab*	0	3	0	0	1
COE	111	Co-op Work Experience I	0	0	0	10	1

**Total Semester Credit Hours in Program ..... 41**

## Automotive Systems Technology - Electrical/Electronic Certificate

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include Learning Center Reading, English, and/or Math.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Required Courses</b>							
AUT	110	Intro to Auto Technology	2	2	0	0	3
AUT	161	Basic Auto Electricity	4	3	0	0	5
AUT	163	Adv. Auto Electricity	2	3	0	0	3
AUT	163A	Adv Auto Electricity Lab*	0	3	0	0	1
AUT	186	PC Skills for Auto Techs	2	2	0	0	3

**Total Semester Credit Hours in Program ..... 15**

\*Denotes a corequisite, course cannot be taken by itself.

## Automotive Systems Technology - Under Car Certificate

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include Learning Center Reading, English, and/or Math.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Required Courses</b>							
AUT	110	Intro to Auto Technology	2	2	0	0	3
AUT	141	Suspension & Steering Sys.	2	3	0	0	3
AUT	141A	Suspension & Steering Lab*	0	3	0	0	1
AUT	151	Brake Systems	2	3	0	0	3
AUT	151A	Brake Systems Lab*	0	3	0	0	1
AUT	186	PC Skills for Auto Techs	2	2	0	0	3

**Total Semester Credit Hours in Program ..... 14**

\*Denotes a corequisite, course cannot be taken by itself.

## Business Administration

### Associate in Applied Science Degree

The Business Administration curriculum is designed to introduce students to the various aspects of the free enterprise system. Students will be provided with a fundamental knowledge of business functions, processes, and an understanding of business organizations in today's global economy.

Course work includes business concepts such as accounting, business law, economics, management, and marketing. Skills related to the application of these concepts are developed through the study of computer applications, communication, team building, and decision-making.

Through these skills, students will have a sound business education base for lifelong learning. Graduates are prepared for employment opportunities in government agencies, financial institutions, and large to small business or industry.

This curriculum complies with the standard approved by the State Board of Community Colleges.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, ENG 090, RED 090, MAT 060, and/or MAT 070.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
ACC	120	Prin of Financial Accounting	3	2	0	0	4
BUS	110	Introduction to Business	3	0	0	0	3
CIS	110	Introduction to Computers	2	2	0	0	3
MAT	140	Survey of Mathematics	3	0	0	0	3
MAT	140A	Survey of Mathematics Lab*	0	2	0	0	1
		Subtotal					(15)
<b>Spring Semester</b>							
ACC	121	Prin of Managerial Accounting	3	2	0	0	4
BUS	137	Principles of Management	3	0	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
ECO	251	Principles of Microeconomics	3	0	0	0	3
		Humanities Elective**					3
		Subtotal					(16)
<b>Summer Semester</b>							
BUS	240	Business Ethics	3	0	0	0	3
ENG	114	Prof. Research and Reporting	3	0	0	0	3
		Social/Behavioral Science Elective**					3
		Subtotal					(9)
<b>Fall Semester</b>							
BUS	115	Business Law I	3	0	0	0	3
COE	111	Co-op Work Experience I	0	0	0	10	1
ECO	252	Principles of Macroeconomics	3	0	0	0	3
MKT	120	Principles of Marketing	3	0	0	0	3
		Major Course Elective***					3
		Subtotal					(13)

**Spring Semester**

ACC	140	Payroll Accounting	1	2	0	0	2
BUS	116	Business Law II	3	0	0	0	3
BUS	225	Business Finance	2	2	0	0	3
BUS	239	Business Applications Seminar	1	2	0	0	2
		Major Course Elective***					3
		Subtotal					(13)

\*Denotes a corequisite, course cannot be taken by itself.

\*\*Humanities Electives and Social/Behavioral Science Electives are to be selected from the courses listed on pages 62-63.

\*\*\*Major Course Electives are to be selected from the following:

ACC	131	Federal Income Taxes	2	2	0	0	3
ACC	150	Acct Software Appl	1	2	0	0	2
BUS	125	Personal Finance	3	0	0	0	3
BUS	153	Human Resource Management	3	0	0	0	3
BUS	228	Business Statistics	2	2	0	0	3
BUS	261	Diversity in Management	3	0	0	0	3
BUS	280	REAL Small Business	4	0	0	0	4
COE	121	Co-op Work Experience II	0	0	0	10	1
COE	122	Co-op Work Experience II	0	0	0	20	2
COE	123	Co-op Work Experience II	0	0	0	30	3
COE	124	Co-op Work Experience II	0	0	0	40	4
COE	131	Co-op Work Experience III	0	0	0	10	1
COE	132	Co-op Work Experience III	0	0	0	20	2
COE	212	Co-op Work Experience IV	0	0	0	20	2
CTS	130	Spreadsheet	2	2	0	0	3
ECM	210	Introduction to E-Commerce	2	2	0	0	3
RLS	112	Broker Prelicensing	5	0	0	0	5

**Total Semester Credit Hours in Program ..... 66**

## Business Administration/Electronic Commerce

### Associate in Applied Science Degree

Electronic Commerce is a concentration under the title of Business Administration. This curriculum is designed to prepare individuals for a career in the Internet economy.

Course work includes topics related to electronic commerce, Internet strategy in business, basic business principles in the world of E-Commerce. Students will be able to demonstrate the ability to identify and analyze such functional issues as planning, technical systems, marketing, security, finance, law, design, implementation, assessment and policy issues at an entry level.

Graduates from this program will have a sound business educational base for lifelong learning. Graduates are prepared for employment opportunities in government agencies, financial institutions, and small to medium size business or industry.

This curriculum complies with the standard approved by the State Board of Community Colleges.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, ENG 090, RED 090, MAT 060, and/or MAT 070.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
BUS	110	Introduction to Business	3	0	0	0	3
CIS	110	Introduction to Computers	2	2	0	0	3
WEB	110	Internet/Web Fundamentals	2	2	0	0	3
MAT	140	Survey of Mathematics	3	0	0	0	3
MAT	140A	Survey of Mathematics Lab*	0	2	0	0	1
		Subtotal					(14)
<b>Spring Semester</b>							
CTS	135	Integrated Software Intro	2	4	0	0	4
ENG	111	Expository Writing	3	0	0	0	3
ECM	168	Electronic Business	2	2	0	0	3
WEB	120	Intro to Internet Multimedia	2	2	0	0	3
WEB	140	Web Development Tools	2	2	0	0	3
		Subtotal					(16)
<b>Summer Semester</b>							
ECM	210	Introduction to E-Commerce	2	2	0	0	3
ENG	114	Prof. Research and Reporting	3	0	0	0	3
		Humanities Elective**					3
		Social/Behavioral Science Elective**					3
		Subtotal					(12)
<b>Fall Semester</b>							
ACC	120	Prin of Financial Accounting	3	2	0	0	4
BUS	115	Business Law I	3	0	0	0	3
ECM	220	E-Commerce Plan/Implementation	2	2	0	0	3
MKT	120	Principles of Marketing	3	0	0	0	3
		Subtotal					(13)

**Spring Semester**

BUS	137	Principles of Management	3	0	0	0	3
COE	111	Co-op Work Experience	0	0	0	10	1
ECM	230	Capstone Project	1	6	0	0	3
ECO	251	Principles of Microeconomics	3	0	0	0	3
		Major Course Elective ***					3
		Subtotal					(13)

\*Denotes a corequisite, course cannot be taken by itself.

\*\*Humanities Electives and Social/Behavioral Science Electives are to be selected from the courses listed on pages 62-63.

\*\*\*Major Course Electives are to be selected from the following:

BUS	228	Business Statistics	2	2	0	0	3
BUS	240	Business Ethics	3	0	0	0	3
CTS	235	Integrated Software Adv	2	4	0	0	4
COE	121	Co-op Work Experience II	0	0	0	10	1
COE	122	Co-op Work Experience II	0	0	0	20	2
COE	123	Co-op Work Experience II	0	0	0	30	3
CSC	139	Visual BASIC Programming	2	3	0	0	3
WEB	110	Internet/Web Fundamentals	2	2	0	0	3
WEB	115	Web Markup and Scripting	2	2	0	0	3
WEB	210	Web Design	2	2	0	0	3

**Total Semester Credit Hours in Program ..... 68**

## Business Administration/Marketing and Retailing

### Associate in Applied Science Degree

Marketing and Retailing is a concentration under the curriculum title of Business Administration. This curriculum is designed to provide students with fundamental skills in marketing and retailing. Course work includes marketing, retailing, merchandising, selling, advertising, computer technology, and management.

Graduates should qualify for marketing positions within manufacturing, retailing, and service organizations.

This curriculum complies with the standard approved by the State Board of Community Colleges.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, ENG 090, RED 090, MAT 060, and/or MAT 070.

			Class	Lab	Clinic	Work	Credit	
						Exp.		
<b>Fall Semester</b>								
ACA	115	Success and Study Skills	0	2	0	0	0	1
BUS	110	Introduction to Business	3	0	0	0	0	3
CIS	110	Introduction to Computers	2	2	0	0	0	3
ENG	111	Expository Writing	3	0	0	0	0	3
MKT	120	Principles of Marketing	3	0	0	0	0	3
		Subtotal						(13)
<b>Spring Semester</b>								
ACC	120	Principles of Financial Accounting	3	2	0	0	0	4
ENG	114	Prof. Research and Reporting	3	0	0	0	0	3
MAT	140	Survey of Mathematics	3	0	0	0	0	3
MAT	140A	Survey of Mathematics Lab*	0	2	0	0	0	1
MKT	123	Fundamentals of Selling	3	0	0	0	0	3
		Subtotal						(14)
<b>Summer Semester</b>								
MKT	122	Visual Merchandising	3	0	0	0	0	3
		Humanities Elective**						3
		Social/Behavioral Science Elective**						3
		Major Course Elective***						3
		Subtotal						(12)
<b>Fall Semester</b>								
BUS	115	Business Law I	3	0	0	0	0	3
WEB	115	Web Markup and Scripting	2	2	0	0	0	3
MKT	220	Advertising and Sales Promotion	3	0	0	0	0	3
MKT	222	Credit Procedures	3	0	0	0	0	3
MKT	226	Retail Applications	3	0	0	0	0	3
		Subtotal						(15)
<b>Spring Semester</b>								
ACC	150	Acct Software Application	1	2	0	0	0	2
COE	111	Co-op Work Experience	0	0	0	10	0	1
BUS	137	Principles of Management	3	0	0	0	0	3
ECO	251	Principles of Microeconomics	3	0	0	0	0	3
MKT	223	Customer Service	3	0	0	0	0	3
MKT	225	Marketing Research	3	0	0	0	0	3
		Subtotal						(15)

\*Denotes a corequisite, course cannot be taken by itself.

\*\*Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on pages 61-62.

\*\*\*Major Course Electives are to be selected from the following:

BUS	153	Human Resource Management	3	0	0	0	3
BUS	228	Business Statistics	2	2	0	0	3
BUS	261	Diversity in Management	3	0	0	0	3
COE	112	Co-op Work Experience I	0	0	0	20	2
COE	113	Co-op Work Experience I	0	0	0	30	3
COE	114	Co-op Work Experience I	0	0	0	40	4
COE	121	Co-op Work Experience II	0	0	0	10	1
COE	122	Co-op Work Experience II	0	0	0	20	2
COE	123	Co-op Work Experience II	0	0	0	30	3
COE	124	Co-op Work Experience II	0	0	0	40	4
COE	131	Co-op Work Experience III	0	0	0	10	1
COE	132	Co-op Work Experience III	0	0	0	20	2
ECM	210	Introduction to E-Commerce	2	2	0	0	3

**Total Semester Credit Hours in Program ..... 69**

## Business Administration/Marketing and Retailing Diploma

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, ENG 090, RED 090, MAT 060, and/or MAT 070.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
BUS	115	Business Law I	3	0	0	0	3
BUS	137	Principles of Management	3	0	0	0	3
CIS	110	Introduction to Computers	2	2	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
MKT	120	Principles of Marketing	3	0	0	0	3
		Subtotal					(16)
<b>Spring Semester</b>							
ACC	120	Prin of Financial Accounting	3	2	0	0	4
ECO	251	Principles of Microeconomics	3	0	0	0	3
MAT	140	Survey of Mathematics	3	0	0	0	3
MAT	140A	Survey of Mathematics Lab*	0	2	0	0	1
MKT	225	Marketing Research	3	0	0	0	3
		Subtotal					(14)
<b>Summer Semester</b>							
MKT	122	Visual Merchandising	3	0	0	0	3
MKT	220	Advertising and Sales Promotion	3	0	0	0	3
MKT	226	Retail Applications	3	0	0	0	3
		Subtotal					(9)

\*Denotes a corequisite, course cannot be taken by itself.

**Total Semester Credit Hours in Program ..... 39**

## Community Spanish Interpreter

### Associate in Applied Science Degree

The Community Spanish Interpreter curriculum prepares individuals to work as entry-level bilingual professionals who will provide communication access in interview and interactive settings. In addition, this curriculum provides educational training for working professionals who want to acquire Spanish language skills.

Course work includes the acquisition of Spanish: grammar, structure, and sociolinguistic properties, cognitive processes associated with interpretation between Spanish and English; the structure and character of the Hispanic community; and acquisition of communication skills.

Graduates should qualify for entry-level jobs as para-professional bilingual employees in educational systems or a variety of community settings. Individuals may choose from part-time, full-time, or self-employment/free-lance positions, or apply language skills to other human service related areas.

This curriculum complies with the standard approved by the State Board of Community Colleges.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, ENG 090, RED 090, MAT 060, MAT 070.

			Class	Lab	Clinic Exp.	Work	Credit
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
CIS	110	Introduction to Computers	2	2	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
SPA	111	Elementary Spanish I	3	0	0	0	3
SPA	181	Spanish I Lab*	0	2	0	0	1
SPI	113	Introduction to Spanish Interp.	3	0	0	0	3
		Humanities Elective**					3
		Subtotal					(17)
<b>Spring Semester</b>							
ENG	114	Professional Research and Reporting	3	0	0	0	3
MAT	140	Survey of Mathematics	3	0	0	0	3
MAT	140A	Survey of Mathematics Lab*	0	2	0	0	1
SPA	112	Elementary Spanish II	3	0	0	0	3
SPA	141	Culture and Civilization	3	0	0	0	3
SPA	182	Spanish Lab II*	0	2	0	0	1
		Subtotal					(14)
<b>Summer Semester</b>							
SPA	211	Intermediate Spanish I	3	0	0	0	3
SPA	281	Spanish Lab 3*	0	2	0	0	1
SPI	213	Review of Grammar	3	0	0	0	3
		Major Course Elective***					3
		Subtotal					(10)

**Fall Semester**

SPA 120	Spanish for the Workplace	3	0	0	0	3
SPA 161	Cultural Immersion	2	3	0	0	3
SPA 212	Intermediate Spanish II	3	0	0	0	3
SPA 282	Spanish Lab 4*	0	2	0	0	1
SPI 114	Analytical Skills for Spanish Int.	3	0	0	0	3
	Social/Behavioral Science Elective**					3
	Subtotal					(16)

**Spring Semester**

COE 111	Co-op Work Experience I	0	0	0	10	1
COE 115	Co-op Work Experience Seminar I	1	0	0	0	1
SPI 214	Introduction to Translation	3	0	0	0	3
SPA 215	Spanish Phonetics/Structure	3	0	0	0	3
SPA 221	Spanish Conversation	3	0	0	0	3
SPA 231	Reading and Composition	3	0	0	0	3
	Major Course Elective***					3
	Subtotal					(17)

\*Denotes a corequisite, course cannot be taken by itself.

\*\*Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on pages 61-62.

\*\*Major Course Elective hours are to be selected from the following:

BUS 110	Introduction to Business	3	0	0	0	3
BUS 115	Business Law I	3	0	0	0	3
BUS 153	Human Resource Management	3	0	0	0	3
COE 121	Co-op Work Experience II	0	0	0	10	1
COE 132	Co-op Work Experience III	0	0	0	20	2
EDU 216	Foundations of Education	3	2	0	0	4
EDU 131	Children, Family, and Community	3	0	0	0	3
PSY 244	Child Development I	3	0	0	0	3
PSY 245	Child Development II	3	0	0	0	3

**Total Semester Credit Hours in Program ..... 74**

# Computer Information Technology

## Associate in Applied Science Degree

The Computer Information Technology curriculum prepares graduates for employment with organizations that use computers to process, manage, and communicate information. This is a flexible curriculum that can be customized to meet community information systems needs.

Course work will develop a student's ability to communicate complex technical issues related to computer hardware, software, and networks in a manner that computer users can understand. Classes cover computer operations and terminology, operating systems, database, networking, security, and technical support.

Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies which rely on computer systems to manage information. Graduates should be prepared to sit for industry-recognized certification exams.

This curriculum complies with the standard approved by the State Board of Community Colleges.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, ENG 090, RED 090, MAT 060, and MAT 070.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
CIS	110	Introduction to Computers	2	2	0	0	3
CIS	115	Intro to Programming and Logic	2	2	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
MAT	140	Survey of Mathematics	3	0	0	0	3
MAT	140A	Survey of Mathematics Lab*	0	2	0	0	1
		Subtotal					(14)
<b>Spring Semester</b>							
CSC	139	Visual Basic Programming	2	3	0	0	3
DBA	110	Database Concepts	2	3	0	0	3
ENG	114	Prof Research and Reporting	3	0	0	0	3
NOS	110	Operating Systems Concepts	2	3	0	0	3
		Social/Behavioral Sciences Elective**					3
		Subtotal					(15)
<b>Summer Semester</b>							
NOS	130	Windows Single User	2	2	0	0	3
SEC	110	Security Concepts	3	0	0	0	3
		Major Course Elective***					3
		Subtotal					(9)
<b>Fall Semester</b>							
BUS	110	Introduction to Business	3	0	0	0	3
CTS	135	Integrated Software Intro	3	4	0	0	4
CTS	285	Systems Analysis and Design	3	0	0	0	3
NET	125	Networking Basics	1	4	0	0	3
		Humanities Elective**					3
		Subtotal					(16)

**Spring Semester**

CTS	120	Hardware/Software Support	2	3	0	0	3
CTS	235	Integrated Software Adv	2	4	0	0	4
CTS	289	System Support Project	1	4	0	0	3
NOS	230	Windows Administration I	2	2	0	0	3
		Subtotal					(13)

\*Denotes a corequisite, course cannot be taken by itself.

\*\*Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on pages 61-62.

\*\*\*Major Course Electives are to be selected from the following:

ACC	120	Prin of Financial Accounting	3	2	0	0	4
BUS	153	Human Resource Management	3	0	0	0	3
BUS	240	Business Ethics	3	0	0	0	3
COE	111	Co-op Work Experience I	0	0	0	10	1
COE	122	Co-op Work Experience II	0	0	0	20	2
CSC	134	C++ Programming	2	3	0	0	3
CSC	151	JAVA Programming	2	3	0	0	3
CSC	153	C# Programming	2	3	0	0	3
NOS	120	Linux/UNIX Single User	2	2	0	0	3
WEB	115	Web Markup and Scripting	2	2	0	0	3
WEB	140	Web Development Tools	2	2	0	0	3
WEB	250	Database Driven Websites	2	2	0	0	3

**Total Semester Credit Hours in Program ..... 67**

## Computer Information Technology Diploma

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, ENG 090, RED 090, MAT 060, and MAT 070.

			Class	Lab	Clinic	Work	Credit
						Exp.	
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
CIS	110	Introduction to Computers	2	2	0	0	3
CIS	115	Intro to Programming and Logic	2	2	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
MAT	140	Survey of Mathematics	3	0	0	0	3
MAT	140A	Survey of Mathematics Lab*	0	2	0	0	1
NET	125	Networking Basics	1	4	0	0	3
		Subtotal					(17)
<b>Spring Semester</b>							
CSC	139	Visual Basic Programming	2	3	0	0	3
CTS	120	Hardware/Software Support	2	3	0	0	3
DBA	110	Database Concepts	2	3	0	0	3
NOS	110	Operating Systems Concepts	2	3	0	0	3
		Major Course Elective ***					3
		Subtotal					(15)

**Summer Semester**

COE	111	Co-op Work Experience I	0	0	0	10	1
NOS	130	Windows Single User	2	2	0	0	3
SEC	110	Security Concepts	3	0	0	0	3
		Major Course Elective ***					3
		Subtotal					(10)

\*Denotes a corequisite, course cannot be taken by itself.

\*\*\*Major Course Electives are to be selected from the following:

COE	111	Co-op Work Experience I	0	0	0	10	1
COE	122	Co-op Work Experience II	0	0	0	20	2
CSC	134	C++ Programming	2	3	0	0	3
CSC	151	JAVA Programming	2	3	0	0	3
CSC	153	C# Programming	2	3	0	0	3
NOS	120	Linux/UNIX Single User	2	2	0	0	3
WEB	115	Web Markup and Scripting	2	2	0	0	3
WEB	140	Web Development Tools	2	2	0	0	3
WEB	250	Database Driven Websites	2	2	0	0	3

**Total Semester Credit Hours in Program ..... 42**

**Computer Information Technology  
Certificate**

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, ENG 090, RED 090, MAT 060, and MAT 070.

			Class	Lab	Clinic	Work	Credit
						Exp.	
<b>Fall Semester</b>							
CIS	110	Introduction to Computers	2	2	0	0	3
NET	125	Networking Basics	1	4	0	0	3
CIS	115	Intro to Prog & Logic	2	3	0	0	3
		OR					
NOS	110	Operating Systems Concepts	2	3	0	0	3
		Subtotal					(9)

**Spring Semester**

CTS	120	Hardware/Software Support	2	3	0	0	3
CTS	135	Integrated Software Intro	3	4	0	0	4
COE	111	Co-op Work Experience I	0	0	0	10	1
		Subtotal					(8)

**Total Semester Credit Hours in Program ..... 17**

## Computer Programming

### Associate in Applied Science Degree

The Computer Programming curriculum prepares individuals for employment as computer programmers and related positions through study and applications in computer concepts, logic, programming procedures, languages, generators, operating systems, networking, data management, and business operations.

Students will solve business computer problems through programming techniques and procedures, using appropriate languages and software. The primary emphasis of the curriculum is hands-on training in programming and related computer areas that provide the ability to adapt as systems evolve.

Graduates should qualify for employment in business, industry, and government organizations as programmers, programmer trainees, programmer/analysts, computer operators, systems technicians, or database specialists.

This curriculum complies with the standard approved by the State Board of Community Colleges.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, ENG 090, RED 090, MAT 060, and/or MAT 070.

	Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>					
ACA 115	Success and Study Skills	0	2	0	1
BUS 110	Introduction to Business	3	0	0	3
CIS 110	Introduction to Computers	2	2	0	3
CIS 115	Intro to Programming & Logic	2	2	0	3
ENG 111	Expository Writing	3	0	0	3
MAT 140	Survey of Mathematics	3	0	0	3
MAT 140A	Survey of Mathematics Lab*	0	2	0	1
	Subtotal				(17)
<b>Spring Semester</b>					
CSC 134	C++ Programming	2	3	0	3
CSC 139	Visual BASIC Programming	2	3	0	3
DBA 110	Database Concepts	2	3	0	3
NOS 110	Operating System Concepts	2	3	0	3
	Social/Behavioral Science Elective**				3
	Subtotal				(15)
<b>Summer Semester</b>					
CSC 234	Advanced C++ Programming	2	3	0	3
NOS 130	Windows Single User	2	2	0	3
SEC 110	Security Concepts	3	0	0	3
	Subtotal				(9)
<b>Fall Semester</b>					
CSC 151	JAVA Programming	2	3	0	3
CTS 285	Systems Analysis and Design	3	0	0	3
ENG 114	Prof. Research and Reporting	3	0	0	3
NET 125	Networking Basics	1	4	0	3
	Subtotal				(12)

**Spring Semester**

COE 111	Co-op Work Experience I	0	0	0	10	1
CSC 251	Adv JAVA Programming	2	3	0	0	3
CSC 289	Programming Capstone Project	1	4	0	0	3
	Humanities/Fine Arts Elective**					3
	Major Course Elective***					3
	Subtotal					(13)

\*Denotes a corequisite, course cannot be taken by itself.

\*\*Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on pages 61-62.

\*\*\*Major Course Electives are to be selected from the following:

BUS 228	Business Statistics	2	2	0	0	3
BUS 240	Business Ethics	3	0	0	0	3
COE 121	Co-op Work Experience II	0	0	0	10	1
COE 122	Co-op Work Experience II	0	0	0	20	2
COE 123	Co-op Work Experience II	0	0	0	30	3
CSC 135	COBOL Programming	2	3	0	0	3
CSC 153	C# Programming	2	3	0	0	3
CSC 239	Advanced Visual BASIC	2	3	0	0	3
MAT 175	Pre-calculus	4	0	0	0	4
MAT 175A	Pre-calculus Lab*	0	2	0	0	1
NOS 120	Linux/UNIX Single User	2	2	0	0	3
WEB 110	Internet/Web Fundamentals	2	2	0	0	3
WEB 115	Web Markup and Scripting	2	2	0	0	3
WEB 120	Intro to Internet Multimedia	2	2	0	0	3
WEB 140	Web Development Tools	2	2	0	0	3
WEB 182	PHP Programming	2	2	0	0	3

**Total Semester Credit Hours in Program ..... 66**

**Computer Programming  
Diploma**

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, ENG 090, RED 090, MAT 060, and/or MAT 070.

		Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>						
ACA 115	Success and Study Skills	0	2	0	0	1
CIS 110	Introduction to Computers	2	2	0	0	3
CIS 115	Intro to Programming & Logic	2	2	0	0	3
NET 125	Networking Basics	1	4	0	0	3
CSC 151	Java Programming	2	3	0	0	3
	Subtotal					(13)

**Spring Semester**

CSC 134	C++ Programming	2	3	0	0	3
CSC 139	Visual BASIC Programming	2	3	0	0	3
MAT 140	Survey of Mathematics	3	0	0	0	3
MAT 140A	Survey of Mathematics Lab*	0	2	0	0	1
NOS 110	Operating System Concepts	2	3	0	0	3
WEB 115	Web Markup and Scripting	2	2	0	0	3
	Subtotal					(16)

**Summer Semester**

ENG	111	Expository Writing	3	0	0	0	3
SEC	110	Security Concepts	3	0	0	0	3
WEB	215	Adv Markup and Scripting	2	2	0	0	3
		Subtotal					(9)

**Total Semester Credit Hours in Program ..... 38**

\*Denotes a corequisite, course cannot be taken by itself.

## Computer Programming Certificate

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, MAT 060, and/or MAT 070.

			Class	Lab	Clinic	Work	Credit
						Exp.	
<b>Fall Semester</b>							
CIS	110	Introduction to Computers	2	2	0	0	3
CIS	115	Intro to Programming & Logic	2	2	0	0	3
CSC	151	JAVA Programming	2	3	0	0	3
		Subtotal					(9)

**Spring Semester**

CSC	134	C++ Programming	2	3	0	0	3
CSC	139	Visual BASIC Programming	2	3	0	0	3
CSC	251	Adv Java Programming	2	3	0	0	3
		Subtotal					(9)

**Total Semester Credit Hours in Program ..... 18**

## Cosmetology

### Associate in Applied Science Degree

The Cosmetology curriculum is designed to provide competency-based knowledge, scientific/artistic principles, and hands-on fundamentals associated with the cosmetology industry. The curriculum provides a simulated salon environment that enables students to develop manipulative skills. Course work includes instruction in all phases of professional imaging, hair design, chemical processes, skin care, nail care, multi-cultural practices, business/computer principles, product knowledge, and other selected topics.

Graduates should qualify to sit for the State Board of Cosmetic Arts examination. Upon successfully passing the State Board exam, graduates will be issued a license. Employment is available in beauty salons and as skin/nail specialists, platform artists, and related businesses.

This curriculum complies with the standard approved by the State Board of Community Colleges.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, ENG 090, RED 090, MAT 060, and/or MAT 070.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
COS	111	Cosmetology Concepts I	4	2	0	0	4
COS	112	Salon I	0	24	0	0	8
		Subtotal					(12)
<b>Spring Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
COS	113	Cosmetology Concepts II	4	0	0	0	4
COS	114	Salon II	0	24	0	0	8
ENG	111	Expository Writing	3	0	0	0	3
		Subtotal					(16)
<b>Summer Semester</b>							
COS	115	Cosmetology Concepts III	4	0	0	0	4
COS	116	Salon III	0	12	0	0	4
COS	240	Contemporary Design	1	3	0	0	2
ENG	114	Profes Research and Reporting	3	0	0	0	3
		Subtotal					(13)
<b>Fall Semester</b>							
COS	117	Cosmetology Concepts IV	2	0	0	0	2
COS	118	Salon IV	0	21	0	0	7
COS	250	Computerized Salon Operations	1	2	0	0	1
MAT	140	Survey of Mathematics	3	0	0	0	3
MAT	140A	Survey of Mathematics Lab*	0	2	0	0	1
		Subtotal					(14)

**Spring Semester**

BUS	280	REAL Small Business	4	0	0	0	4
CIS	110	Introduction to Computers	2	2	0	0	3
		Humanities Elective**					3
		Social/Behavioral Science Elective**					3
		Major Course Elective***					3
		Subtotal					(16)

\*Denotes a corequisite, course cannot be taken by itself.

\*\*Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on pages 61-62.

\*\*\*Major Course Electives are to be selected from the following:

BUS	153	Human Resource Management	3	0	0	0	3
BUS	270	Professional Development	3	0	0	0	3
COS	121	Manicure/Nail Technology I	3	0	0	0	3

**Total Semester Credit Hours in Program ..... 71**

## Cosmetology Diploma

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, ENG 090, RED 090, and MAT 060.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
COS	111	Cosmetology Concepts I	4	0	0	0	4
COS	112	Salon I	0	24	0	0	8
		Subtotal					(12)

**Spring Semester**

ACA	115	Success and Study Skills	0	2	0	0	1
COS	113	Cosmetology Concepts II	4	0	0	0	4
COS	114	Salon II	0	24	0	0	8
ENG	111	Expository Writing	3	0	0	0	3
		Subtotal					(16)

**Summer Semester**

COS	115	Cosmetology Concepts III	4	0	0	0	4
COS	116	Salon III	0	12	0	0	4
COS	240	Contemporary Design	1	3	0	0	2
		Subtotal					(10)

**Fall Semester**

COS	117	Cosmetology Concepts IV	2	0	0	0	2
COS	118	Salon IV	0	21	0	0	7
ENG	114	Prof Research & Reporting	3	0	0	0	3
		Subtotal					(12)

**Total Semester Credit Hours in Program ..... 50**

## Cosmetology Certificate

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, and MAT 060.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
COS	111	Cosmetology Concepts I	4	0	0	0	4
COS	112	Salon I	0	24	0	0	8
Subtotal							(12)
<b>Spring Semester</b>							
COS	113	Cosmetology Concepts II	4	0	0	0	4
COS	114	Salon II	0	24	0	0	8
Subtotal							(12)
<b>Summer Semester</b>							
COS	115	Cosmetology Concepts III	4	0	0	0	4
COS	116	Salon III	0	12	0	0	4
COS	240	Contemporary Design	1	3	0	0	2
Subtotal							(10)
<b>Total Semester Credit Hours in Program .....</b>							<b>34</b>

## Cosmetology Instructor Certificate

The Cosmetology Instructor curriculum provides a course of study for learning the skills needed to teach the theory and practice of cosmetology as required by the North Carolina Board of Cosmetic Arts.

Course work includes requirements for becoming an instructor, introduction to teaching theory, methods and aids, practice teaching, and development of evaluation instruments.

Graduates of the program may be employed as cosmetology instructors in public or private education and business.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, and MAT 060.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
COS	271	Instructor Concepts I	5	0	0	0	5
COS	272	Instructor Practicum I	0	0	21	0	7
Subtotal							(12)
<b>Spring Semester</b>							
COS	273	Instructor Concepts II	5	0	0	0	5
COS	274	Instructor Practicum II	0	0	21	0	7
Subtotal							(12)
<b>Total Semester Credit Hours in Program .....</b>							<b>24</b>

## Criminal Justice Technology

### Associate in Applied Science Degree

The Criminal Justice Technology curriculum is designed to provide knowledge of criminal justice systems and operations. Study will focus on local, state, and federal law enforcement, judicial processes, corrections, and security services. The criminal justice system's role within society will be explored.

Emphasis is on criminal justice systems, criminology, juvenile justice, criminal and constitutional law, investigative principles, ethics, and community relations. Additional study may include issues and concepts of government, counseling, communications, computers, and technology.

Employment opportunities exist in a variety of local, state, and federal law enforcement, corrections, and security fields. Examples include police officer, deputy sheriff, county detention officer, state trooper, intensive probation/parole surveillance officer, correctional officer, and loss prevention specialist.

Students who have successfully completed a Basic Law Enforcement Training course accredited by the North Carolina Criminal Justice Education and Training Standards Commission and the North Carolina Sheriff's Education and Training Standards Commission and passed the Commission's comprehensive certificate examination will receive credit towards the Associate in Applied Science degree in Criminal Justice Technology.

This curriculum complies with the standard approved by the State Board of Community Colleges.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, ENG 090, RED 090, MAT 060, and/or MAT 070.

	Class	Lab	Clinic	Work Exp.	Credit	
<b>Fall Semester</b>						
ACA 115	Success and Study Skill	0	2	0	0	1
CIS 110	Introduction to Computers	2	2	0	0	3
CJC 111	Intro to Criminal Justice	3	0	0	0	3
CJC 231	Constitutional Law	3	0	0	0	3
ENG 111	Expository Writing	3	0	0	0	3
	Subtotal					(13)
<b>Spring Semester</b>						
CJC 112	Criminology	3	0	0	0	3
CJC 113	Juvenile Justice	3	0	0	0	3
CJC 131	Criminal Law	3	0	0	0	3
ENG 114	Prof. Research and Reporting	3	0	0	0	3
POL 130	State and Local Government	3	0	0	0	3
	Subtotal					(15)
<b>Summer Semester</b>						
PSY 150	General Psychology	3	0	0	0	3
	Humanities Elective**					3
	Social/Behavioral Science Elective**	3	0	0	0	3
	Subtotal					(9)

**Fall Semester**

CJC	151	Introduction to Loss Prevention	3	0	0	0	3
CJC	120	Interviews/Interrogations	1	2	0	0	2
CJC	132	Court Procedure & Evidence	3	0	0	0	3
MAT	140	Survey of Mathematics	3	0	0	0	3
MAT	140A	Survey of Mathematics Lab*	0	2	0	0	1
		Major Course Elective***					3
		Subtotal					(15)

**Spring Semester**

CJC	212	Ethics & Community Relations	3	0	0	0	3
CJC	221	Investigative Principles	3	2	0	0	4
CJC	255	Issue in Crim Justice App	3	0	0	0	3
COM	231	Public Speaking	3	0	0	0	3
		Major Course Elective***					3
		Subtotal					(16)

\*Denotes a corequisite, course cannot be taken by itself.

\*\*Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on pages 61-62.

\*\*\*Major Course Electives are to be selected from the following:

CJC	121	Law Enforcement Operations	3	0	0	0	3
CJC	122	Community Policing	3	0	0	0	3
CJC	141	Corrections	3	0	0	0	3
CJC	170	Critical Incident Management for Public Safety	3	0	0	0	3
CJC	213	Substance Abuse	3	0	0	0	3
CJC	215	Organization & Administration	3	0	0	0	3
CJC	244	Footwear and Tire Imprints	2	3	0	0	3
COE	111	Co-op Work Experience I	0	0	0	10	1
COE	112	Co-op Work Experience I	0	0	0	20	2
COE	113	Co-op Work Experience I	0	0	0	30	3
COE	114	Co-op Work Experience I	0	0	0	40	4
COE	121	Co-op Work Experience II	0	0	0	10	1
COE	122	Co-op Work Experience II	0	0	0	20	2
COE	123	Co-op Work Experience II	0	0	0	30	3
COE	124	Co-op Work Experience II	0	0	0	40	4
PYS	237	Social Psychology	3	0	0	0	3
SPA	120	Spanish for the Workplace	3	0	0	0	3

**Total Semester Credit Hours in Program ..... 68**

## Early Childhood Associate

### Associate in Applied Science Degree

The Early Childhood Associate curriculum prepares individuals to work with children from infancy through middle childhood in diverse learning environments. Students will combine learned theories with practice in actual settings with young children under the supervision of qualified teachers.

Course work includes child growth and development, physical/nutritional needs of children, care and guidance of children, and communication skills with parents and children. Students will foster the cognitive/language, physical/motor, social/emotional and creative development of young children.

Graduates are prepared to plan and implement developmentally appropriate programs in early childhood settings. Employment opportunities include child development and childcare programs, preschools, public and private schools, recreational centers, Head Start Programs, and school age programs.

Task Stream: Students who graduate from the program must complete an electronic portfolio in Task Stream <http://www.taskstream.com> to show competence in the NAEYC standards. Students will receive additional information about Task Stream when they enroll in the degree program.

This curriculum complies with the standard approved by the State Board of Community Colleges.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, ENG 090, RED 090, MAT 060, and/or MAT 070.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
EDU	119	Intro Early Childhood Education	4	0	0	0	4
CIS	110	Introduction to Computers	2	2	0	0	3
EDU	144	Child Development I	3	0	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
		Subtotal					(14)
<b>Spring Semester</b>							
EDU	131	Child, Family and Community	3	0	0	0	3
EDU	145	Child Development II	3	0	0	0	3
EDU	151	Creative Activities	3	0	0	0	3
ENG	114	Prof. Research and Reporting	3	0	0	0	3
		Major Course Elective***					3
		Subtotal					(15)
<b>Summer Semester</b>							
EDU	221	Children with Exceptionalities	3	0	0	0	3
		Humanities Elective**					3
		Social/Behavioral Science Elective**					3
		Subtotal					(9)

**Fall Semester**

COE 111	Co-op Work Experience I	0	0	0	10	1
EDU 126	Early Childhood Seminar I	2	0	0	0	2
EDU 146	Child Guidance	3	0	0	0	3
EDU 153	Health, Safety, Nutrition	3	0	0	0	3
MAT 140	Survey of Mathematics	3	0	0	0	3
MAT 140A	Survey of Mathematics Lab*	0	2	0	0	1
	Subtotal					(13)

**Spring Semester**

COE 121	Co-op Work Experience II	0	0	0	10	1
EDU 226	Early Childhood Seminar II	2	0	0	0	2
EDU 271	Educational Technology	2	2	0	0	3
EDU 280	Literacy Experiences	3	0	0	0	3
	Major Course Elective***					3
	Major Course Elective***					3
	Subtotal					(15)

\*Denotes a corequisite, course cannot be taken by itself.

\*\*Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on pages 61-62.

\*\*\*Major Course Electives are to be selected from the following:

BUS 110	Introduction to Business	3	0	0	0	3
BUS 153	Human Resource Management	3	0	0	0	3
BUS 280	REAL Small Business	4	0	0	0	4
EDU 186	Reading & Writing Methods	3	0	0	0	3
EDU 216	Foundations of Education	3	2	0	0	4
EDU 234	Infants, Toddlers and Twos	3	0	0	0	3
EDU 235	School Age Programs	2	0	0	0	2
EDU 261	Early Childhood Admin I	3	0	0	0	3
EDU 262	Early Childhood Admin II	3	0	0	0	3
EDU 275	Effective Teacher Training	2	0	0	0	2

**Total Semester Credit Hours in Program ..... 66**

**Early Childhood  
Certificate**

The Early Childhood Certificate is a concentration under the Early Childhood Associate. The certificate prepares individuals to work with children birth through middle childhood (age eight) in diverse learning environments. Course work includes child growth and development, physical/nutritional needs of young children, physical/ motor skills, social/emotional, and creative development.

Certificate graduates are prepared to plan and implement developmentally appropriate programs for infants and children through age eight. Employment opportunities include childcare programs, preschools, public and private schools. Head Start programs, developmental day programs, and school-age programs. Developmental courses for this program may include ENG 080, RED 080, and MAT 060.

		Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>						
EDU 119	Intro Early Childhood Education	4	0	0	0	4
EDU 146	Child Guidance	3	0	0	0	3
EDU 153	Health, Safety, Nutrition	3	0	0	0	3
	Subtotal					(10)

**Spring Semester**

EDU 151	Creative Activities	3	0	0	0	3
EDU 131	Child, Family and Community	3	0	0	0	3
	Subtotal					(6)

**Total Semester Credit Hours in Program ..... 16**

## Early Childhood - Infant and Toddler Certificate

The curriculum prepares individuals to work with children from infancy to three years of age in diverse learning environments. Students will combine learned theories, competency-based knowledge, and practice in actual settings with infants and toddlers.

Course work includes infant/toddler growth and development; physical/nutritional needs of infants and toddlers; safety issues in the care of infants and toddlers; care and guidance; communication skills with families and children; design and implementation of appropriate curriculum; and other related topics.

Graduates should be prepared to plan and implement developmentally appropriate infant/toddler programs in early childhood settings. Employment opportunities include positions in child development and child care programs, early intervention programs, preschools, public and private schools, recreational centers, Early Head Start programs, Nannies, and other infant/toddler programs, including home-childcare.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080 and 090, RED 080 and 090, and MAT 060. Students must meet pre-requisites for each course before enrolling.

		Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>						
EDU 119	Intro Early Childhood Education	4	0	0	0	4
EDU 144	Child Development I	3	0	0	0	3
EDU 153	Health, Safety and Nutrition	3	0	0	0	3
	Subtotal					(10)

**Spring Semester**

EDU 234	Infant, Toddler, and Twos	3	0	0	0	3
EDU 184	Early Childhood Intro Practicum	1	3	0	0	2
EDU 131	Child, Family and Community	3	0	0	0	3
	Subtotal					(8)

**Total Semester Credit Hours in Program ..... 18**

## Early Childhood Associate - School Age Certificate

The School Age Certificate is a concentration under the curriculum of Early Childhood Associate. This certificate prepares individuals to work with children from preschool to middle childhood in diverse learning environments. Course work includes child growth and development, physical and nutritional needs of children, care and guidance of children and communication strategies with parents, students and other educational professionals.

Certificate graduates are prepared to plan and implement developmentally appropriate programs in early childhood and a variety of out of school care settings. Graduates will be prepared to foster the cognitive/language, physical/motor, social/emotional and creative development of the children they teach.

Employment opportunities include child development and child care programs, preschools, public and private school age care programs, summer camps, recreation centers, Head Start programs and school-age programs.

Individuals completing this certificate with a C average or better will be eligible to apply for the North Carolina Division of Child Development School-Age Care Credential.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, ENG 090, RED 090, and MAT 060.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
EDU	163	Classroom Mgt. & Instruction	3	0	0	0	3
EDU	216	Foundations of Education	4	0	0	0	4
EDU	275	Effective Teacher Training	2	0	0	0	2
Subtotal							(9)
<b>Spring Semester</b>							
EDU	131	Child, Family and Community	3	0	0	0	3
EDU	145	Child Development II	3	0	0	0	3
EDU	235	School Age Develop & Programs	2	0	0	0	2
Subtotal							(8)
<b>Total Semester Credit Hours in Program .....</b>							<b>17</b>

## Early Childhood - Administration Certificate

The Early Childhood Administration Certificate program prepares graduates for positions in child care settings. Successful completers of all courses in the program will receive the College's Early Childhood Certificate. All courses taken for the certificate can be transferred into the Associate of Applied Science degree.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, ENG 090, RED 090, and MAT 060.

			Class	Lab	Clinic	Work	Credit
						Exp.	
<b>Fall Semester</b>							
EDU	119	Intro Early Childhood Education	4	0	0	0	4
EDU	261	Early Childhood Admin I	3	0	0	0	3
		Subtotal					(7)
<b>Spring Semester</b>							
BUS	153	Human Resource Management	3	0	0	0	3
EDU	262	Early Childhood Admin II	3	0	0	0	3
BUS	280	REAL Small Business	4	0	0	0	4
		Subtotal					(10)
<b>Total Semester Credit Hours in Program .....</b>							<b>17</b>

## Electrical/Electronics Technology Diploma

The Electrical/Electronics Technology curriculum is designed to provide training for persons interested in the installation and maintenance of electrical/electronic systems found in residential, commercial, and industrial facilities.

Training, most of which is hands-on, will include such topics as AC/DC theory, basic wiring practices, digital electronics, programmable logic controllers, industrial motor controls, the National Electric Code, and other subjects as local needs require. Graduates should qualify for a variety of jobs in the electrical/electronics field as an on-the-job trainee or apprentice, assisting in the layout, installation, and maintenance of electrical/electronic systems.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, and/or MAT 060.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
BPR	130	Blueprint Reading/Construction	1	2	0	0	2
ELC	112	DC/AC Electricity	3	6	0	0	5
ELC	113	Basic Wiring I	2	6	0	0	4
MAT	101	Applied Mathematics I	2	2	0	0	3
		Subtotal					(15)
<b>Spring Semester</b>							
BUS	280	REAL Small Business	4	0	0	0	4
ELC	114	Basic Wiring II	2	6	0	0	4
ELC	117	Motors and Controls	2	6	0	0	4
ELC	118	National Electric Code	1	2	0	0	2
ELC	125	Diagrams and Schematics	1	2	0	0	2
ENG	102	Applied Communication II	3	0	0	0	3
		Subtotal					(19)
<b>Summer Semester</b>							
ELC	115	Industrial Wiring	2	6	0	0	4
ELC	119	NEC Calculations	1	2	0	0	2
ELC	128	Introduction to PLC	2	3	0	0	3
		Subtotal					(9)
<b>Total Semester Credit Hours in Program .....</b>							<b>43</b>

## Electrical/Electronics Technology - Basic Certificate

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include Learning Center Reading, English, and/or Math.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Required Courses</b>							
BPR	130	Blueprint Reading/Construction	1	2	0	0	2
ELC	112	DC/AC Electricity	3	6	0	0	5
ELC	113	Basic Wiring I	2	6	0	0	4
ELC	118	National Electric Code	1	2	0	0	2

**Total Semester Credit Hours in Program ..... 13**

## Electrical/Electronics Technology – Electrical Construction Certificate

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include Learning Center Reading, English, and/or Math.

An Electrical/Electronics Technology - Basic Certificate is required for enrollment in the Electrical/Electronics Technology - Electrical Construction Certificate Program.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Required Courses</b>							
ELC	114	Basic Wiring II	2	6	0	0	4
ELC	117	Motors and Controls	2	6	0	0	4
ELC	119	NEC Calculations	1	2	0	0	2
ELC	125	Diagrams and Schematics	1	2	0	0	2

**Total Semester Credit Hours in Program ..... 12**

## Electrical/Electronics Technology - Industrial Certificate

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include Learning Center Reading, English, and/or Math.

An Electrical/Electronics Technology - Basic Certificate is required for enrollment in the Electrical/Electronics Technology - Industrial Certificate Program.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Required Courses</b>							
ELC	115	Industrial Wiring	2	6	0	0	4
ELC	117	Motors and Controls	2	6	0	0	4
ELC	125	Diagrams and Schematics	1	2	0	0	2
ELC	128	Introduction to PLC	2	3	0	0	3

**Total Semester Credit Hours in Program ..... 13**

# Electronics Engineering Technology

## Associate in Applied Science Degree

The Electronics Engineering Technology curriculum prepares individuals to become technicians who design, build, install, test, troubleshoot, repair, and modify developmental and production electronic components, equipment, and systems such as industrial/computer controls, manufacturing systems, communications systems, and power electronics systems.

A broad-based core of courses, including basic electricity, solid-state fundamentals, digital concepts, and microprocessors, ensures the student will develop the skills necessary to perform entry-level tasks. Emphasis is placed on developing the student's ability to analyze and troubleshoot electronic systems.

Graduates should qualify for employment as engineering assistants or electronic technicians with job titles such as electronics engineering technician, field service technician, maintenance technician, electronic tester, electronic systems integrator, bench technician, and production control technician.

This curriculum complies with the standard approved by the State Board of Community Colleges.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, ENG 090, RED 090, MAT 060, MAT 070, and/or MAT 080.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
DFT	151	CAD I	2	2	0	0	3
EGR	131	Intro to Electronics Tech	1	2	0	0	2
ELC	131	DC/AC Circuit Analysis	4	3	0	0	5
ELC	131A	DC/AC Circuit Analysis Lab*	0	3	0	0	1
		Either					
MAT	121	Algebra and Trigonometry I	2	2	0	0	3
		Or					
MAT	171	Pre-Calculus Algebra	3	0	0	0	3
		And					
MAT	171A	Pre-Calculus Algebra Lab*	0	2	0	0	1
		Subtotal					(15-16)
<b>Spring Semester</b>							
CIS	110	Introduction to Computers	2	2	0	0	3
ELC	117	Motors and Controls	2	6	0	0	4
ELC	127	Software for Technicians	1	3	0	0	2
ELN	131	Semiconductor Applications	3	3	0	0	4
		Either					
MAT	122	Algebra and Trigonometry II	2	2	0	0	3
		Or					
MAT	172	Pre-Calculus Trigonometry	3	0	0	0	3
		And					
MAT	172A	Pre-Calculus Trigonometry Lab*	0	2	0	0	1
		Subtotal					(16-17)

**Summer Semester**

ELC	128	Introduction to PLC	2	3	0	0	3
ELN	229	Industrial Electronics Humanities Elective**	3	3	0	0	4 3
		Subtotal					(10)

**Fall Semester**

ENG	111	Expository Writing	3	0	0	0	3
ELN	132	Linear IC Applications	3	3	0	0	4
ELN	133	Digital Electronics Social/Behavioral Science Elective**	3	3	0	0	4 3
		Subtotal					(14)

**Spring Semester**

ENG	114	Prof Research and Reporting	3	0	0	0	3
ELN	232	Intro to Microprocessors	3	3	0	0	4
		Either					
PHY	131	Physics - Mechanics	3	2	0	0	4
		Or					
PHY	151	College Physics I Major Course Elective***	3	2	0	0	4 5
		Subtotal					(16)

\*Denotes a corequisite, course cannot be taken by itself.

\*\*Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on pages 61-62.

\*\*\*Major Course Electives are to be selected from the following:

CIS	115	Introduction to Prog/Logic	3	3	0	0	4
COE	111	Co-op Work Experience I	0	0	0	10	1
COE	112	Co-op Work Experience I	0	0	0	20	2
COE	113	Co-op Work Experience I	0	0	0	30	3
COE	114	Co-op Work Experience I	0	0	0	40	4
COE	121	Co-op Work Experience II	0	0	0	10	1
COE	122	Co-op Work Experience II	0	0	0	20	2
COE	123	Co-op Work Experience II	0	0	0	30	3
COE	131	Co-op Work Experience III	0	0	0	10	1
COE	211	Co-op Work Experience IV	0	0	0	10	1
EGR	285	Design Project	0	4	0	0	2
ELN	234	Communication Systems	3	3	0	0	4
ELN	275	Troubleshooting	1	2	0	0	2
HYD	110	Hydraulics/Pneumatics	2	3	0	0	3
ISC	112	Industrial Safety	2	0	0	0	2
MEC	111	Machine Processes I	1	4	0	0	3
NOS	110	Operating System Concepts	2	3	0	0	3

**Total Semester Credit Hours in Program ..... 71-73**

## Electronics Engineering Technology - Basic Certificate

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, ENG 090, RED 080, RED 090, MAT 060, MAT 070, and/or MAT 080.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Required Courses</b>							
EGR	131	Intro to Electronics Tech	1	2	0	0	2
ELC	127	Software for Technicians	1	3	0	0	2
ELC	131	DC/AC Circuit Analysis	4	3	0	0	5
ELC	131A	DC/AC Circuit Analysis Lab*	0	3	0	0	1
ELN	131	Semiconductor Applications	3	3	0	0	4
Either							
MAT	121	Algebra and Trigonometry I	2	2	0	0	3
Or							
MAT	171	Pre-Calculus Algebra	3	0	0	0	3
And							
MAT	171A	Pre-Calculus Algebra Lab*	0	2	0	0	1

**Total Semester Credit Hours in Program ..... 17 - 18**

\*Denotes a corequisite, course cannot be taken by itself.

## Electronics Engineering Technology - Advanced Certificate

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, ENG 090, RED 080, RED 090, MAT 060, MAT 070, and/or MAT 080.

An Electronics Engineering Technology - Basic Certificate is required for enrollment in the Electronics Engineering - Advanced Certificate program.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Required Courses</b>							
ELN	132	Linear IC Applications	3	3	0	0	4
ELN	133	Digital Electronics	3	3	0	0	4
ELN	232	Intro to Microprocessors	3	3	0	0	4
ELN	275	Troubleshooting	1	2	0	0	2

**Total Semester Credit Hours in Program ..... 14**

## Electronics Engineering Technology - Industrial Certificate

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, ENG 090, RED 080, RED 090, MAT 060, MAT 070, and/or MAT 080.

An Electronics Engineering Technology - Basic Certificate is required for enrollment in the Electronics Engineering Technology - Industrial Certificate program.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Required Courses</b>							
ELC	117	Motors and Controls	2	6	0	0	4
ELC	128	Introduction to PLC	2	3	0	0	3
ELN	229	Industrial Electronics	3	3	0	0	4
ISC	112	Industrial Safety	2	0	0	0	2

**Total Semester Credit Hours in Program ..... 13**

## Environmental Science Technology

### Associate in Applied Science Degree

The Environmental Science Technology curriculum is designed to prepare individuals for employment in environmental testing/consulting and related industries. Major emphasis is placed on biological and chemical evaluation of man's impact on his environment.

Course work includes general education, computer applications, biology, chemistry, industrial safety, and an extensive array of detailed environmentally specific classes.

Graduates should qualify for numerous positions within the industry. Employment opportunities include, but are not limited to, the following: Chemical Analysis, Biological Analysis, Water/Wastewater Treatment, EPA Compliance Inspection, Hazardous Material Handling, Waste Abatement/Removal, and Contaminated Site Assessment/Remediation.

This curriculum complies with the standard approved by the State Board of Community Colleges.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, ENG 090, RED 090, BIO 090, CHM 092, MAT 060, MAT 070, and/or MAT 080.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
BIO	140	Environmental Biology	3	0	0	0	3
BIO	140A	Environmental Biology Lab*	0	3	0	0	1
CHM	131	Introduction to Chemistry	3	0	0	0	3
CHM	131A	Introduction to Chemistry Lab*	0	3	0	0	1
ENG	111	Expository Writing	3	0	0	0	3
	Either						
MAT	121	Algebra and Trigonometry I	2	2	0	0	3
	Or						
MAT	171	Pre-Calculus Algebra	3	0	0	0	3
MAT	171A	Pre-Calculus Algebra Lab*	0	2	0	0	1
		Subtotal					(15-16)
<b>Spring Semester</b>							
ENG	114	Professional Research/Reporting	3	0	0	0	3
CHM	132	Organic/Biochemistry	3	3	0	0	4
BIO	111	General Biology	3	3	0	0	4
PHS	130	Earth Science	3	2	0	0	4
		Subtotal					(15)
<b>Summer Semester</b>							
CIS	110	Introduction to Computers	2	2	0	0	3
BIO	175	General Microbiology	2	2	0	0	3
		Major Course Elective***					1-5
		Subtotal					(7-11)

**Fall Semester**

BIO	240	Management of Waste	3	0	0	0	3
EHS	114	OSHA Regulations	4	0	0	0	4
ENV	218	Environmental Health	3	0	0	0	3
		Humanities Elective**					3
		Major Course Elective***					3
		Subtotal					(16)

**Spring Semester**

ENV	214	Water Quality	3	2	0	0	4
ENV	222	Air Quality	3	2	0	0	4
ENV	226	Environmental Law	3	0	0	0	3
ENV	228	Environmental Issues	1	0	0	0	1
		Social /Behavioral Science Elective**	3	0	0	0	3
		Subtotal					(15)

\*Denotes a corequisite, course cannot be taken by itself.

\*\*Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on pages 61-62.

\*\*\*Major Course Electives are to be selected from the following:

BIO	112	General Biology II	3	3	0	0	4
BIO	120	Introductory Botany	3	3	0	0	4
BIO	130	Introductory Zoology	3	3	0	0	4
BIO	145	Ecology	3	3	0	0	4
BIO	163	Basic Anatomy and Physiology	4	2	0	0	5
BIO	175	General Microbiology	2	2	0	0	3
BIO	240	Management of Waste	3	0	0	0	3
COE	111	Co-op Work Experience I	0	0	0	10	1
COE	112	Co-op Work Experience I	0	0	0	20	2
COE	113	Co-op Work Experience I	0	0	0	30	3
EHS	215	Incident Management	3	2	0	0	4
ENV	218	Environmental Health	3	0	0	0	3
ENV	222	Air Quality	3	2	0	0	4
ENV	226	Environmental Law	3	0	0	0	3
ENV	230	Energy Resource Management	3	2	0	0	4

**Total Semester Credit Hours in Program ..... 64-76**

## Environmental Science Technology Diploma

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, ENG 090, RED 090, CHM 092, MAT 060, MAT 070, and/or MAT 080.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
BIO	140	Environmental Biology	3	0	0	0	3
BIO	140A	Environmental Biology Lab*	0	3	0	0	1
CHM	131	Introduction to Chemistry	3	0	0	0	3
CHM	131A	Introduction to Chemistry Lab*	0	3	0	0	1
EHS	114	OSHA Regulations	4	0	0	0	4
	Either						
MAT	121	Algebra and Trigonometry I	2	2	0	0	3
	Or						
MAT	171	Pre-Calculus Algebra	3	0	0	0	3
MAT	171A	Pre-Calculus Algebra Lab	0	2	0	0	1
		Subtotal					(15-16)
<b>Spring Semester</b>							
BIO	111	General Biology	3	3	0	0	4
ENG	111	Expository Writing	3	0	0	0	3
ENV	214	Water Quality	3	2	0	0	4
PHS	130	Earth Science	3	2	0	0	4
		Subtotal					(15)
<b>Summer Semester</b>							
CIS	110	Introduction to Computers	2	2	0	0	3
		Major Course Electives***					6-8
		Subtotal					(9-11)

\*Denotes a corequisite, course cannot be taken by itself.

\*\*\*Major Course Electives are to be selected from the following:

BIO	112	General Biology II	3	3	0	0	4
BIO	120	Introductory Botany	3	3	0	0	4
BIO	130	Introductory Zoology	3	3	0	0	4
BIO	145	Ecology	3	3	0	0	4
BIO	163	Basic Anatomy and Physiology	4	2	0	0	5
BIO	175	General Microbiology	2	2	0	0	3
BIO	240	Management of Waste	3	0	0	0	3
COE	111	Co-op Work Experience I	0	0	0	10	1
COE	112	Co-op Work Experience I	0	0	0	20	2
COE	113	Co-op Work Experience I	0	0	0	30	3
EHS	215	Incident Management	3	2	0	0	4
ENV	218	Environmental Health	3	0	0	0	3
ENV	222	Air Quality	3	2	0	0	4
ENV	226	Environmental Law	3	0	0	0	3

**Total Semester Credit Hours in Program ..... 36-38**

## Environmental Science Technology Certificate

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, ENG 090, RED 090, CHM 092, MAT 060, MAT 070, and/or MAT 080.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Required Courses</b>							
BIO	140	Environmental Biology	3	0	0	0	3
BIO	140A	Environmental Biology Lab*	0	3	0	0	1
EHS	114	OSHA Regulations	4	0	0	0	4
BIO	240	Management of Waste	3	0	0	0	3
EHS	215	Incident Management	3	2	0	0	4
ENV	226	Environmental Law	3	0	0	0	3

\*Denotes a corequisite, course cannot be taken by itself.

**Total Semester Credit Hours in Program ..... 18**

## Esthetics Technology Certificate

The Esthetics Technology curriculum provides competency-based knowledge, scientific/artistic principles and hands-on fundamentals associated with the art of skin care. The curriculum provides a simulated salon environment which enables students to develop manipulative skills. Course work includes instruction in all phases of professional Esthetics Technology, business/human relations, product knowledge, and other related topics. Graduates should be prepared to take the North Carolina Cosmetology State Board Licensing Exam and upon passing be licensed and qualify for employment in beauty and cosmetic/skin care salons, as a platform artist, and in related businesses.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, and MAT 060.

			Class	Lab	Clinic	Work	Credit	
			Exp.					
<b>Fall Semester</b>								
ACA	115	Success and Study Skills	0	2	0	0	1	
COS	119	Esthetics Concepts I	2	0	0	0	2	
COS	120	Esthetics Salon I	0	18	0	0	6	
Subtotal								(9)
<b>Spring Semester</b>								
COS	125	Esthetics Concepts II	2	0	0	0	2	
COS	126	Esthetics Salon II	0	18	0	0	6	
Subtotal								(8)
<b>Total Semester Credit Hours in Program .....</b>							<b>17</b>	

## Esthetics Instructor Certificate

The Esthetics Instructor curriculum provides a course of study covering the skills needed to teach the theory and practices of esthetics as required by the North Carolina State Board of Cosmetology. Course work includes all phases of esthetics theory laboratory instruction. Graduates should be prepared to take the North Carolina Cosmetology State Board Esthetics Instructor Licensing Exam and upon passing be qualified for employment in a cosmetology or esthetics school.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, and MAT 060.

			Class	Lab	Clinic	Work	Credit	
			Exp.					
<b>Fall Semester</b>								
COS	253	Esthetics Instructor Concepts I	6	15	0	0	11	
Subtotal								(11)
<b>Spring Semester</b>								
COS	254	Esthetics Instructor Concepts II	6	15	0	0	11	
Subtotal								(11)
<b>Total Semester Credit Hours in Program .....</b>							<b>22</b>	

## Film and Video Production Technology

### Associate in Applied Science Degree

The Film and Video Production Technology curriculum prepares students for entry-level employment in production support and selected technical areas of film, video, and associated media production. Instruction provides training for entry-level crew and/or production and post-production assistants in many moving image media forms.

The first year content includes exposure to the entire production process. Students are taught by industry professionals who provide extensive hands-on instruction. In the second year, students receive professional training by performing in various crew positions on actual production projects.

Graduates may find employment as entry-level crew and/or production assistants in feature and short films, commercials, and industrial, educational, and documentary productions. Other opportunities include entry-level employment in pre-production and post-production areas of film and video.

This curriculum complies with the standard approved by the State Board of Community Colleges.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, ENG 090, RED 090, MAT 060, and MAT 070.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ENG	111	Expository Writing	3	0	0	0	3
ACA	115	Success & Study Skills	2	0	0	0	1
FVP	111	Intro to Film & Video	2	3	0	0	3
FVP	112	Art Dept. Operations I	1	4	0	0	3
FVP	114	Camera & Lighting I	2	3	0	0	3
MAT	140	Survey of Mathematics Lab*	3	0	0	0	3
	Or						
MAT	161	College Algebra	3	0	0	0	3
	Or						
MAT	171	Precalculus Algebra	3	0	0	0	3
MAT	140A	Survey of Mathematics Lab*	0	2	0	0	1
	Or						
MAT	161A	College Algebra Lab*	0	2	0	0	1
	Or						
MAT	171A	Precalculus Algebra Lab*	2	0	0	0	1
		Subtotal					(17)
<b>Spring Semester</b>							
ENG	114	Professional Research and Reporting	3	0	0	0	3
FVP	115	Camera & Lighting II	2	3	0	0	3
FVP	116	Sound Operations	2	3	0	0	3
FVP	220	Editing I	2	3	0	0	3
		Social/Behavioral Science Elective**					3
		Subtotal					(15)

**Summer Semester**

CIS	110	Introduction to Computers	2	2	0	0	3
FVP	113	Grip & Electrical I	1	4	0	0	3
FVP	120	Art Dept. Operations II	1	4	0	0	3
		Subtotal					(9)

**Fall Semester**

FVP	130	Grip & Electrical II	1	4	0	0	3
FVP	212	Production Techniques I	1	12	0	0	5
FVP	221	Editing II	2	3	0	0	3
		Humanities Elective**					3
		Subtotal					(14)

**Spring Semester**

FVP	213	Production Techniques II	1	12	0	0	5
FVP	223	Postproduction Sound Design	1	4	0	0	3
FVP	215	Production Management	0	2	3	0	3
FVP	227	Multimedia Production	2	3	0	0	3
FVP	238	Software Apps for FVP	3	0	0	0	3
		Subtotal					(17)

\*Denotes a corequisite, course cannot be taken by itself.

\*\*Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on pages 61-62.

**Total Hours in the Program ..... 72**

## Fire Protection Technology

### Associate in Applied Science Degree

The Fire Protection Technology curriculum is designed to provide individuals with technical and professional knowledge to make decisions regarding fire protection for both public and private sectors. It also provides a sound foundation for continuous higher learning in fire protection, administration, and management.

Course work includes classroom and laboratory exercises to introduce the student to various aspects of fire protection. Students will learn technical and administrative skills such as hydraulics, hazardous materials, arson investigation, fire protection safety, fire suppression management, law, and codes.

Graduates should qualify for employment or advancement in governmental agencies, industrial firms, insurance rating organizations, educational organizations, and municipal fire departments. Employed persons should have opportunities for skilled and supervisory-level positions within their current organizations.

This curriculum complies with the standard approved by the State Board of Community Colleges.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, ENG 090, RED 090, MAT 060, and/or MAT 070.

			Class	Lab	Clinic	Work	Credit
						Exp.	
<b>Fall Semester</b>							
ACA	115	Success and Study Skill	0	2	0	0	1
CIS	110	Introduction to Computers	2	2	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
FIP	120	Intro to Fire Protection	3	0	0	0	3
FIP	124	Fire Prevention & Public Edu	3	0	0	0	3
FIP	128	Detection & Investigation	3	0	0	0	3
		Subtotal					(16)
<b>Spring Semester</b>							
ENG	114	Prof Research & Reporting	3	0	0	0	3
FIP	132	Building Construction	3	0	0	0	3
FIP	152	Fire Protection Law	3	0	0	0	3
FIP	220	Firefighting Strategies	3	0	0	0	3
MAT	140	Survey of Mathematics	3	0	0	0	3
MAT	140A	Survey of Mathematics Lab*	0	2	0	0	1
		Subtotal					(16)
<b>Summer Semester</b>							
COM	231	Public Speaking	3	0	0	0	3
FIP	248	Fire Service Personnel Admin	3	0	0	0	3
		Humanities/Fine Arts	3	0	0	0	3
		Subtotal					(9)

**Fall Semester**

FIP	164	OSHA Standards	3	0	0	0	3
FIP	221	Adv Firefighting Strategies	3	0	0	0	3
FIP	230	Chemistry of Hazardous Materials	5	0	0	0	5
		Major Course Elective ***	3	0	0	0	3
		Subtotal					(14)

**Spring Semester**

FIP	240	Fire Service Supervision	3	0	0	0	3
FIP	256	Municipal Public Relations	3	0	0	0	3
FIP	276	Managing Fire Service	3	0	0	0	3
PSY	150	General Psychology	3	0	0	0	3
		Major Course Elective ***	3	0	0	0	3
		Subtotal					(15)

\*Denotes a corequisite, course cannot be taken by itself.

\*\*Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on pages 61-62.

\*\*\*Major Course Electives are to be selected from the following:

FIP	136	Inspections & Codes	3	0	0	0	3
FIP	144	Sprinklers & Auto Alarms	2	2	0	0	3
FIP	224	Instructional Methodology	4	0	0	0	4
FIP	228	Local Government Finance	3	0	0	0	3
FIP	260	Fire Protect Planning	3	0	0	0	3
FIP	277	Fire and Social Behavior	3	0	0	0	3

**Total Semester Credit Hours in Program ..... 70**

## General Education

### Associate in General Education

The Associate in General Education curriculum is designed for the academic enrichment of students who wish to broaden their education, with emphasis on personal interest, growth and development.

Course work includes study in the areas of humanities and fine arts, social and behavioral sciences, natural sciences and mathematics, and English composition. Opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and the basic use of computers will be provided.

Through these skills, students will have a sound base for lifelong learning. Graduates are prepared for advancement within their field of interest and become better qualified for a wide range of employment opportunities.

This program is designed for students who wish to complete two years of college and are not planning to transfer to four-year institutions. Many of the courses may, however, transfer depending on the senior institution and the degree major on a course-by-course basis.

This curriculum complies with the standard approved by the State Board of Community Colleges.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, ENG 090, RED 090, BIO 090, CHM 092, MAT 060, MAT 070, and/or MAT 080.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Required General Education Courses</b>							
ENG	111	Expository Writing	3	0	0	0	3
ENG	113	Literature Based Research	3	0	0	0	3
		Or					
ENG	114	Professional Research/Reporting	3	0	0	0	3
		Subtotal					(6)

#### Humanities/Fine Arts

(Select 3 semester credit hours from the following)

ART	111	Art Appreciation	3	0	0	0	3
DRA	111	Theater Appreciation	3	0	0	0	3
ENG	231	American Literature I	3	0	0	0	3
ENG	232	American Literature II	3	0	0	0	3
ENG	233	Major American Writers	3	0	0	0	3
ENG	241	British Literature I	3	0	0	0	3
ENG	242	British Literature II	3	0	0	0	3
FRE	111	Elementary French I	3	0	0	0	3
FRE	181	French Lab I*	0	2	0	0	1
FRE	112	Elementary French II	3	0	0	0	3
FRE	182	French Lab II*	0	2	0	0	1
GER	111	Elementary German I	3	0	0	0	3
GER	181	German Lab I*	0	2	0	0	1
GER	112	Elementary German II	3	0	0	0	3
GER	182	German Lab II*	0	2	0	0	1
PHI	210	History of Philosophy	3	0	0	0	3
PHI	240	Introduction to Ethics	3	0	0	0	3

REL	110	World Religions	3	0	0	0	3
SPA	111	Elementary Spanish I	3	0	0	0	3
SPA	181	Spanish Lab I*	0	2	0	0	1
SPA	112	Elementary Spanish II	3	0	0	0	3
SPA	182	Spanish Lab II*	0	2	0	0	1
		Subtotal					(3)

### Social/Behavioral Sciences

(Select 3 semester credit hours from the following)

ECO	251	Principles of Microeconomics	3	0	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	0	3
GEO	111	World Regional Geography	3	0	0	0	3
GEO	130	World Physical Geography	3	0	0	0	3
HIS	131	American History I	3	0	0	0	3
HIS	132	American History II	3	0	0	0	3
POL	120	American Government	3	0	0	0	3
PSY	150	General Psychology	3	0	0	0	3
SOC	210	Introduction to Sociology	3	0	0	0	3
SOC	220	Social Problems	3	0	0	0	3
		Subtotal					(3)

### Mathematics/Natural Sciences

(Select at least 3 semester credit hours from the following)

AST	111	Descriptive Astronomy	3	0	0	0	3
AST	111A*	Descriptive Astronomy Lab I*	0	2	0	0	1
BIO	111	General Biology I	3	3	0	0	4
CHM	131	Introduction to Chemistry	3	0	0	0	3
CHM	131A*	Introduction to Chemistry Lab I*	0	2	0	0	1
CIS	110	Intro to Computers	2	2	0	0	3
MAT	140	Survey of Mathematics	3	0	0	0	3
MAT	140A*	Survey of Mathematics Lab*	0	2	0	0	1
MAT	151	Statistics I	3	0	0	0	3
MAT	151A*	Statistics I Lab*	0	2	0	0	1
MAT	171	Pre-Calculus Algebra	3	2	0	0	4
MAT	171A*	Pre-Calculus Algebra Lab*	0	2	0	0	1
PHY	151	College Physics I	3	2	0	0	4
		Subtotal					(3)

### Oral Communication

COM	231	Public Speaking	3	0	0	0	3
		Subtotal					(3)

### Other Required Hours (46-47 semester credit hours)

ACA	115	Success and Study Skills	0	2	0	0	1
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**Note:** ACA 115 - Success and Study Skills is a required course for all degree and diploma programs at BRCC but is not part of the Comprehensive Articulation Agreement for transferability. Students should take this course their first semester or in the semester required by their particular program. Students who are enrolled as special credit students should take this course before they have completed 12 semester hours.

Other required hours include additional general education and professional courses. Select courses from any associate degree program offered at Blue Ridge Community College. Prerequisites and Corequisites must be met.

A maximum of 7 semester credit hours from the following may be included:

HEA	112	First Aid & CPR	1	2	0	0	2
PED	110	Fit and Well for Life	1	2	0	0	2
PED	111	Physical Fitness I	0	3	0	0	1
PED	117	Weight Training I	0	2	0	0	1
PED	118	Weight Training II	0	2	0	0	1

PED	120	Walking for Fitness	0	3	0	0	1
PED	121	Walk, Jog, Run	0	3	0	0	1
PED	125	Self-Defense-Beginning	0	2	0	0	1
PED	128	Golf-Beginning	0	2	0	0	1
PED	130	Tennis-Beginning	0	2	0	0	1
PED	143	Volleyball-Beginning	0	2	0	0	1
PED	145	Basketball-Beginning	0	2	0	0	1
PED	147	Soccer	0	2	0	0	1
PED	148	Softball	0	2	0	0	1
PED	152	Swimming-Beginning	0	2	0	0	1
PED	160	Canoeing-Basic	0	2	0	0	1
PED	173	Rock Climbing	0	2	0	0	1
		Subtotal					(46-47)

\*Denotes a corequisite, course cannot be taken by itself.

**Total Semester Credit Hours in Program ..... 64-65**

## General Occupational Technology

### Associate in Applied Science Degree

The General Occupational Technology curriculum provides individuals with an opportunity to upgrade their skills and to earn an associate degree by taking courses suited for their occupational interests and/or needs.

The curriculum content will be individualized for students according to their occupational interests and needs. A program of study for each student will be selected from associate degree-level courses offered by the College.

Graduates will become more effective workers, better qualified for advancements within their field of employment, and become qualified for a wide range of entry-level employment opportunities.

This curriculum complies with the standard approved by the State Board of Community Colleges.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, ENG 090, RED 090, MAT 060, and/or MAT 070.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Required General Education Courses</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
ENG	111	Expository Writing	3	0	0	0	3
ENG	114	Prof Research and Reporting	3	0	0	0	3
MAT	121	Algebra and Trigonometry I	2	2	0	0	3
		Social/Behavioral Science Elective**					3
		Humanities Elective**					3
		Subtotal					(16)

#### Required Courses

18 credit hours from a combination of core courses for curriculums offered by Blue Ridge Community College.

#### Other Courses

(Choose one of the following for at least 3 credit hours)

BUS	280	REAL Small Business	4	0	0	0	4
CIS	110	Introduction to Computers	2	2	0	0	3

Twenty-nine additional credit hours must be chosen from courses required by curriculums offered by the college. Co-op is not an approved course for the General Occupational Technology Degree.

\*\*Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on pages 61-62.

**Total Semester Credit Hours in Program ..... 66-67**

## Horticulture Technology

### Associate of Applied Science Degree

The Horticulture Technology curriculum is designed to prepare individuals for various careers in horticulture. Classroom instruction and practical laboratory applications of horticultural principles and practices are included in the program of study.

Course work includes plant science, plant materials, propagation, soils, fertilizers, and pest management. Also included are courses in plant production, landscaping, and the management and operation of horticulture businesses.

Graduates should qualify for employment opportunities in nurseries, garden centers, greenhouses, landscape operations, gardens, and governmental agencies. Graduates should also be prepared to take the certified plant professional and licensed pesticide applicators examinations.

This curriculum complies with the standard approved by the State Board of Community Colleges.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, ENG 090, RED 090, MAT 060, and/or MAT 070.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
HOR	112	Landscape Design I	2	3	0	0	3
HOR	134	Greenhouse Operations	2	2	0	0	3
HOR	160	Plant Materials I	2	2	0	0	3
HOR	162	Applied Plant Science	2	2	0	0	3
MAT	121	Algebra and Trigonometry I	2	2	0	0	3
		Subtotal					(16)
<b>Spring Semester</b>							
CIS	110	Introduction to Computers	2	2	0	0	3
HOR	166	Soils and Fertilizers	2	2	0	0	3
HOR	213	Landscape Design II	2	2	0	0	3
HOR	235	Greenhouse Production	2	2	0	0	3
HOR	260	Plant Materials II	2	2	0	0	3
		Subtotal					(15)
<b>Summer Semester</b>							
HOR	164	Horticulture Pest Mgt	2	2	0	0	3
HOR	265	Advanced Plant Materials	1	2	0	0	2
		Either					
COE	112	Co-op Work Experience I	0	0	0	20	2
		Or					
LSG	123	Summer Gardening Lab	0	6	0	0	2
		Subtotal					(7)
<b>Fall Semester</b>							
ENG	111	Expository Writing	3	0	0	0	3
HOR	114	Landscape Construction	2	2	0	0	3
HOR	168	Plant Propagation	2	2	0	0	3
HOR	253	Horticulture Turfgrass	2	2	0	0	3
		Social/Behavioral Science Elective**					3
		Subtotal					(15)

**Spring Semester**

ENG	114	Prof Research and Reporting	3	0	0	0	3
HOR	116	Landscape Management	2	2	0	0	3
HOR	124	Nursery Operations	2	3	0	0	3
HOR	273	Horticulture Mgmt/Marketing	3	0	0	0	3
		Humanities Elective**					3
		Subtotal					(15)

\*\*Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on pages 61-62.

**Total Hours Required in Program ..... 68**

## Horticulture Technology Diploma

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, ENG 090, RED 090, and Learning Center Math.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
ENG	111	Expository Writing	3	0	0	0	3
HOR	160	Plant Materials I	2	2	0	0	3
HOR	162	Applied Plant Science	2	2	0	0	3
HOR	168	Plant Propagation	2	2	0	0	3
		Major Course Elective***					3
		Subtotal					(16)
<b>Spring Semester</b>							
HOR	166	Soils and Fertilizers	2	2	0	0	3
HOR	260	Plant Material II	2	2	0	0	3
		Major Course Electives***					6
		Social/Behavioral Science Elective**					3
		Subtotal					(15)
<b>Summer Semester</b>							
HOR	164	Horticulture Pest Mgt	2	2	0	0	3
HOR	265	Adv Plant Materials	1	2	0	0	2
		Major Course Elective***					2
		Subtotal					(7)

\*\*Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on pages 61-62.

\*\*\*Major Course Electives are to be selected from the following:

COE	112	Co-op Work Experience II	0	0	0	20	2
HOR	112	Landscape Design I	2	3	0	0	3
HOR	114	Landscape Construction	2	2	0	0	3
HOR	116	Landscape Management I	2	2	0	0	3
HOR	124	Nursery Operations	2	3	0	0	3
HOR	134	Greenhouse Operations	2	2	0	0	3
HOR	213	Landscape Design II	2	2	0	0	3
HOR	235	Greenhouse Production	2	2	0	0	3

HOR	253	Horticulture Turfgrass	2	2	0	0	3
HOR	273	Horticulture Mgmt and Marketing	3	0	0	0	3
LSG	123	Summer Gardening Lab	0	6	0	0	2

**Total Semester Credit Hours in Program ..... 38**

## Horticulture - Landscape Design Certificate

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include Learning Center Reading, English, and/or Math.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Required Courses</b>							
HOR	112	Landscape Design I	2	3	0	0	3
HOR	160	Plant Materials I	2	2	0	0	3
HOR	213	Landscape Design II	2	2	0	0	3
		Either					
HOR	114	Landscape Construction	2	2	0	0	3
		Or					
HOR	116	Landscape Management	2	2	0	0	3
		Or					
HOR	260	Plant Material II	2	2	0	0	3

**Total Semester Credit Hours in Program ..... 12**

## Horticulture - Landscape Management Certificate

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include Learning Center Reading, English, and/or Math.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Required Courses</b>							
HOR	116	Landscape Management I	2	2	0	0	3
HOR	160	Plant Materials I	2	2	0	0	3
HOR	164	Horticulture Pest Mgt	2	2	0	0	3
		Either					
HOR	166	Soils & Fertilizers	2	2	0	0	3
		Or					
HOR	253	Horticulture Turfgrass	2	2	0	0	3

**Total Semester Credit Hours in Program ..... 12**

## Horticulture - Ornamental Plant Production Certificate

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include Learning Center Reading, English, and/or Math.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Required Courses</b>							
	Either						
HOR	124	Nursery Operations	2	3	0	0	3
	Or						
HOR	134	Greenhouse Operations	2	2	0	0	3
HOR	168	Plant Propagation	2	2	0	0	3
HOR	235	Greenhouse Production	2	2	0	0	3
HOR	273	Hort Mgmt/Marketing	3	0	0	0	3

**Total Semester Credit Hours in Program ..... 12**

## Horticulture - Turfgrass Management Certificate

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include Learning Center Reading, English, and/or Math.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Required Courses</b>							
HOR	162	Applied Plant Science	2	2	0	0	3
HOR	164	Horticulture Pest Mgt	2	2	0	0	3
HOR	166	Soils & Fertilizers	2	2	0	0	3
HOR	253	Horticulture Turfgrass	2	2	0	0	3

**Total Semester Credit Hours in Program ..... 12**

## Interpreter Education

### Associate in Applied Science Degree

The Interpreter Education curriculum prepares individuals to work as entry-level Sign Language Interpreters who will provide communication access in interview and interactive settings. In addition, this curriculum provides in-service training for working interpreters who want to upgrade their skills.

Course work includes the acquisition of American Sign Language (ASL); grammar, structure, and sociolinguistic properties; cognitive processes associated with interpretation between ASL and English; the structure and character of the deaf community; and acquisition of consecutive and simultaneous interpreting skills.

Entry-level jobs for para-professional interpreters are available in educational systems or a variety of community settings. Individuals may choose from part-time, full-time, or self-employment/free-lance positions, or apply language skills to other human service related areas.

This curriculum complies with the standard approved by the State Board of Community Colleges.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, ENG 090, RED 090, MAT 060, and/or MAT 070.

			Class	Lab	Clinic	Work	Credit
						Exp.	
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
ASL	111	Elementary ASL I	3	0	0	0	3
ASL	181	ASL Lab 1*	0	2	0	0	1
CIS	110	Introduction to Computers	2	2	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
IPP	111	Introduction to Interpretation	2	0	0	0	2
IPP	113	Orientation to Deafness	2	0	0	0	2
		Subtotal					(15)
<b>Spring Semester</b>							
ASL	112	Elementary ASL II	3	0	0	0	3
ASL	182	ASL Lab 2*	0	2	0	0	1
IPP	112	Comparative Cultures	4	0	0	0	4
IPP	150	Linguistics of ASL	2	0	0	0	2
IPP	151	ASL Numbers & Fingerspell	0	2	0	0	1
MAT	140	Survey of Mathematics	3	0	0	0	3
MAT	140A	Survey of Mathematics Lab*	0	2	0	0	1
		Subtotal					(15)
<b>Summer Semester</b>							
ASL	211	Intermediate ASL I	3	0	0	0	3
ASL	281	ASL Lab 3*	0	2	0	0	1
ENG	114	Prof. Research and Reporting	3	0	0	0	3
IPP	152	ASL/English Translation	3	0	0	0	3
		Subtotal					(10)

**Fall Semester**

ASL	212	Intermediate ASL II	3	0	0	0	3
ASL	282	ASL Lab 4*	0	2	0	0	1
IPP	161	Consecutive Interpreting	2	6	0	0	5
IPP	224	ASL to English Interpret	1	3	0	0	2
		Social/Behavioral Science Elective**	3	0	0	0	3
		Major Course Elective***					3
		Subtotal					(17)

**Spring Semester**

COE	111	Co-op Work Experience I	0	0	0	10	1
COE	115	Work Experience Seminar I	1	0	0	0	1
IPP	221	Simultaneous Interpreting I	2	6	0	0	5
IPP	240	Ethical Standards & Practices	3	0	0	0	3
IPP	243	Religious Interpreting	1	2	0	0	2
		OR					
IPP	245	Educational Interpreting Issues	2	0	0	0	2
		Humanities Elective**					3
		Subtotal					(15)

\*Denotes a corequisite, course cannot be taken by itself.

\*\*Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on pages 61-62.

\*\*\*Major Course Electives are to be selected from the following:

BUS	110	Introduction to Business	3	0	0	0	3
COE	121	Co-op Work Experience II	0	0	0	10	1
COE	122	Co-op Work Experience II	0	0	0	20	2
COE	123	Co-op Work Experience II	0	0	0	30	3
EDU	119	Intro to Early Childhood Edu	4	0	0	0	4
IPP	193	Selected Topics/Interpreter Edu	3	0	0	0	3
MED	121	Medical Terminology I	3	0	0	0	3
SOC	213	Sociology of the Family	3	0	0	0	3
SOC	220	Social Problems	3	0	0	0	3

**Total Semester Credit Hours in Program ..... 72**

## Interpreter Education Diploma

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, ENG 090, RED 090, MAT 060, and/or MAT 070.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
ASL	111	Elementary ASL I	3	0	0	0	3
ASL	181	ASL Lab 1*	0	2	0	0	1
CIS	110	Introduction to Computers	2	2	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
IPP	111	Introduction to Interpretation	2	0	0	0	2
IPP	113	Orientation to Deafness	2	0	0	0	2
		Subtotal					(15)

**Spring Semester**

ASL	112	Elementary ASL II	3	0	0	0	3
ASL	182	ASL Lab 2*	0	2	0	0	1
COE	111	Co-op Work Experience I	0	0	0	10	1
IPP	112	Comparative Cultures	4	0	0	0	4
IPP	150	Linguistics of ASL	2	0	0	0	2
IPP	151	ASL Numbers & Fingerspell	0	2	0	0	1
		Subtotal					(12)

**Summer Semester**

ASL	211	Intermediate ASL I	3	0	0	0	3
ASL	281	ASL Lab 3*	0	2	0	0	1
IPP	152	ASL/English Translation	3	0	0	0	3
MAT	140	Survey of Mathematics	3	0	0	0	3
MAT	140A	Survey of Mathematics Lab*	0	2	0	0	1
		Subtotal					(11)

\*Denotes a corequisite, course cannot be taken by itself.

**Total Semester Credit Hours in Program ..... 38**

## Interpreter Education Certificate

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, and MAT 060.

**Fall Semester**

ASL	111	Elementary ASL I	3	0	0	0	3
ASL	181	ASL Lab 1*	0	2	0	0	1
IPP	111	Introduction to Interpretation	2	0	0	0	2
IPP	113	Orientation to Deafness	2	0	0	0	2
		Subtotal					(8)

**Spring Semester**

ASL	112	Elementary ASL II	3	0	0	0	3
ASL	182	ASL Lab 2*	0	2	0	0	1
COE	111	Co-op Work Experience I	0	0	0	10	1
IPP	112	Comparative Cultures	4	0	0	0	4
IPP	151	ASL Numbers & Fingerspell	0	2	0	0	1
		Subtotal					(10)

\*Denotes a corequisite, course cannot be taken by itself.

**Total Semester Credit Hours in Program ..... 18**

## Machining Technology

### Associate in Applied Science Degree

The Machining Technology curriculum is designed to develop skills in the theory and safe use of hand tools, power machinery, computerized equipment, and sophisticated precision inspection instruments.

Students will learn to interpret blueprints, set up manual and CNC machines, perform basic and advanced machining operations, and make decisions to ensure that work quality is maintained.

Employment opportunities for machining technicians exist in manufacturing industries, public institutions, governmental agencies, and in a wide range of specialty machining job shops.

This curriculum complies with the standard approved by the State Board of Community Colleges.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, ENG 090, RED 090, MAT 060, and/or MAT 070.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
ENG	111	Expository Writing	3	0	0	0	3
MAC	111	Machining Technology I	2	12	0	0	6
MAC	121	Intro to CNC	2	0	0	0	2
MAC	131	Blueprint Reading/Mach. I	1	2	0	0	2
MAC	151	Machining Calculations	1	2	0	0	2
MAT	121	Algebra and Trigonometry I	2	2	0	0	3
		Subtotal					(19)
<b>Spring Semester</b>							
CIS	110	Introduction to Computers	2	2	0	0	3
MAC	112	Machining Technology II	2	12	0	0	6
MAC	114	Intro to Metrology	2	0	0	0	2
MAC	122	CNC Turning	1	3	0	0	2
MAC	124	CNC Milling	1	3	0	0	2
MAC	132	Blueprint Reading/Mach. II	1	2	0	0	2
MAC	152	Advanced Machining Calculations	1	2	0	0	2
		Subtotal					(19)
<b>Summer Semester</b>							
MAC	113	Machining Technology III	2	12	0	0	6
		Subtotal					(6)
<b>Fall Semester</b>							
MAC	214	Machining Tech IV	2	12	0	0	6
MEC	110	Intro to CAD/CAM	1	2	0	0	2
		Humanities Elective**					3
		Social/Behavioral Science Elective**					3
		Subtotal					(14)

**Spring Semester**

ENG	114	Professional Research/Reporting	3	0	0	0	3
MAC	215	Machining Tech V	2	12	0	0	6
		Either					
MAC	222	Advanced CNC Turning	1	3	0	0	2
		Or					
COE	112	Co-op Work Experience I	0	0	0	20	2
MAC	224	Advanced CNC Milling	1	3	0	0	2
		Subtotal					(13)

\*\*Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on pages 61-62.

**Total Semester Credit Hours in Program ..... 71**

## Machining Technology Diploma

This curriculum complies with the standard approved by the State Board of Community Colleges.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, ENG 090, RED 090, MAT 060, and/or MAT 070.

			Class	Lab	Clinic	Work	Credit
						Exp.	
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
ENG	111	Expository Writing	3	0	0	0	3
MAC	111	Machining Technology I	2	12	0	0	6
MAC	121	Intro to CNC	2	0	0	0	2
MAC	131	Blueprint Reading/Mach I	1	2	0	0	2
MAC	151	Machining Calculations	1	2	0	0	2
		Either					
MAT	121	Algebra and Trigonometry I	2	2	0	0	3
		Or					
SOC	215	Group Processes	3	0	0	0	3
		Subtotal					(19)
<b>Spring Semester</b>							
CIS	110	Introduction to Computers	2	2	0	0	3
MAC	112	Machining Tech II	2	12	0	0	6
MAC	114	Intro to Metrology	2	0	0	0	2
MAC	122	CNC Turning	1	3	0	0	2
MAC	124	CNC Milling	1	3	0	0	2
MAC	132	Blueprint Reading/Mach II	1	2	0	0	2
MAC	152	Advanced Machining Calculations	1	2	0	0	2
		Subtotal					(19)
<b>Summer Semester</b>							
MAC	113	Machining Technology III	2	12	0	0	6
		Subtotal					(6)
<b>Total Semester Credit Hours in Program .....</b>							<b>44</b>

# Manicuring Instructor Certificate

The Manicuring Instructor curriculum provides a course of study covering the skills needed to teach the theory and practices of manicuring as required by the North Carolina State Board of Cosmetology.

Course work includes all phases of manicuring theory laboratory instruction.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, and MAT 060.

Graduates should be prepared to take the North Carolina Cosmetology State Board Manicuring Instructor Licensing Exam and upon passing be qualified for employment in a cosmetology or manicuring school.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
COS	251	Manicure Instructor Concepts	8	0	0	0	8
<b>Spring Semester</b>							
COS	252	Manicure Instructor Practicum	0	15	0	0	5
		Subtotal					(13)
<b>Total Semester Credit Hours in Program .....</b>							<b>13</b>

## Manicuring/Nail Technology Certificate

The Manicuring/Nail Technology curriculum provides competency-based knowledge, scientific/artistic principles, and hands-on fundamentals associated with the nail technology industry. The curriculum provides a simulated salon environment which enables students to develop manipulative skills.

Course work includes instruction in all phases of professional nail technology, business/computer principles, product knowledge, and other related topics.

Graduates should be prepared to take the North Carolina Cosmetology State Board Licensing Exam and upon passing be licensed and qualify for employment in beauty and nail salons, as a platform artist, and in related businesses.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, and MAT 060.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
CIS	110	Introduction to Computers	2	2	0	0	3
COS	121	Manicure/Nail Technology I	4	6	0	0	6
		Subtotal					(9)
<b>Spring Semester</b>							
BUS	270	Professional Development	3	0	0	0	3
COS	222	Manicure/Nail Technology II	4	6	0	0	6
		Subtotal					(9)
<b>Total Semester Credit Hours in Program .....</b>							<b>18</b>

# Mechanical Engineering Technology

## Associate in Applied Science Degree

The Mechanical Engineering Technology curriculum prepares graduates for employment as technicians in the diversified mechanical and manufacturing engineering fields. Mechanical Engineering technicians assist in design, development, testing, process design and improvement, troubleshooting and repair of engineering systems. Emphasis is placed on the integration of theory and hands-on application of engineering principles. In addition to course work in engineering graphics, engineering fundamentals, materials and manufacturing processes, mathematics, and physics, students will study computer applications, critical thinking, planning, and problem solving, and oral and written communications.

Graduates of the curriculum will find employment opportunities in the manufacturing or service sectors of engineering technology. Engineering technicians may obtain professional certification by application to organizations such as American Society for Quality Control (ASQC), National Institute for Certification in Engineering Technologies (NICET), and Society of Manufacturing Engineers (SME).

This curriculum complies with the standard approved by the State Board of Community Colleges.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, ENG 090, RED 090, MAT 060, MAT 070, and/or MAT 080.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
DFT	151	CAD I	2	2	0	0	3
EGR	150	Introduction to Engineering	1	2	0	0	2
ENG	111	Expository Writing	3	0	0	0	3
ISC	112	Industrial Safety	2	0	0	0	2
		Either					
MAT	121	Algebra and Trigonometry I	2	2	0	0	3
		Or					
MAT	171	Pre-Calculus Algebra	3	0	0	0	3
		And					
MAT	171A	Pre-Calculus Algebra Lab*	0	2	0	0	1
MEC	111	Machine Processes I	2	3	0	0	3
		Subtotal					(17-18)
<b>Spring Semester</b>							
DFT	152	CAD II	2	3	0	0	3
		Either					
MAT	122	Algebra and Trigonometry II	2	2	0	0	3
		Or					
MAT	172	Pre-Calculus Trigonometry	3	0	0	0	3
		And					
MAT	172A	Pre-Calculus Trigonometry Lab*	0	2	0	0	1
MEC	180	Engineering Materials	2	3	0	0	3
PHY	131	Physics – Mechanics	3	2	0	0	4
		Or					
PHY	151	College Physics I	3	2	0	0	4
WLD	212	Inert Gas Welding	1	2	0	0	2
		Subtotal					(15-16)

**Summer Semester**

ELC	111	Introduction to Electricity	2	3	0	0	3
ENG	114	Professional Research/Reporting	3	0	0	0	3
		Social/Behavioral Science Elective**					3
		Subtotal					(9)

**Fall Semester**

HYD	110	Hydraulics/Pneumatics	2	3	0	0	3
ISC	111	Quality Control	2	0	0	0	2
MEC	250	Statics & Strength of Materials	4	3	0	0	5
		Major Course Electives***					6
		Subtotal					(16)

**Spring Semester**

EGR	130	Engineering Cost Control	2	2	0	0	3
MEC	270	Machine Design	3	3	0	0	4
MEC	276	Capstone Design Project	0	3	0	0	1
		Humanities Elective**					3
		Major Course Elective***					3
		Subtotal					(14)

\*Denotes a corequisite, course cannot be taken by itself.

\*\*Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on pages 61-62.

\*\*\*Major Course Electives are to be selected from the following:

BUS	110	Introduction to Business	3	0	0	0	3
COE	111	Co-op Work Experience I	0	0	0	10	1
COE	112	Co-op Work Experience I	0	0	0	20	2
COE	113	Co-op Work Experience I	0	0	0	30	3
COE	114	Co-op Work Experience I	0	0	0	40	4
COE	121	Co-op Work Experience II	0	0	0	10	1
COE	122	Co-op Work Experience II	0	0	0	20	2
COE	123	Co-op Work Experience II	0	0	0	30	3
COE	131	Co-op Work Experience III	0	0	0	10	1
COE	132	Co-op Work Experience III	0	0	0	20	2
COE	211	Co-op Work Experience IV	0	0	0	10	1
COE	212	Co-op Work Experience IV	0	0	0	20	2
CSC	134	C++ Programming	3	2	0	0	3
DFT	254	Interme Solid Model/Render	2	3	0	0	3
ELC	128	Introduction to PLC	2	3	0	0	3
MAC	114	Introduction to Metrology	2	0	0	0	2
MAC	121	Intro to CNC	2	0	0	0	2
MEC	110	Introduction to CAD/CAM	1	2	0	0	2
MNT	111	Maintenance Practices	2	2	0	0	3
WLD	262	Inspection and Testing	2	2	0	0	3

**Total Semester Credit Hours in Program ..... 71-73**

# Mechanical Engineering Technology

## Diploma

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, ENG 090, RED 090, MAT 060, MAT 070, and/or MAT 080.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
DFT	151	CAD I	2	2	0	0	3
EGR	150	Introduction to Engineering	1	2	0	0	2
ISC	112	Industrial Safety	2	0	0	0	2
	Either						
MAT	121	Algebra and Trigonometry I	2	2	0	0	3
	Or						
MAT	171	Pre-Calculus Algebra	3	0	0	0	3
	And						
MAT	171A	Pre-Calculus Algebra Lab*	0	2	0	0	1
MEC	111	Machine Processes I	2	3	0	0	3
		Major Course Elective***					3
		Subtotal					(17-18)
<b>Spring Semester</b>							
DFT	152	CAD II	2	3	0	0	3
EGR	130	Engineering Cost Control	2	2	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
WLD	212	Inert Gas Welding	1	2	0	0	2
		Major Course Elective***					3
		Subtotal					(14)
<b>Summer Semester</b>							
ELC	111	Introduction to Electricity	2	3	0	0	3
ENG	114	Professional Research/Reporting	3	0	0	0	3
ISC	111	Quality Control	2	0	0	0	2
		Major Course Elective***					3
		Subtotal					(11)
*Denotes a corequisite, course cannot be taken by itself.							
***Major Course Electives are to be selected from the following: (Not more than 4 semester credit hours of COE classes.)							
BUS	110	Introduction to Business	3	0	0	0	3
COE	111	Co-op Work Experience I	0	0	0	10	1
COE	112	Co-op Work Experience I	0	0	0	20	2
COE	113	Co-op Work Experience I	0	0	0	30	3
COE	114	Co-op Work Experience I	0	0	0	40	4
COE	121	Co-op Work Experience II	0	0	0	10	1
COE	122	Co-op Work Experience II	0	0	0	20	2
COE	123	Co-op Work Experience II	0	0	0	30	3
COE	131	Co-op Work Experience III	0	0	0	10	1
COE	132	Co-op Work Experience III	0	0	0	20	2
COE	211	Co-op Work Experience IV	0	0	0	10	1
COE	212	Co-op Work Experience IV	0	0	0	20	2
CSC	134	C++ Programming	3	2	0	0	3

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ELC	128	Introduction to PLC	2	3	0	0	3
MAC	114	Intro to Metrology	2	0	0	0	2
MAC	121	Intro to CNC	2	0	0	0	2
MEC	110	Introduction to CAD/CAM	1	2	0	0	2
MNT	111	Maintenance Practices	2	2	0	0	3
WLD	262	Inspection and Testing	2	2	0	0	3

**Total Semester Credit Hours in Program ..... 42 – 43**

## Networking Technology

### Associate in Applied Science Degree Program

The Networking Technology curriculum prepares individuals for employment supporting network infrastructure environments. Students will learn how to use technologies to provide reliable transmission and delivery of data, voice, image, and video communications in business, industry, and education.

Course work includes design, installation, configuration, and management of network infrastructure technologies and network operating systems. Emphasis is placed on the implementation and management of network software and the implementation and management of hardware such as switches and routers. Graduates may find employment in entry-level jobs as local area network managers, network operators, network analysts, and network technicians. Graduates may also be qualified to take certification examinations for various network industry certifications, depending on their local program.

This curriculum complies with the standard approved by the State Board of Community Colleges.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, ENG 090, RED 090, MAT 060, and/or MAT 070.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
CIS	110	Introduction to Computers	2	2	0	0	3
CIS	115	Intro to Programming and Logic	2	2	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
MAT	140	Survey of Mathematics	3	0	0	0	3
MAT	140A	Survey of Mathematics Lab*	0	2	0	0	1
NET	125	Networking Basics	1	4	0	0	3
		Subtotal					(17)
<b>Spring Semester</b>							
DBA	110	Database Concepts	2	3	0	0	3
NET	126	Routing Basics	1	4	0	0	3
NOS	110	Operating System Concepts	2	3	0	0	3
		Humanities Elective**					3
		Social/Behavioral Elective**					3
		Subtotal					(15)
<b>Summer Semester</b>							
ENG	114	Prof. Research and Reporting	3	0	0	0	3
NOS	130	Windows Single User	2	2	0	0	3
SEC	110	Security Concepts	3	0	0	0	3
		Subtotal					(9)
<b>Fall Semester</b>							
BUS	110	Introduction to Business	3	0	0	0	3
CTS	120	Hardware/Software Support	2	3	0	0	3
NET	225	Routing and Switching I	1	4	0	0	3
NOS	120	Linux/UNIX Single User	2	2	0	0	3
		Subtotal					(12)

**Spring Semester**

COE 111	Co-op Work Experience	0	0	0	10	1
NET 226	Routing and Switching II	1	4	0	0	3
NET 289	Network Project	1	4	0	0	3
NOS 220	Linux/UNIX Administration I	2	2	0	0	3
	Major Course Elective***					3
	Subtotal					(13)

\*Denotes a corequisite, course cannot be taken by itself.

\*\*Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on pages 61-62.

\*\*\*Major Course Electives are to be selected from the following:

COE 121	Co-op Work Experience II	0	0	0	10	1
COE 122	Co-op Work Experience II	0	0	0	20	2
COE 123	Co-op Work Experience II	0	0	0	30	3
CSC 134	C++ Programming	2	3	0	0	3
CSC 139	Visual BASIC Programming	2	3	0	0	3
CSC 151	JAVA Programming	2	3	0	0	3
CSC 234	Adv C++ Programming	2	3	0	0	3
NET 175	Wireless Technology	2	2	0	0	3
NOS 221	Linux/UNIX Administration II	2	2	0	0	3
NOS 230	Windows Administration	2	2	0	0	3
SEC 160	Secure Administration I	2	2	0	0	3
WEB 110	Internet/ Web Fundamentals	2	2	0	0	3
WEB 115	Web Markup and Scripting	2	2	0	0	3
WEB 120	Intro to Internet Multimedia	2	2	0	0	3
WEB 140	Web Development Tools	2	2	0	0	3

**Total Semester Credit Hours in Program ..... 66**

## Networking Technology

### Diploma Program (D25340)

Developmental courses for this program may include CIS 070, ENG 080, RED 080, ENG 090, RED 090, MAT 060, and/or MAT 070

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
CIS	110	Introduction to Computers	2	2	0	0	3
CIS	115	Intro to Programming and Logic	2	2	0	0	3
NET	125	Networking Basics	2	2	0	0	3
WEB	110	Internet/ Web Fundamentals	2	2	0	0	3
		Subtotal					(13)
<b>Spring Semester</b>							
CSC	134	C++ Programming	2	3	0	0	3
DBA	110	Database Concepts	2	3	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
NET	126	Routing Basics	1	4	0	0	3
NOS	110	Operating System Concepts	2	3	0	0	3
		Subtotal					(15)
<b>Summer Semester</b>							
NOS	130	Windows Single User	2	2	0	0	3
SEC	110	Security Concepts	3	0	0	0	3
MAT	140	Survey of Mathematics	3	0	0	0	3
MAT	140A	Survey of Mathematics Lab*	0	2	0	0	1
		Subtotal					(10)

\*Denotes a corequisite, course cannot be taken by itself.

**Total Semester Credit Hours in Program ..... 38**

## Office Administration

### Associate in Applied Science Degree

The Office Administration curriculum prepares individuals for positions in administrative support careers. It equips office professionals to respond to the demands of a dynamic computerized workplace.

Students will complete courses designed to develop proficiency in the use of integrated software, oral and written communication, analysis and coordination of office duties and systems, and other support topics. Emphasis is placed on non-technical as well as technical skills. Graduates should qualify for employment in a variety of positions in business, government, and industry. Job classifications range from entry-level to supervisor to middle management.

This curriculum complies with the standard approved by the State Board of Community Colleges.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, ENG 090, OST 131, RED 090, MAT 060, and/or MAT 070.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
CIS	110	Introduction to Computers	2	2	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
MAT	140	Survey of Mathematics	3	0	0	0	3
MAT	140A	Survey of Mathematics Lab*	0	2	0	0	1
OST	134	Text Entry & Formatting	2	2	0	0	3
		Subtotal					(14)
<b>Spring Semester</b>							
ACC	120	Prin of Financial Accounting	3	2	0	0	4
CTS	125	Graphics Presentations	2	2	0	0	3
ENG	114	Prof. Research and Reporting	3	0	0	0	3
OST	136	Word Processing	2	2	0	0	3
		Major Course Elective ***	3	0	0	0	3
		Subtotal					(16)
<b>Summer Semester</b>							
OST	223	Admin Office Transcript I	2	2	0	0	3
OST	236	Advanced Word/Info. Process	2	2	0	0	3
OST	284	Emerging Technologies	1	2	0	0	2
OST	289	Office Systems Management	2	2	0	0	3
		Subtotal					(11)
<b>Fall Semester</b>							
CTS	130	Spreadsheet I	2	2	0	0	3
OST	164	Text Editing Applications	3	0	0	0	3
OST	184	Records Management	2	2	0	0	3
		Humanities Elective**					3
		Social/Behavioral Science Elective**					3
		Subtotal					(15)

**Spring Semester**

ACC	140	Payroll Accounting	1	2	0	0	2
BUS	270	Professional Development	3	0	0	0	3
COE	111	Co-op Work Experience I	0	0	0	10	1
OST	137	Office Software Applications	2	2	0	0	3
OST	233	Office Publications Design	2	2	0	0	3
		Major Course Elective***					3
		Subtotal					(15)

\*Denotes a corequisite, course cannot be taken by itself.

\*\*Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on pages 61-62.

\*\*\*Major Course Electives are to be selected from the following:

ACC	150	Acct Software Application	1	2	0	0	2
BUS	110	Introduction to Business	3	0	0	0	3
BUS	125	Personal Finance	3	0	0	0	3
BUS	137	Principles of Management	3	0	0	0	3
BUS	153	Human Resource Management	3	0	0	0	3
BUS	228	Business Statistics	2	2	0	0	3
BUS	240	Business Ethics	3	0	0	0	3
BUS	261	Diversity in Management	3	0	0	0	3
BUS	280	REAL Small Business	4	0	0	0	4
COE	113	Co-op Work Experience I	0	0	0	30	3
COE	121	Co-op Work Experience II	0	0	0	10	1
COE	122	Co-op Work Experience II	0	0	0	20	2
COE	123	Co-op Work Experience III	0	0	0	30	3
COE	131	Co-op Work Experience III	0	0	0	10	1
COE	132	Co-op Work Experience III	0	0	0	20	2
ECM	210	Introduction to E-Commerce	2	2	0	0	3
ECO	151	Survey of Economics	3	0	0	0	3
MKT	120	Principles of Marketing	3	0	0	0	3
OST	141	Med Terms I –Med Office	3	0	0	0	3
OST	148	Med Coding Billing & Insurance	3	0	0	0	3
OST	149	Med Legal Issues	3	0	0	0	3
OST	171	Intro to Virtual Office	2	2	0	0	3
OST	162	Executive Terminology	3	0	0	0	3
OST	241	Med Office Transcriptions I	1	2	0	0	2
OST	243	Med Office Simulation	2	2	0	0	3
OST	271	Office Web Technologies	2	2	0	0	3
OST	272	Virtual Office Capstone	1	2	0	0	2
WEB	110	Internet/Web Fundamentals	2	2	0	0	3

**Total Semester Credit Hours in Program ..... 71**

## Office Administration Diploma

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, ENG 090, OST 131, RED 090, MAT 060, and/or MAT 070.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
CIS	110	Introduction to Computers	2	2	0	0	3
OST	134	Text Entry and Formatting	2	2	0	0	3
OST	164	Text Editing Applications	3	0	0	0	3
OST	184	Records Management	2	2	0	0	3
Subtotal							(13)
<b>Spring Semester</b>							
BUS	270	Professional Development	3	0	0	0	3
COE	111	Co-op Work Experience	0	0	0	10	1
COM	231	Public Speaking	3	0	0	0	3
CTS	125	Graphics Presentations	2	2	0	0	3
CTS	130	Spreadsheet I	2	2	0	0	3
OST	136	Word Processing	2	2	0	0	3
Subtotal							(16)
<b>Summer Semester</b>							
ENG	111	Expository Writing	3	0	0	0	3
OST	236	Advanced Word/Info. Process	2	2	0	0	3
OST	284	Emerging Technologies	1	2	0	0	2
OST	289	Office Systems Management	2	2	0	0	3
Subtotal							(11)
<b>Total Semester Credit Hours in Program .....</b>							<b>40</b>

## Office Administration - Medical Office Diploma

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, ENG 090, RED 080, MAT 060, MAT 070, and OST 131.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
OST	131	Keyboarding	1	2	0	0	2
OS	136	Word Processing	2	2	0	0	3
OST	141	Medical Term I –Med Office	3	0	0	0	3
OST	164	Text Editing Applications	3	0	0	0	3
OST	184	Records Management	2	2	0	0	3
Subtotal							(15)
<b>Spring Semester</b>							
BUS	270	Professional Development	3	0	0	0	3
CIS	110	Introduction to Computers	2	2	0	0	3
COE	111	Co-op Work Experience I	0	0	0	10	1
COM	231	Public Speaking	3	0	0	0	3
OST	148	Med Coding Billing & Insurance	3	0	0	0	3
OST	241	Med Office Transcription I	1	2	0	0	2
Subtotal							(15)

**Summer Semester**

ENG	111	Expository Writing	3	0	0	0	3
OST	149	Medical Legal Issues	3	0	0	0	3
OST	243	Medical Office Simulation	2	2	0	0	3
OST	289	Administrative Office Mgt	2	2	0	0	3
		Subtotal					(12)

**Total Semester Credit Hours in Program ..... 42**

## Office Administration - Basic Office Certificate

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, OST 131, and MAT 060.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
CIS	110	Introduction to Computers	2	2	0	0	3
OST	131	Keyboarding	1	2	0	0	2
OST	164	Text Editing Applications	3	0	0	0	3
OST	184	Records Management	2	2	0	0	3
		Subtotal					(11)

**Spring Semester**

COE	111	Co-op Work Experience I	0	0	0	10	1
CTS	130	Spreadsheet I	2	2	0	0	3
OST	136	Word Processing	2	2	0	0	3
		Subtotal					(7)

**Total Semester Credit Hours in Program ..... 18**

## Office Administration - Medical Office Certificate

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, OST 131, and MAT 060.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
OST	136	Word Processing	2	2	0	0	3
OST	141	Medical Term I - Med Office	3	0	0	0	3
OST	164	Text Editing Applications	3	0	0	0	3
OST	184	Records Management	2	2	0	0	3
		Subtotal					(12)

**Spring Semester**

COE	111	Co-op Work Experience I	0	0	0	10	1
OST	148	Med Coding Billing & Insurance	3	0	0	0	3
OST	241	Med Office Transcription I	1	2	0	0	2
		Subtotal					(6)

**Total Semester Credit Hours in Program ..... 18**

## Office Administration/Virtual Office Assistance

### Associate in Applied Science Degree

Virtual Office Assistance is a concentration under the curriculum title of Office Administration. The curriculum is designed to prepare individuals to become independent contractors who possess the ability to offer administrative support services via e-mail, courier, fax, and telephone.

Students will acquire office skills required in today's business environment including utilization of word processing, spreadsheets, desktop publishing, and presentation graphics software. Coursework includes an introduction to the implementation of electronic commerce via the Internet and an introduction to telecommunications. Graduates are prepared to pass examinations for Microsoft Office Specialist Certification and are able to become self-employed contractors or work for an established virtual office service. Some graduates will prefer to gain experience working in a traditional office environment.

This curriculum complies with the standard approved by the State Board of Community Colleges.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, ENG 090, OST 131, RED 090, MAT 060, and/or MAT 070.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ACA	115	Success & Study Skills	0	2	0	0	1
ENG	111	Expository Writing	3	0	0	0	3
MAT	140	Survey of Mathematics	3	0	0	0	3
MAT	140A	Survey of Mathematics Lab*	0	2	2	0	1
OST	134	Text Entry & Formatting	2	2	0	0	3
OST	171	Intro to Virtual Office	2	2	0	0	3
		Subtotal					(14)
<b>Spring Semester</b>							
CIS	110	Intro to Computers	2	2	0	0	3
		Social/Behavioral Science Elective**					3
ENG	114	Prof Research & Reporting	3	0	0	0	3
OST	136	Word Processing	2	2	0	0	3
OST	164	Text Editing & Applications	3	0	0	0	3
		Subtotal					(15)
<b>Summer Semester</b>							
CTS	125	Presentation Graphics	2	2	0	0	3
OST	223	Admin Office Transcript I	2	2	0	0	3
OST	289	Office Systems Management	3	0	0	0	3
OST	162	Executive Terminology	3	0	0	0	3
		Subtotal					(12)
<b>Fall Semester</b>							
ECM	210	Introduction to E-Commerce	2	2	0	0	3
OST	184	Records Management	2	2	0	0	3
OST	236	Adv. Info/Word Processing	2	2	0	0	3
OST	271	Office Web Technologies	2	2	0	0	3
COE	111	Co-Op Education	1	0	0	0	1
		Subtotal					(13)

**Spring Semester**

CTS	130	Spreadsheet I	2	2	0	0	3
OST	233	Office Publications Design	2	2	0	0	3
OST	272	Virtual Office Capstone	1	2	0	0	2
		Humanities Elective**					3
		Major Course Elective***					3
		Subtotal					(14)

\*Denotes a corequisite, course cannot be taken by itself.

\*\*Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on pages 61-62.

\*\*\*Major Course Electives are to be selected from the following:

ACC	120	Prin of Financial Accounting	3	2	0	0	4
ACC	150	Acct Software Application	1	2	0	0	2
BUS	110	Introduction to Business	3	0	0	0	3
BUS	228	Business Statistics	2	2	0	0	3
BUS	240	Business Ethics	3	0	0	0	3
BUS	153	Human Resource Management	3	0	0	0	3
BUS	280	REAL Small Business	4	0	0	0	4
OST	141	Med Terms I –Med Office	3	0	0	0	3
OST	148	Med Coding Billing & Insurance	3	0	0	0	3
OST	149	Med Legal Issues	3	0	0	0	3
OST	241	Med Office Transcriptions I	1	2	0	0	2
WEB	110	Internet/Web Fundamentals	2	2	0	0	3

**Total Semester Credit Hours in Program ..... 68**

## Office Administration/Virtual Office Assistance Diploma

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, ENG 090, OST 131, RED 090, MAT 060, and/or MAT 070.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ACA	115	Success & Study Skills	0	2	0	0	1
CIS	110	Introduction to Computers	2	2	0	0	3
OST	171	Intro to Virtual Office	2	2	0	0	3
ECM	210	Introduction to E-Commerce	2	2	0	0	3
OST	184	Records Management	2	2	0	0	3
		Subtotal					(13)
<b>Spring Semester</b>							
COM	231	Public Speaking	3	0	0	0	3
OST	136	Word Processing	2	2	0	0	3
OST	164	Text Editing & Applications	3	0	0	0	3
OST	271	Office Web Technologies	2	2	0	0	3
OST	272	Virtual Office Capstone	1	2	0	0	2
COE	111	Co-Op Education	1	0	0	0	1
		Subtotal					(15)

**Summer Semester**

CTS	130	Spreadsheet I	2	2	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
OST	223	Admin. Office Transcript I	2	2	0	0	3
OST	289	Office Systems Management	3	0	0	0	3
OST	162	Executive Terminology	3	0	0	0	3
		Subtotal					(15)

**Total Semester Credit Hours in Program ..... 43**

## Plumbing Certificate

The Plumbing curriculum is designed to give individuals the opportunity to acquire basic skills to assist with the installation and repair of plumbing systems in residential and small buildings.

Course work includes sketching diagrams, interpretation of blueprints, and practices in plumbing assembly. Students will gain knowledge of state codes and requirements.

Graduates should qualify for employment at parts supply houses, maintenance companies, and plumbing contractors to assist with various plumbing applications.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include Learning Center Reading, English, and/or Math.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
BPR	130	Blueprint Reading for Construction	1	2	0	0	2
PLU	150	Plumbing Diagrams	1	2	0	0	2
WLD	112	Basic Welding Processes	1	3	0	0	2
		Subtotal					(6)
<b>Spring Semester</b>							
PLU	110	Modern Plumbing	4	15	0	0	9
PLU	160	Plumbing Estimates	1	2	0	0	2
		Subtotal					(11)
<b>Total Semester Credit Hours in Program .....</b>							<b>17</b>

## School-Age Education (Arts Track)

### Associate in Applied Science

This curriculum prepares individuals to work with children in elementary through middle grades in diverse learning environments. Students will combine learned theories with practice in actual settings with school-age children under the supervision of qualified teachers.

Course work includes child growth/development; computer technology in education; physical/nutritional needs of school-age children; care and guidance of school-age children; and communication skills with families and children. Students will foster the cognitive/language, physical/motor, social/emotional, and creative development of school-age populations.

Graduates are prepared to plan and implement developmentally appropriate programs in school-aged environments. Employment opportunities include school-age teachers in child care programs, before/after-school programs, paraprofessional positions in public/private schools, recreational centers, and other programs that work with school-age populations.

This curriculum contains the 44 semester-hour general education college-transfer core and is designed for students to transfer to four-year higher education institutions.

This curriculum complies with the standard approved by the State Board of Community Colleges.

Task Stream: Students who graduate from the program must complete an electronic portfolio in Task Stream <http://www.taskstream.com> to show competence in the NAEYC standards. Students will receive additional information about Task Stream when they enroll in the degree program.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, ENG 090, RED 090, MAT 060, MAT 070, and/or MAT 080.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
EDU	144	Child Development I	3	0	0	0	3
EDU	163	Classroom Management & Instruction	3	0	0	0	3
EDU	173	Becoming an Early Childhood Prof	3	0	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
		Humanities Elective**					3
		Subtotal					(16)
<b>Spring Semester</b>							
ENG	113	Literature Based Research	3	0	0	0	3
EDU	131	Child, Family and Community	3	0	0	0	3
EDU	145	Child Development II	3	0	0	0	3
EDU	271	Educational Technology	3	0	0	0	3
		Humanities Elective**					3
		Social/Behavioral Science Elective**	3	0	0	0	3
		Subtotal					(18)

**Summer Semester**

EDU 221	Children with Exceptionalities	3	0	0	0	3
	Social/Behavioral Science Elective**					3
	Math Elective**	3	0	0	0	3
	Math Elective Lab**	0	2	0	0	1
	Subtotal					(10)

**Fall Semester**

EDU 216	Foundations of Education	3	2	0	0	4
	Humanities Elective**					3
	Social/Behavioral Science Elective**	3	0	0	0	3
	Math Elective**	3	0	0	0	3
	Math Elective Lab**	0	2	0	0	1
	Natural/Physical Science Elective**	4	0	0	0	4
	Subtotal					(18)

**Spring Semester**

EDU 285	Internship Experience-School-age	1	9	0	0	4
EDU 289	Advanced Issues for School-age Populations	2	0	0	0	2
	Social/Behavioral Science Elective**	3	0	0	0	3
	Humanities Elective**					3
	Natural/Physical Science Elective**	4	0	0	0	4
	Subtotal					(16)

\*\*This program works in conjunction with the 44-semester hour general education core. Electives listed in the above program of study must be selected from the Associate in Arts general education core. The Associate of Arts general education core courses are found on pages 155-157.

**Total Semester Credit Hours in Program ..... 76**

## School-Age Education (Science Track)

### Associate in Applied Science Degree

This curriculum prepares individuals to work with children in elementary through middle grades in diverse learning environments. Students will combine learned theories with practice in actual settings with school-age children under the supervision of qualified teachers.

Course work includes child growth/development; computer technology in education; physical/nutritional needs of school-age children; care and guidance of school-age children; and communication skills with families and children. Students will foster the cognitive/language, physical/motor, social/emotional, and creative development of school-age populations.

Graduates are prepared to plan and implement developmentally appropriate programs in school-aged environments. Employment opportunities include school-age teachers in child care programs, before/after-school programs, paraprofessional positions in public/private schools, recreational centers, and other programs that work with school-age populations.

This curriculum contains the 44 semester-hour general education college-transfer core and is designed for students to transfer to four-year higher education institutions.

This curriculum complies with the standard approved by the State Board of Community Colleges.

Task Stream: Students who graduate from the program must complete an electronic portfolio in Task Stream <http://www.taskstream.com> to show competence in the NAEYC standards. Students will receive additional information about Task Stream when they enroll in the degree program.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, ENG 090, RED 090, MAT 060, MAT 070, and/or MAT080.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
EDU	144	Child Development I	3	0	0	0	3
EDU	163	Classroom Management & Instruction	3	0	0	0	3
EDU	173	Becoming Early Childhood Prof	3	0	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
		Math Elective**	3	0	0	0	3
		Math Elective Lab**	0	2	0	0	1
		Subtotal					(17)
<b>Spring Semester</b>							
ENG	113	Literature Based Research	3	0	0	0	3
EDU	131	Child, Family and Community	3	0	0	0	3
EDU	145	Child Development II	3	0	0	0	3
EDU	271	Educational Technology	3	0	0	0	3
		Humanities Elective**					3
		Social/Behavioral Science Elective**	3	0	0	0	3
		Subtotal					(18)

**Summer Semester**

EDU 221	Children with Exceptionalities	3	0	0	0	3
	Humanities Elective**					3
	Math Elective**	3	0	0	0	3
	Math Elective Lab**	0	2	0	0	1
	Subtotal					(10)

**Fall Semester**

EDU 216	Foundations of Education	3	2	0	0	4
	Humanities Elective**					3
	Social/Behavioral Science Elective**					3
	Natural/Physical Science or Math Elective**	3	0	0	0	3
	Natural/Physical Science Elective**	4	0	0	0	4
	Subtotal					(17)

**Spring Semester**

EDU 285	Internship Experience-School-age	1	9	0	0	4
EDU 289	Adv Issues School-age Populations	2	0	0	0	2
	Social/Behavioral Science Elective**	3	0	0	0	3
	Natural/Physical Science or Math Elective**	3	0	0	0	3
	Natural/Physical Science Elective**	4	0	0	0	4
	Subtotal					(16)

\*\*This program works in conjunction with the 44-semester hour general education core. Electives listed in the above program of study must be selected from the Associate in Science general education core. The Associate in Science general education core courses are found on pages 172-175.

**Total Semester Credit Hours in Program ..... 76**

## Simulation and Game Development

### Associate in Applied Science Degree

The Simulation and Game Development curriculum provides a broad background in simulation and game development with practical applications in creative arts, visual arts, audio/video technology, creative writing, modeling, design, programming and management.

Students will receive hands-on training in design, 3D modeling, software engineering, database administration and programming for the purpose of creating simulations and games.

Graduates should qualify for employment as designers, artists, animators, programmers, database administrators, testers, quality assurance analysts, engineers and administrators in the entertainment industry, the health care industry, engineering, forensics, education, NASA and government agencies.

This curriculum complies with the standard approved by the State Board of Community Colleges.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, ENG 090, RED 090, MAT 060, and/or MAT 070.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
CIS	110	Introduction to Computers	2	2	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
SGD	111	Introduction to SGD	2	3	0	0	3
SGD	112	SGD Design	2	3	0	0	3
Subtotal							(13)
<b>Spring Semester</b>							
DFT	151	CAD II	2	3	0	0	3
SGD	113	SGD Programming	2	3	0	0	3
SGD	114	3D Modeling	2	3	0	0	3
SGD	212	SGD Design II	2	3	0	0	3
WEB	120	Intro to Internet Multimedia	2	2	0	0	3
Subtotal							(15)
<b>Summer Semester</b>							
COM	231	Public Speaking	3	0	0	0	3
MAT	140	Survey of Mathematics	3	0	0	0	3
MAT	140A	Survey of Mathematics Lab*	0	2	0	0	1
Major Course Elective***							3
Subtotal							(10)
<b>Fall Semester</b>							
SGD	214	SGD Modeling II	2	3	0	0	3
SGD	285	SG Software Engineering	2	3	0	0	3
SGD	122	Database Programming	2	3	0	0	3
WEB	140	Web Development Tools	2	2	0	0	3
Major Course Elective***							3
Subtotal							(15)

**Spring Semester**

COE	111	Co-op Work Experience I	0	0	0	10	1
ENG	114	Prof. Research and Reporting	2	3	0	0	3
WEB	285	Emerging Web Technologies	2	2	0	0	3
SGD	161	SG Animation	2	3	0	0	3
SGD	289	SGD Project	2	3	0	0	3
		Humanities Elective**					3
		Subtotal					(16)

\*Denotes a corequisite, course cannot be taken by itself.

\*\*Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on pages 61-62.

\*\*\*Major Course Electives are to be selected from the following:

BUS	110	Introduction to Business	3	0	0	0	3
COE	112	Co-op Wok Experience II	0	0	0	20	2
COE	113	Co-op Wok Experience III	0	0	0	30	3
CSC	134	C++ Programming	2	3	0	0	3
CSC	151	Java Programming	2	3	0	0	3
CSC	153	C# Programming	2	3	0	0	3
DBA	110	Database Concepts	2	3	0	0	3
DEA	220	DEAT Compositing	2	3	0	0	3
SGD	158	SGD Business Management	3	0	0	0	3
SGD	162	SG 3D Animation	2	3	0	0	3
SGD	163	Documentation	2	3	0	0	3
SGD	167	SG Ethics	3	0	0	0	3
SGD	174	SG Level Design	2	3	0	0	3

**Total Semester Credit Hours in Program ..... 69**

## Surgical Technology

### Associate in Applied Science Degree

The Surgical Technology curriculum prepares individuals to assist in the care of the surgical patient in the operating room and to function as a member of the surgical team.

Students will apply theoretical knowledge to the care of patients undergoing surgery and develop skills necessary to prepare supplies, equipment, and instruments; maintain aseptic conditions; prepare patients for surgery; and assist surgeons during operations.

Graduates of accredited programs will be eligible to apply to take the national certification exam for Surgical Technologist which is administered by the National Board of Surgical Technologist and Surgical Assisting. Employment opportunities include labor/delivery/emergency departments, inpatient/outpatient surgery centers, dialysis units/facilities, physician offices, and central supply processing units.

Special admission procedures apply to this program. See page 14 for details.

This curriculum complies with the standard approved by the State Board of Community Colleges.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, ENG 090, RED 090, BIO 090, MAT 060, and/or MAT 070. Prerequisite for admission may include MAT 140/MAT 140A if high school math is not a "C" average or above.

			Class	Lab	Clinic	Work	Credit
						Exp.	
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
BIO	163	Basic Anatomy/Physiology	4	2	0	0	5
ENG	111	Expository Writing	3	0	0	0	3
SUR	110	Introduction to Surgical Tech	3	0	0	0	3
SUR	111	Periop Patient Care	5	6	0	0	7
		Subtotal					(19)
<b>Spring Semester</b>							
BIO	175	General Microbiology	2	2	0	0	3
SUR	122	Surgical Procedures I	5	3	0	0	6
SUR	123	SUR Clinical Practice I	0	0	21	0	7
		Subtotal					(16)
<b>Summer Semester</b>							
PSY	135	Group Processes	3	0	0	0	3
SUR	134	Surgical Procedures II	5	0	0	0	5
SUR	135	SUR Clinical Practice II	0	0	12	0	4
SUR	137	Prof Success Prep	1	0	0	0	1
		Subtotal					(13)
<b>Fall Semester</b>							
BUS	137	Principles of Management	3	0	0	0	3
CIS	110	Introduction to Computers	2	2	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	0	3
		Social /Behavioral Science Elective**	3	0	0	0	3
		Humanities Elective**					3
		Subtotal					(15)

**Spring Semester**

ECO	251	Principles of Microeconomics	3	0	0	0	3
SUR	210	Advanced SUR Clinical Practice	0	0	6	0	2
SUR	211	Advanced Theoretical Concepts	2	0	0	0	2
		Subtotal					(7)

\*\*Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on pages 61-62.

**Total Semester Credit Hours in Program ..... 70**

**Surgical Technology  
Diploma**

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
BIO	163	Basic Anatomy/Physiology	4	2	0	0	5
ENG	111	Expository Writing	3	0	0	0	3
SUR	110	Introduction to Surgical Tech	3	0	0	0	3
SUR	111	Periop Patient Care	5	6	0	0	7
		Subtotal					(19)
<b>Spring Semester</b>							
BIO	175	General Microbiology	2	2	0	0	3
SUR	122	Surgical Procedures I	5	3	0	0	6
SUR	123	SUR Clinical Practice I	0	0	21	0	7
		Subtotal					(16)
<b>Summer Semester</b>							
PSY	135	Group Processes	3	0	0	0	3
SUR	134	Surgical Procedures II	5	0	0	0	5
SUR	135	SUR Clinical Practice II	0	0	12	0	4
SUR	137	Professional Success Preparation	1	0	0	0	1
		Subtotal					(13)

**Total Semester Credit Hours in Program ..... 48**

## Transfer Program Associate in Arts

Associate in Arts degree program is designed for students who plan to transfer to a four-year institution for their baccalaureate degree. It is flexible in design to meet the needs of students who will be majoring in different fields at the four-year level.

This curriculum complies with the standard approved by the State Board of Community Colleges. It meets the requirements for the Comprehensive Articulation Agreement between the North Carolina University System and the Community College System.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, ENG 090, RED 090, BIO 090, CHM 092, MAT 060, MAT 070, and/or MAT 080. Prerequisites for International Languages may include FRE 110, GER 110, or SPA 110.

### GENERAL EDUCATION CORE

This 44 semester hour core of courses, with a grade of "C" or better, meets the general education core requirements.

			Class	Lab	Clinic	Work Exp.	Credit
<b>English Composition</b> (6 semester hours required)							
ENG	111	Expository Writing	3	0	0	0	3
ENG	113	Literature Based Research	3	0	0	0	3
Subtotal							(6)
<b>Humanities/Fine Arts</b> (12 semester hours required)							
(Four courses from at least three different discipline areas must be selected. One literature course and one foreign language course are required)							
<b>Art</b>							
ART	111	Art Appreciation	3	0	0	0	3
<b>Communications</b>							
COM	231	Public Speaking	3	0	0	0	3
<b>Drama</b>							
DRA	111	Theatre Appreciation	3	0	0	0	3
DRA	112	Literature of the Theatre	3	0	0	0	3
DRA	115	Theatre Criticism	3	0	0	0	3
<b>Humanities</b>							
HUM	110	Technology and Society	3	0	0	0	3
HUM	211	Humanities I	3	0	0	0	3
HUM	212	Humanities II	3	0	0	0	3
<b>Literature</b>							
ENG	231	American Literature I	3	0	0	0	3
ENG	232	American Literature II	3	0	0	0	3
ENG	233	Major American Writers	3	0	0	0	3
ENG	241	British Literature I	3	0	0	0	3
ENG	242	British Literature II	3	0	0	0	3
ENG	262	World Literature II	3	0	0	0	3

**Music**

MUS	110	Music Appreciation	3	0	0	0	3
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**Philosophy**

PHI	210	History of Philosophy	3	0	0	0	3
PHI	230	Introduction to Logic	3	0	0	0	3
PHI	240	Introduction to Ethics	3	0	0	0	3

**Religion**

REL	110	World Religions	3	0	0	0	3
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**International Languages**

ASL	111	Elementary ASL I	3	0	0	0	3
ASL	181	ASL Lab 1*	0	2	0	0	1
ASL	112	Elementary ASL II	3	0	0	0	3
ASL	182	ASL Lab 2*	0	2	0	0	1
ASL	211	Intermediate ASL I	3	0	0	0	3
ASL	281	ASL Lab 3*	0	2	0	0	1
ASL	212	Intermediate ASL II	3	0	0	0	3
ASL	282	ASL Lab 4*	0	2	0	0	1
FRE	111	Elementary French I	3	0	0	0	3
FRE	181	French Lab 1*	0	2	0	0	1
FRE	112	Elementary French II	3	0	0	0	3
FRE	182	French Lab 2*	0	2	0	0	1
FRE	211	Intermediate French I	3	0	0	0	3
FRE	281	French Lab 3*	0	2	0	0	1
FRE	212	Intermediate French II	3	0	0	0	3
FRE	282	French Lab 4*	0	2	0	0	1
GER	111	Elementary German I	3	0	0	0	3
GER	181	German Lab I*	0	2	0	0	1
GER	112	Elementary German II	3	0	0	0	3
GER	182	German Lab II*	0	2	0	0	1
GER	211	Intermediate German I	3	0	0	0	3
GER	281	German Lab 3*	0	2	0	0	1
GER	212	Intermediate German II	3	0	0	0	3
GER	282	German Lab 4*	0	2	0	0	1
SPA	111	Elementary Spanish I	3	0	0	0	3
SPA	181	Spanish Lab I*	0	2	0	0	1
SPA	112	Elementary Spanish II	3	0	0	0	3
SPA	182	Spanish Lab II*	0	2	0	0	1
SPA	211	Intermediate Spanish I	3	0	0	0	3
SPA	281	Spanish Lab 3*	0	2	0	0	1
SPA	212	Intermediate Spanish II	3	0	0	0	3
SPA	282	Spanish Lab 4*	0	2	0	0	1
		Subtotal					(12)

**Social/Behavioral Science** (12 semester hours required. Four courses from at least three different areas must be selected. Note: History 111 or 112 is required.)

**Anthropology**

ANT	210	General Anthropology	3	0	0	0	3
ANT	220	Cultural Anthropology	3	0	0	0	3

**Economics**

ECO	151	Survey of Economics	3	0	0	0	3
ECO	251	Principles of Microeconomics	3	0	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	0	3

**Geography**

GEO	111	World Regional Geography	3	0	0	0	3
GEO	130	General Physical Geography	3	0	0	0	3

**History**

HIS	111	World Civilizations I	3	0	0	0	3
HIS	112	World Civilizations II	3	0	0	0	3
HIS	131	American History I	3	0	0	0	3
HIS	132	American History II	3	0	0	0	3

**Political Science**

POL	120	American Government	3	0	0	0	3
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**Psychology**

PSY	150	General Psychology	3	0	0	0	3
PSY	237	Social Psychology	3	0	0	0	3
PSY	241	Developmental Psychology	3	0	0	0	3
PSY	281	Abnormal Psychology	3	0	0	0	3

**Sociology**

SOC	210	Introduction to Sociology	3	0	0	0	3
SOC	213	Sociology of the Family	3	0	0	0	3
SOC	220	Social Problems	3	0	0	0	3
		Subtotal					(12)

**Science (8 semester credit hours required from the following)**

AST	111	Descriptive Astronomy	3	0	0	0	3
AST	111A	Descriptive Astronomy Lab*	0	2	0	0	1
BIO	111	General Biology I	3	3	0	0	4
BIO	112	General Biology II	3	3	0	0	4
BIO	120	Introductory Botany	3	3	0	0	4
BIO	130	Introductory Zoology	3	3	0	0	4
BIO	140	Environmental Biology	3	0	0	0	4
BIO	140A	Environmental Biology Lab*	0	3	0	0	1
CHM	131	Introduction to Chemistry	3	0	0	0	3
CHM	131A	Intro. to Chemistry Lab*	0	3	0	0	1
CHM	132	Organic and Biochemistry	3	3	0	0	4
CHM	151	General Chemistry I	3	3	0	0	4
CHM	152	General Chemistry II	3	3	0	0	4
PHY	110	Conceptual Physics	3	0	0	0	3
PHY	110A	Conceptual Physics Lab*	0	2	0	0	1
PHY	151	College Physics I	3	2	0	0	4
PHY	152	College Physics II	3	2	0	0	4
		Subtotal					(8)

**Mathematics (6 semester hours required from the following. Note: MAT 161 or MAT 171 is required.)**

MAT	140	Survey of Mathematics	3	0	0	0	3
MAT	140A	Survey of Mathematics Lab*	0	2	0	0	1
MAT	151	Statistics I	3	0	0	0	3
MAT	151A	Statistics Lab*	0	2	0	0	1
MAT	161	College Algebra	3	0	0	0	3
MAT	161A	College Algebra Lab*	0	2	0	0	1
MAT	171	Pre-Calculus Algebra	3	0	0	0	3
MAT	171A	Pre-Calculus Algebra Lab*	0	2	0	0	1
MAT	172	Pre-Calculus Trigonometry	3	0	0	0	3
MAT	172A	Pre-Calculus Trig Lab*	0	2	0	0	1
MAT	175	Pre-Calculus	4	0	0	0	4
MAT	175A	Pre-Calculus Lab*	0	2	0	0	1
MAT	271	Calculus I	3	2	0	0	4
MAT	272	Calculus II	3	2	0	0	4
		Subtotal					(6)

**Other Required Hours**

ACA 115	Success and Study Skills	0	2	0	0	1
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**Note:** ACA 115 - Success and Study Skills is a required course for all degree and diploma programs at BRCC but is not part of the Comprehensive Articulation Agreement for transferability. Students should take this course their first semester or in the semester required by their particular program. Students who are enrolled as special credit students should take this course before they have completed 12 semester hours.

(Select 20 hours from the above courses and the Electives listed below.)

**Health and Physical Education Electives (2 semester hours are recommended.)**

HEA 112	First Aid & CPR	1	2	0	0	2
PED 110	Fit and Well for Life	1	2	0	0	2
PED 111	Physical Fitness I	0	3	0	0	1
PED 117	Weight Training I	0	3	0	0	1
PED 118	Weight Training II	0	3	0	0	1
PED 119	Circuit Training	0	3	0	0	1
PED 120	Walking for Fitness	0	3	0	0	1
PED 121	Walk, Jog, Run	0	3	0	0	1
PED 122	Yoga I	0	2	0	0	1
PED 123	Yoga II	0	2	0	0	1
PED 125	Self-Defense-Beginning	0	2	0	0	1
PED 128	Golf-Beginning	0	2	0	0	1
PED 130	Tennis-Beginning	0	2	0	0	1
PED 132	Racquetball - Beginning	0	2	0	0	1
PED 137	Badminton	0	2	0	0	1
PED 139	Bowling-Beginning	0	2	0	0	1
PED 143	Volleyball-Beginning	0	2	0	0	1
PED 145	Basketball-Beginning	0	2	0	0	1
PED 147	Soccer	0	2	0	0	1
PED 148	Softball	0	2	0	0	1
PED 152	Swimming-Beginning	0	2	0	0	1
PED 160	Canoeing-Basic	0	2	0	0	1
PED 165	Sport Science as a Career	3	0	0	0	3
PED 173	Rock Climbing	0	2	0	0	1
PED 181	Snow Skiing-Beginning	0	2	0	0	1
PED 254	Coaching Basketball	1	2	0	0	2
PED 256	Coaching Baseball	1	2	0	0	2
PED 259	Prev & Care Ath Injuries	1	2	0	0	2

**Computing (3 semester hours recommended)**

CIS 110	Introduction to Computers	2	2	0	0	3
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**Other Electives**

ACC 120	Principles of Financial Accounting	3	2	0	0	4
ACC 121	Principles of Managerial Accounting	3	2	0	0	4
ART 131	Drawing I	0	6	0	0	3
ART 132	Drawing II	0	6	0	0	3
ART 260	Photography Appreciation	3	0	0	0	3
ART 264	Digital Photography I	1	4	0	0	3
ART 265	Digital Photography II	1	4	0	0	3
ART 283	Ceramics I	0	6	0	0	3
ART 284	Ceramics II	0	6	0	0	3
BIO 165	Anatomy and Physiology I	3	3	0	0	4
BIO 166	Anatomy and Physiology II	3	3	0	0	4
BIO 175	General Microbiology	2	2	0	0	3
BUS 110	Introduction to Business	3	0	0	0	3
BUS 115	Business Law I	3	0	0	0	3
CIS 115	Intro to Programming and Logic	2	2	0	0	3
COM 120	Interpersonal Communication	3	0	0	0	3

COM	140	Intro to Intercultural Comm	3	0	0	0	3
COM	160	Small Group Communication	3	0	0	0	3
CSC	134	C++ Programming	2	3	0	0	3
DRA	130	Acting I	0	6	0	0	3
DRA	131	Acting II	0	6	0	0	3
ENG	125	Creative Writing I	3	0	0	0	3
ENG	126	Creative Writing II	3	0	0	0	3
ENG	272	Southern Literature	3	0	0	0	3
FRE	141	Culture and Civilization	3	0	0	0	3
FRE	151	Francophone Literature	3	0	0	0	3
FRE	161	Cultural Immersion	2	3	0	0	3
FRE	221	French Conversation	3	0	0	0	3
FRE	231	Reading and Composition	3	0	0	0	3
HIS	151	Hispanic Civilization	3	0	0	0	3
HIS	162	Women and History	3	0	0	0	3
HIS	221	African-American History	3	0	0	0	3
HIS	227	Native American History	3	0	0	0	3
HIS	231	Recent American History	3	0	0	0	3
HIS	233	History of Appalachia	3	0	0	0	3
HIS	234	Cherokee History	3	0	0	0	3
HIS	236	North Carolina History	3	0	0	0	3
HUM	123	Appalachian Culture	3	0	0	0	3
MAT	141	Mathematical Concepts I	3	0	0	0	3
MAT	141A	Mathematical Concepts I Lab*	0	2	0	0	1
MAT	142	Mathematical Concepts II	3	0	0	0	3
MAT	142A	Mathematical Concepts II Lab*	0	2	0	0	1
MAT	165	Finite Mathematics	3	0	0	0	3
MAT	252	Statistics II	3	0	0	0	3
MAT	252A	Statistics II Lab*	0	2	0	0	1
MUS	151	Class Music I	0	2	0	0	1
MUS	152	Class Music II	0	2	0	0	1
MUS	251	Class Music III	0	2	0	0	1
MUS	252	Class Music IV	0	2	0	0	1
POL	130	State and Local Government	3	0	0	0	3
SOC	215	Group Processes	3	0	0	0	3
SPA	161	Cultural Immersion	2	3	0	0	3
		Subtotal					(20)

\*Denotes a corequisite, course cannot be taken by itself.

**Total Semester Credit Hours in Program ..... 65**

## Transfer Program

### Associate in Arts

#### Transfer Core Diploma

The Associate in Arts Transfer Core Diploma is designed for students who plan to transfer to a four-year institution for their baccalaureate degree. This diploma is designed to allow students to complete their general education core requirements and then transfer to a four-year institution. It is flexible in design to meet the needs of students who will be majoring in different fields at the four-year level.

This diploma complies with the standard approved by the State Board of Community Colleges. The general education core is the first level of completion that allows transfer students to take advantage of the terms of the Comprehensive Articulation Agreement.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, ENG 090, RED 090, BIO 090, CHM 092, MAT 060, MAT 070, and/or MAT 080. Prerequisites for International Languages may include FRE 110, GER 110, or SPA 110.

#### GENERAL EDUCATION CORE

This 44 semester hour core of courses, with a grade of "C" or better, meets the general education core requirements.

			Class	Lab	Clinic	Work Exp.	Credit
<b>English Composition</b> (6 semester hours required)							
ENG	111	Expository Writing	3	0	0	0	3
ENG	113	Literature Based Research	3	0	0	0	3
Subtotal							(6)
<b>Humanities/Fine Arts</b> (12 semester hours required)							
(Four courses from at least three different discipline areas must be selected. One literature course and one foreign language course are required)							
<b>Art</b>							
ART	111	Art Appreciation	3	0	0	0	3
<b>Communications</b>							
COM	231	Public Speaking	3	0	0	0	3
<b>Drama</b>							
DRA	111	Theatre Appreciation	3	0	0	0	3
DRA	112	Literature of the Theatre	3	0	0	0	3
DRA	115	Theatre Criticism	3	0	0	0	3
<b>Humanities</b>							
HUM	110	Technology and Society	3	0	0	0	3
HUM	211	Humanities I	3	0	0	0	3
HUM	212	Humanities II	3	0	0	0	3
<b>Literature</b>							
ENG	231	American Literature I	3	0	0	0	3
ENG	232	American Literature II	3	0	0	0	3
ENG	233	Major American Writers	3	0	0	0	3
ENG	241	British Literature I	3	0	0	0	3
ENG	242	British Literature II	3	0	0	0	3
ENG	262	World Literature II	3	0	0	0	3

**Music**

MUS	110	Music Appreciation	3	0	0	0	3
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**Philosophy**

PHI	210	History of Philosophy	3	0	0	0	3
PHI	230	Introduction to Logic	3	0	0	0	3
PHI	240	Introduction to Ethics	3	0	0	0	3

**Religion**

REL	110	World Religions	3	0	0	0	3
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**International Languages**

ASL	111	Elementary ASL I	3	0	0	0	3
ASL	181	ASL Lab 1*	0	2	0	0	1
ASL	112	Elementary ASL II	3	0	0	0	3
ASL	182	ASL Lab 2*	0	2	0	0	1
ASL	211	Intermediate ASL I	3	0	0	0	3
ASL	281	ASL Lab 3*	0	2	0	0	1
ASL	212	Intermediate ASL II	3	0	0	0	3
ASL	282	ASL Lab 4*	0	2	0	0	1
FRE	111	Elementary French I	3	0	0	0	3
FRE	181	French Lab 1*	0	2	0	0	1
FRE	112	Elementary French II	3	0	0	0	3
FRE	182	French Lab 2*	0	2	0	0	1
FRE	211	Intermediate French I	3	0	0	0	3
FRE	281	French Lab 3*	0	2	0	0	1
FRE	212	Intermediate French II	3	0	0	0	3
FRE	282	French Lab 4*	0	2	0	0	1
GER	111	Elementary German I	3	0	0	0	3
GER	181	German Lab I*	0	2	0	0	1
GER	112	Elementary German II	3	0	0	0	3
GER	182	German Lab II*	0	2	0	0	1
GER	211	Intermediate German I	3	0	0	0	3
GER	281	German Lab 3*	0	2	0	0	1
GER	212	Intermediate German II	3	0	0	0	3
GER	282	German Lab 4*	0	2	0	0	1
SPA	111	Elementary Spanish I	3	0	0	0	3
SPA	181	Spanish Lab I*	0	2	0	0	1
SPA	112	Elementary Spanish II	3	0	0	0	3
SPA	182	Spanish Lab II*	0	2	0	0	1
SPA	211	Intermediate Spanish I	3	0	0	0	3
SPA	281	Spanish Lab 3*	0	2	0	0	1
SPA	212	Intermediate Spanish II	3	0	0	0	3
SPA	282	Spanish Lab 4*	0	2	0	0	1
		Subtotal					(12)

**Social/Behavioral Science** (12 semester hours required. Four courses from at least three different discipline areas must be selected. Note: History 111 or 112 is required.)

**Anthropology**

ANT	210	General Anthropology	3	0	0	0	3
ANT	220	Cultural Anthropology	3	0	0	0	3

**Economics**

ECO	151	Survey of Economics	3	0	0	0	3
ECO	251	Principles of Microeconomics	3	0	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	0	3

**Geography**

GEO	111	World Regional Geography	3	0	0	0	3
GEO	130	General Physical Geography	3	0	0	0	3

**History**

HIS	111	World Civilizations I	3	0	0	0	3
HIS	112	World Civilizations II	3	0	0	0	3
HIS	131	American History I	3	0	0	0	3
HIS	132	American History II	3	0	0	0	3

**Political Science**

POL	120	American Government	3	0	0	0	3
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**Psychology**

PSY	150	General Psychology	3	0	0	0	3
PSY	237	Social Psychology	3	0	0	0	3
PSY	241	Developmental Psychology	3	0	0	0	3
PSY	281	Abnormal Psychology	3	0	0	0	3

**Sociology**

SOC	210	Introduction to Sociology	3	0	0	0	3
SOC	213	Sociology of the Family	3	0	0	0	3
SOC	220	Social Problems	3	0	0	0	3
		Subtotal					(12)

**Science** (8 semester credit hours required from the following)

AST	111	Descriptive Astronomy	3	0	0	0	3
AST	111A	Descriptive Astronomy Lab*	0	2	0	0	1
BIO	111	General Biology I	3	3	0	0	4
BIO	112	General Biology II	3	3	0	0	4
BIO	120	Introductory Botany	3	3	0	0	4
BIO	130	Introductory Zoology	3	3	0	0	4
BIO	140	Environmental Biology	3	0	0	0	4
BIO	140A	Environmental Biology Lab*	0	3	0	0	1
CHM	131	Introduction to Chemistry	3	0	0	0	3
CHM	131A	Introduction to Chemistry Lab*	0	3	0	0	1
CHM	132	Organic and Biochemistry	3	3	0	0	4
CHM	151	General Chemistry I	3	3	0	0	4
CHM	152	General Chemistry II	3	3	0	0	4
PHY	110	Conceptual Physics	3	0	0	0	3
PHY	110A	Conceptual Physics Lab*	0	2	0	0	1
PHY	151	College Physics I	3	2	0	0	4
PHY	152	College Physics II	3	2	0	0	4
		Subtotal					(8)

**Mathematics** (6 semester hours required from the following. Note: MAT 161 or MAT 171 is required.)

MAT	140	Survey of Mathematics	3	0	0	0	3
MAT	140A	Survey of Mathematics Lab*	0	2	0	0	1
MAT	151	Statistics I	3	0	0	0	3
MAT	151A	Statistics Lab*	0	2	0	0	1
MAT	161	College Algebra	3	0	0	0	3
MAT	161A	College Algebra Lab*	0	2	0	0	1
MAT	171	Pre-Calculus Algebra	3	0	0	0	3
MAT	171A	Pre-Calculus Algebra Lab*	0	2	0	0	1
MAT	172	Pre-Calculus Trigonometry	3	0	0	0	3
MAT	172A	Pre-Calculus Trig Lab*	0	2	0	0	1
MAT	175	Pre-Calculus	4	0	0	0	4
MAT	175A	Pre-Calculus Lab*	0	2	0	0	1
MAT	271	Calculus I	3	2	0	0	4
MAT	272	Calculus II	3	2	0	0	4
		Subtotal					(6)

\*Denotes a corequisite, course cannot be taken by itself.

**Total Semester Credit Hours in Program ..... 44**

## Associate in Arts Pre-Major Articulation Agreements

Pre-Major Articulation Agreements are agreements between the 16-member University of North Carolina System, certain private colleges and universities, and the 58 North Carolina Community Colleges. Pre-Major Agreements have been developed as blueprints for guiding community college students who intend to major in certain areas. Upon successful completion of the associate degree, students who meet the requirements outlined in one of the pre-major tracks below will be eligible to be considered for admissions to the universities offering that major. For more detailed information about Pre-Majors, please contact your Faculty Advisor, Dean for Arts and Sciences, College Transfer Coordinator in the Student Services Division, or on the web at [http://www.ga.unc.edu/student\\_info/caa](http://www.ga.unc.edu/student_info/caa).

- Business Administration, Accounting, Economics, Finance and Marketing
- Business Education/Marketing Education
- Criminal Justice
- Elementary Education
- English
- English Education
- History
- Information Systems
- Liberal Studies
- Middle Grades Education
- Middle Grades Education and Special Education
- Nursing
- Physical Education
- Political Science
- Psychology
- Social Science Secondary Education
- Social Work
- Sociology
- Special Education

## Transfer Program

### Associate in Fine Arts—Art

The Associate in Fine Arts (Art) degree program is designed for students who plan to transfer to four-year institution where they will major in the area of performing or teaching fine arts. The program provides general education courses as well as those courses designed for the area of specialization.

This curriculum complies with the standard approved by the State Board of Community Colleges.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, ENG 090, RED 090, BIO 090, CHM 092, MAT 060, MAT 070, and/or MAT 080. A student must earn a “C” or better to progress to the next class.

			Class	Lab	Clinic	Work Exp.	Credit
<b>English Composition</b> (6 semester hours required)							
ENG	111	Expository Writing	3	0	0	0	3
ENG	113	Literature Based Research	3	0	0	0	3
		Subtotal					(6)
<b>Literature</b> (3 semester hours required)							
ENG	231	American Literature I	3	0	0	0	3
ENG	232	American Literature II	3	0	0	0	3
ENG	233	Major American Writers	3	0	0	0	3
ENG	241	British Literature I	3	0	0	0	3
ENG	242	British Literature II	3	0	0	0	3
ENG	262	World Literature II	3	0	0	0	3
		Subtotal					(3)
<b>Humanities/Fine Arts</b> (3 semester hours required)							
ART	111	Art Appreciation	3	0	0	0	3
COM	231	Public Speaking	3	0	0	0	3
DRA	111	Theatre Appreciation	3	0	0	0	3
DRA	112	Literature of the Theatre	3	0	0	0	3
HUM	110	Technology and Society	3	0	0	0	3
HUM	211	Humanities I	3	0	0	0	3
HUM	212	Humanities II	3	0	0	0	3
MUS	110	Music Appreciation	3	0	0	0	3
PHI	210	History of Philosophy	3	0	0	0	3
PHI	240	Introduction to Ethics	3	0	0	0	3
REL	110	World Religions	3	0	0	0	3
		Subtotal					(3)
<b>Social/Behavioral Science</b> (9 semester hours required)							
Select three courses from three different discipline areas. Note: HIS 111 or 112 is required.)							
ECO	151	Survey of Economics	3	0	0	0	3
ECO	251	Prin. of Microeconomics	3	0	0	0	3
GEO	111	World Regional Geography	3	0	0	0	3
HIS	111	World Civilizations I	3	0	0	0	3
HIS	112	World Civilizations II	3	0	0	0	3
HIS	131	American History I	3	0	0	0	3
HIS	132	American History II	3	0	0	0	3
POL	120	American Government	3	0	0	0	3
POL	120	American Government	3	0	0	0	3
PSY	150	General Psychology	3	0	0	0	3
SOC	210	Introduction to Sociology	3	0	0	0	3

SOC	213	Sociology of the Family	3	0	0	0	3
SOC	220	Social Problems	3	0	0	0	3
		Subtotal					(9)

**Mathematics (3 semester hours required)**

MAT	161	College Algebra	3	0	0	0	3
MAT	161A	College Algebra Lab*	0	2	0	0	1
MAT	171	Pre-Calculus Algebra	3	0	0	0	3
MAT	171A	Pre-Calculus Algebra Lab*	0	2	0	0	1
MAT	172	Pre-Calculus Trigonometry	3	0	0	0	3
MAT	172A	Pre-Calculus Trigonometry Lab*	0	2	0	0	1
		Subtotal					(3)

\*Denotes a corequisite, course cannot be taken by itself.

**Sciences (4 semester hours required)**

BIO	111	General Biology I	3	3	0	0	4
CHM	151	General Chemistry I	3	3	0	0	4
		Subtotal					(4)

**Other Required Hours**

ACA	115	Success and Study Skills	0	2	0	0	1
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**Note:** ACA 115 - Success and Study Skills is a required course for all degree and diploma programs at BRCC but is not part of the Comprehensive Articulation Agreement for transferability. Students should take this course their first semester or in the semester required by their particular program. Students who are enrolled as special credit students should take this course before they have completed 12 semester hours.

**Required Art Courses (15 semester hours required)**

ART	114	Art History Survey I	3	0	0	0	3
ART	115	Art History Survey II	3	0	0	0	3
ART	121	Design I	0	6	0	0	3
ART	122	Design II	0	6	0	0	3
ART	131	Drawing I	0	6	0	0	3
		Subtotal					(15)

**Art Electives (21 semester hours required)**

ART	132	Drawing II	0	6	0	0	3
ART	135	Figure Drawing I	0	6	0	0	3
ART	171	Computer Art I	0	6	0	0	3
ART	222	Wood Design I	0	6	0	0	3
ART	223	Wood Design II	0	6	0	0	3
ART	231	Printmaking I	0	6	0	0	3
ART	232	Printmaking II	0	6	0	0	3
ART	235	Figure Drawing II	0	6	0	0	3
ART	240	Painting I	0	6	0	0	3
ART	241	Painting II	0	6	0	0	3
ART	261	Photography I	0	6	0	0	3
ART	262	Photography II	0	6	0	0	3
ART	264	Digital Photography I	0	6	0	0	3
ART	265	Digital Photography II	0	6	0	0	3
ART	266	Videography I	0	6	0	0	3
ART	267	Videography II	0	6	0	0	3
ART	271	Computer Art II	0	6	0	0	3
ART	281	Sculpture I	0	6	0	0	3
ART	282	Sculpture II	0	6	0	0	3
ART	283	Ceramics I	0	6	0	0	3
ART	284	Ceramics II	0	6	0	0	3
		Subtotal					(21)

**Total Semester Credit Hours in Program ..... 65**

## Transfer Program

### Associate in Fine Arts—Drama

The Associate in Fine Arts (Drama) degree program is designed for students who plan to transfer to a four-year institution where they will major in the area of performing or teaching fine arts. The program provides general education courses as well as those courses designed for the area of specialization.

This curriculum complies with the standard approved by the State Board of Community Colleges.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, ENG 090, RED 090, BIO 090, CHM 092, MAT 060, MAT 070, and/or MAT 080.

			Class	Lab	Clinic	Work	Credit	Exp.
<b>English Composition</b> (6 semester hours required)								
ENG	111	Expository Writing	3	0	0	0	3	
ENG	113	Literature Based Research	3	0	0	0	3	
Subtotal								(6)
<b>History</b> (3 semester hours required)								
Select 3 semester credit hours from the following:								
HIS	111	World Civilizations I	3	0	0	0	3	
HIS	112	World Civilizations II	3	0	0	0	3	
Subtotal								(3)
<b>Literature</b> (3 semester hours required)								
Select 3 semester credit hours from the following:								
ENG	231	American Literature I	3	0	0	0	3	
ENG	232	American Literature II	3	0	0	0	3	
ENG	233	Major American Writers	3	0	0	0	3	
ENG	241	British Literature I	3	0	0	0	3	
ENG	242	British Literature II	3	0	0	0	3	
ENG	262	World Literature II	3	0	0	0	3	
Subtotal								(3)
<b>Humanities/Fine Arts</b> (3 semester hours required)								
Select 3 semester credit hours from the following:								
ART	111	Art Appreciation	3	0	0	0	3	
COM	231	Public Speaking	3	0	0	0	3	
DRA	111	Theatre Appreciation	3	0	0	0	3	
DRA	112	Literature of the Theatre	3	0	0	0	3	
HUM	110	Technology and Society	3	0	0	0	3	
HUM	211	Humanities I	3	0	0	0	3	
HUM	212	Humanities II	3	0	0	0	3	
MUS	110	Music Appreciation	3	0	0	0	3	
PHI	210	History of Philosophy	3	0	0	0	3	
PHI	240	Introduction to Ethics	3	0	0	0	3	
REL	110	World Religions	3	0	0	0	3	
Subtotal								(3)
<b>Social/Behavioral Science</b> (6 semester hours required)								
Select two courses from two different discipline areas:								
ECO	151	Survey of Economics	3	0	0	0	3	
ECO	251	Prin. of Microeconomics	3	0	0	0	3	

GEO	111	World Regional Geography	3	0	0	0	3
GEO	130	General Physical Geography	3	0	0	0	3
POL	120	American Government	3	0	0	0	3
PSY	150	General Psychology	3	0	0	0	3
SOC	210	Introduction to Sociology	3	0	0	0	3
SOC	213	Sociology of the Family	3	0	0	0	3
SOC	220	Social Problems	3	0	0	0	3
		Subtotal					(6)

**Mathematics** (3 semester hours required) Select 3 semester credit hours from the following:

MAT	140	Survey of Mathematics	3	0	0	0	3
MAT	140A	Survey of Mathematics Lab*	0	2	0	0	1
MAT	161	College Algebra	3	0	0	0	3
MAT	161A	College Algebra Lab*	0	2	0	0	1
MAT	171	Pre-Calculus Algebra	3	0	0	0	3
MAT	171A	Pre-Calculus Algebra Lab*	0	2	0	0	1
		Subtotal					(3)

**Sciences** (4 semester hours required) Select 4 semester credit hours from the following:

BIO	111	General Biology I	3	3	0	0	4
CHM	151	General Chemistry I	3	3	0	0	4
		Subtotal					(4)

**Other Required Hours**

ACA	115	Success and Study Skills	0	2	0	0	1
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**Note:** ACA 115 - Success and Study Skills is a required course for all degree and diploma programs at BRCC but is not part of the Comprehensive Articulation Agreement for transferability. Students should take this course their first semester or in the semester required by their particular program. Students who are enrolled as special credit students should take this course before they have completed 12 semester hours. Required Drama Courses (14 semester hours required)

DRA	120	Voice for Performance	3	0	0	0	3
DRA	130	Acting I	0	6	0	0	3
DRA	131	Acting II	0	6	0	0	3
DRA	140	Stagecraft I	0	6	0	0	3
DRA	145	Stage Make-up	1	2	0	0	2
		Subtotal					(14)

**Play Production Requirements** (3 semester hours required) Select 3 semester credit hours from the following:

DRA	170	Play Production I	0	9	0	0	3
DRA	171	Play Production II	0	9	0	0	3
DRA	270	Play Production III	0	9	0	0	3
DRA	271	Play Production IV	0	9	0	0	3
		Subtotal					(3)

**Drama Electives** (6 semester hours required) Select 6 semester credit hours from the following:

DRA	112	Literature of the Theatre	3	0	0	0	3
DRA	115	Theatre Criticism	3	0	0	0	3
DRA	122	Oral Interpretation	3	0	0	0	3
DRA	124	Readers Theatre	3	0	0	0	3
DRA	128	Children's Theatre	3	0	0	0	3
DRA	141	Stagecraft II	0	6	0	0	3
DRA	142	Costuming	2	2	0	0	3
DRA	135	Acting for the Camera I	1	4	0	0	3
DRA	136	Acting for the Camera II	1	4	0	0	3
DRA	150	Stage Management	3	0	0	0	3
DRA	160	Box Office and Publicity	1	3	0	0	2
DRA	211	Theatre History I	3	0	0	0	3
DRA	212	Theatre History II	3	0	0	0	3
DRA	240	Lighting for the Theatre	2	2	0	0	3

DRA	243	Scene Design	2	2	0	0	3
DRA	250	Theatre Management	1	3	0	0	2
DRA	260	Directing	0	6	0	0	3
		Subtotal					(6)

### Program Electives

(13 semester hours required) Select 13 semester credit hours from the following:

ART	131	Drawing I	0	6	0	0	3
ART	132	Drawing II	0	6	0	0	3
ART	283	Ceramics I	0	6	0	0	3
ART	284	Ceramics II	0	6	0	0	3
BUS	110	Introduction to Business	3	0	0	0	3
BUS	115	Business Law I	3	0	0	0	3
CIS	110	Introduction to Computers	2	2	0	0	3
CIS	115	Intro to Programming and Logic	2	2	0	0	3
CSC	134	C++ Programming	2	3	0	0	3
DRA	115	Theatre Criticism	3	0	0	0	3
DRA	135	Acting for the Camera I	1	4	0	0	3
DRA	136	Acting for the Camera II	1	4	0	0	3
DRA	160	Box Office and Publicity	1	3	0	0	2
HEA	112	First Aid & CPR	1	2	0	0	2
HIS	151	Hispanic Civilization	3	0	0	0	3
HIS	162	Women and History	3	0	0	0	3
HIS	221	African-American History	3	0	0	0	3
HIS	227	Native American History	3	0	0	0	3
HIS	231	Recent American History	3	0	0	0	3
HIS	233	History of Appalachia	3	0	0	0	3
HIS	234	Cherokee History	3	0	0	0	3
MUS	151	Class Music I	0	2	0	0	1
MUS	152	Class Music II	0	2	0	0	1
MUS	251	Class Music III	0	2	0	0	1
MUS	252	Class Music IV	0	2	0	0	1
PED	110	Fit and Well for Life	1	2	0	0	2
PED	111	Physical Fitness I	0	3	0	0	1
PED	117	Weight Training I	0	3	0	0	1
PED	118	Weight Training II	0	3	0	0	1
PED	120	Walking for Fitness	0	3	0	0	1
PED	121	Walk, Jog, Run	0	3	0	0	1
PED	125	Self-Defense-Beginning	0	2	0	0	1
PED	128	Golf-Beginning	0	2	0	0	1
PED	130	Tennis-Beginning	0	2	0	0	1
PED	132	Racquetball-Beginning	0	2	0	0	1
PED	137	Badminton	0	2	0	0	1
PED	139	Bowling-Beginning	0	2	0	0	1
PED	143	Volleyball-Beginning	0	2	0	0	1
PED	145	Basketball-Beginning	0	2	0	0	1
PED	147	Soccer	0	2	0	0	1
PED	148	Softball	0	2	0	0	1
PED	152	Swimming-Beginning	0	2	0	0	1
PED	160	Canoeing-Basic	0	2	0	0	1
PED	173	Rock Climbing	0	2	0	0	1
PED	181	Snow Skiing-Beginning	0	2	0	0	1
PED	256	Coaching Baseball	1	2	0	0	2
POL	130	State and Local Government	3	0	0	0	3
SOC	215	Group Processes	3	0	0	0	3
		Subtotal					(13)

\*Denotes a corequisite, course cannot be taken by itself.

## Transfer Program

### Associate in Fine Arts—Music

The Associate in Fine Arts (Music) degree program is designed for students who plan to transfer to a four-year institution where they will major in the area of performing or teaching fine arts. The program provides general education courses as well as those courses designed for the area of specialization.

This curriculum complies with the standard approved by the State Board of Community Colleges.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, ENG 090, RED 090, BIO 090, CHM 092, MAT 060, MAT 070, and/or MAT 080. Prerequisites for International Languages may include FRE 110, GER 110, or SPA 110.

	Class	Lab	Clinic	Work Exp.	Credit
<b>English Composition</b> (6 semester hours required)					
ENG 111	Expository Writing	3	0	0	3
ENG 113	Literature Based Research	3	0	0	3
	Subtotal				(6)

**Humanities/Fine Arts** (6 semester hours required. Select 6 semester credit hours, one course from each of the following groups)

#### Literature

ENG 231	American Literature I	3	0	0	0	3
ENG 232	American Literature II	3	0	0	0	3
ENG 233	Major American Writers	3	0	0	0	3
ENG 241	British Literature I	3	0	0	0	3
ENG 242	British Literature II	3	0	0	0	3
ENG 262	World Literature II	3	0	0	0	3

#### Humanities/Fine Arts

ART 111	Art Appreciation	3	0	0	0	3
COM 231	Public Speaking	3	0	0	0	3
DRA 111	Theatre Appreciation	3	0	0	0	3
DRA 112	Literature of the Theatre	3	0	0	0	3
FRE 111	Elementary French I	3	0	0	0	3
FRE 112	Elementary French II	3	0	0	0	3
FRE 181	French Lab 1*	0	2	0	0	1
FRE 182	French Lab 2*	0	2	0	0	1
GER 111	Elementary German I	3	0	0	0	3
GER 181	German Lab I*	0	2	0	0	1
GER 112	Elementary German II	3	0	0	0	3
GER 182	German Lab II*	0	2	0	0	1
HUM 110	Technology and Society	3	0	0	0	3
HUM 211	Humanities I	3	0	0	0	3
HUM 212	Humanities II	3	0	0	0	3
PHI 210	History of Philosophy	3	0	0	0	3
PHI 240	Introduction to Ethics	3	0	0	0	3
REL 110	World Religions	3	0	0	0	3
SPA 111	Elementary Spanish I	3	0	0	0	3
SPA 181	Spanish Lab I*	0	2	0	0	1
SPA 112	Elementary Spanish II	3	0	0	0	3

SPA	182	Spanish Lab II*	0	2	0	0	1
SPA	211	Intermediate Spanish I	3	0	0	0	3
SPA	281	Spanish Lab 3*	0	2	0	0	1
SPA	212	Intermediate Spanish II	3	0	0	0	3
SPA	282	Spanish Lab 4*	0	2	0	0	1
		Subtotal					(6)

**Social/Behavioral Sciences** (9 semester hours required. Select 9 semester credit hours from three of the following discipline areas. Note: History 111 or 112 is required.)

**Anthropology**

ANT	210	General Anthropology	3	0	0	0	3
ANT	220	Cultural Anthropology	3	0	0	0	3

**Economics**

ECO	151	Survey of Economics	3	0	0	0	3
ECO	251	Prin. of Microeconomics	3	0	0	0	3

**Geography**

GEO	111	World Regional Geography	3	0	0	0	3
GEO	130	General Physical Geography	3	0	0	0	3

**History**

HIS	111	World Civilizations I	3	0	0	0	3
HIS	112	World Civilizations II	3	0	0	0	3

**Political Science**

POL	120	American Government	3	0	0	0	3
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**Psychology**

PSY	150	General Psychology	3	0	0	0	3
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**Sociology**

SOC	210	Introduction to Sociology	3	0	0	0	3
SOC	213	Sociology of the Family	3	0	0	0	3
SOC	220	Social Problems	3	0	0	0	3
		Subtotal					(9)

**Mathematics** (3 semester hours required) Select 3 semester credit hours from the following:

MAT	140	Survey of Mathematics	3	0	0	0	3
MAT	140A	Survey of Mathematics Lab*	0	2	0	0	1
MAT	161	College Algebra	3	0	0	0	3
MAT	161A	College Algebra Lab*	0	2	0	0	1
MAT	171	Pre-Calculus Algebra	3	0	0	0	3
MAT	171A	Pre-Calculus Algebra Lab*	0	2	0	0	1
		Subtotal					(3)

**Sciences** (4 semester hours required)

BIO	111	General Biology I	3	3	0	0	4
CHM	151	General Chemistry I	3	3	0	0	4
PHY	151	College Physics I	3	2	0	0	4
		Subtotal					(4)

**Other Required Hours**

ACA	115	Success and Study Skills	0	2	0	0	1
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**Note:** ACA 115 - Success and Study Skills is a required course for all degree and diploma programs at BRCC but is not part of the Comprehensive Articulation Agreement for transferability. Students should take this course their first semester or in the semester required by their particular program. Students who are enrolled as special credit students should take this course before they have completed 12 semester hours.

**Other Required Courses** (30 semester hours required)

MUS 121	Music Theory I	3	2	0	0	4
MUS 122	Music Theory II	3	2	0	0	4
MUS 141	Ensemble I	0	2	0	0	1
MUS 142	Ensemble II	0	2	0	0	1
MUS 151	Class Music I	0	2	0	0	1
MUS 152	Class Music II	0	2	0	0	1
MUS 161	Applied Music I	1	2	0	0	2
MUS 162	Applied Music II	1	2	0	0	2
MUS 221	Music Theory III	3	2	0	0	4
MUS 222	Music Theory IV	3	2	0	0	4
MUS 241	Ensemble III	0	2	0	0	1
MUS 242	Ensemble IV	0	2	0	0	1
MUS 261	Applied Music III	1	2	0	0	2
MUS 262	Applied Music IV	1	2	0	0	2
	Subtotal					(30)

**Electives** (6 semester hours required) Select from the above courses and the Electives listed below.

MUS 110	Music Appreciation	3	0	0	0	3
MUS 251	Class Music III	0	2	0	0	1
MUS 252	Class Music IV	0	2	0	0	1
MUS 270	Music Literature	3	0	0	0	3
MUS 271	Music History I	3	0	0	0	3
MUS 272	Music History II	3	0	0	0	3
	Subtotal					(6)

\*Denotes a corequisite, course cannot be taken by itself.

**Total Semester Credit Hours in Program ..... 65**

## Transfer Program Associate in Science

The Associate in Science degree program is designed for students who plan to transfer to a four-year institution for their baccalaureate degree. It is flexible in design to meet the needs of students who will be majoring in different fields at the four-year level.

This curriculum complies with the standard approved by the State Board of Community Colleges. It meets the requirements for the Comprehensive Articulation Agreement between the North Carolina University System and the Community College System.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, ENG 090, RED 090, BIO 090, CHM 092, MAT 060, MAT 070, and/or MAT 080. Prerequisites for International Languages may include FRE 110, GER 110, or SPA 110.

### GENERAL EDUCATION CORE

			Class	Lab	Clinic	Work Exp.	Credit
<b>English Composition</b> (6 semester hours required)							
ENG	111	Expository Writing	3	0	0	0	3
ENG	113	Literature Based Research	3	0	0	0	3
		Subtotal					(6)

**Humanities/Fine Arts** (9 semester hours required.) Three courses from three different discipline areas are required. One course must be literature.)

#### Art

ART	111	Art Appreciation	3	0	0	0	3
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#### Communications

COM	231	Public Speaking	3	0	0	0	3
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#### Drama

DRA	111	Theater Appreciation	3	0	0	0	3
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#### Humanities

HUM	110	Technology and Society	3	0	0	0	3
HUM	211	Humanities I	3	0	0	0	3
HUM	212	Humanities II	3	0	0	0	3

#### Literature

ENG	231	American Literature I	3	0	0	0	3
ENG	232	American Literature II	3	0	0	0	3
ENG	233	Major American Writers	3	0	0	0	3
ENG	241	British Literature I	3	0	0	0	3
ENG	242	British Literature II	3	0	0	0	3
ENG	262	World Literature II	3	0	0	0	3

#### Music

MUS	110	Music Appreciation	3	0	0	0	3
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#### Philosophy

PHI	210	History of Philosophy	3	0	0	0	3
PHI	240	Introduction to Ethics	3	0	0	0	3

**Religion**

REL	110	World Religions	3	0	0	0	3
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**International Languages**

ASL	111	Elementary ASL I	3	0	0	0	3
ASL	181	ASL Lab 1*	0	2	0	0	1
ASL	112	Elementary ASL II	3	0	0	0	3
ASL	182	ASL Lab 2*	0	2	0	0	1
ASL	211	Intermediate ASL I	3	0	0	0	3
ASL	281	ASL Lab 3*	0	2	0	0	1
ASL	212	Intermediate ASL II	3	0	0	0	3
ASL	282	ASL Lab 4*	0	2	0	0	1
FRE	111	Elementary French I	3	0	0	0	3
FRE	181	French Lab 1*	0	2	0	0	1
FRE	112	Elementary French II	3	0	0	0	3
FRE	182	French Lab 2*	0	2	0	0	1
FRE	211	Intermediate French I	3	0	0	0	3
FRE	281	French Lab 3*	0	2	0	0	1
FRE	212	Intermediate French II	3	0	0	0	3
FRE	282	French Lab 4*	0	2	0	0	1
GER	111	Elementary German I	3	0	0	0	3
GER	112	Elementary German II	3	0	0	0	3
GER	181	German Lab I*	0	2	0	0	1
GER	182	German Lab II*	0	2	0	0	1
SPA	111	Elementary Spanish I	3	0	0	0	3
SPA	181	Spanish Lab I*	0	2	0	0	1
SPA	112	Elementary Spanish II	3	0	0	0	3
SPA	182	Spanish Lab II*	0	2	0	0	1
SPA	211	Intermediate Spanish I	3	0	0	0	3
SPA	281	Spanish Lab 3*	0	2	0	0	1
SPA	212	Intermediate Spanish II	3	0	0	0	3
SPA	282	Spanish Lab 4*	0	2	0	0	1
		Subtotal					(9)

**Social/Behavioral Sciences** (9 semester hours required.) Three courses must be selected from three different discipline areas. Note: HIS 111 or HIS 112 is required.

**Anthropology**

ANT	210	General Anthropology	3	0	0	0	3
ANT	220	Cultural Anthropology	3	0	0	0	3

**Economics**

ECO	151	Survey of Economics	3	0	0	0	3
ECO	251	Principles of Microeconomics	3	0	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	0	3

**Geography**

GEO	111	World Regional Geography	3	0	0	0	3
GEO	130	General Physical Geography	3	0	0	0	3

**History**

HIS	111	World Civilizations I	3	0	0	0	3
HIS	112	World Civilizations II	3	0	0	0	3
HIS	131	American History I	3	0	0	0	3
HIS	132	American History II	3	0	0	0	3

**Political Science**

POL	120	American Government	3	0	0	0	3
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**Psychology**

PSY 150	General Psychology	3	0	0	0	3
PSY 237	Social Psychology	3	0	0	0	3
PSY 241	Developmental Psychology	3	0	0	0	3
PSY 281	Abnormal Psychology	3	0	0	0	3

**Sociology**

SOC 210	Introduction to Sociology	3	0	0	0	3
SOC 213	Sociology of the Family	3	0	0	0	3
SOC 220	Social Problems	3	0	0	0	3
	Subtotal					(9)

**Natural /Physical Sciences** (8 semester credit hours required from the following)

Select a two-course sequence, including accompanying Laboratory work, from the biological or physical science disciplines.

BIO 111	General Biology I	3	3	0	0	4
BIO 112	General Biology II	3	3	0	0	4
CHM 151	General Chemistry I	3	3	0	0	4
CHM 152	General Chemistry II	3	3	0	0	4
PHY 151	College Physics I	3	2	0	0	4
PHY 152	College Physics II	3	2	0	0	4
PHY 251	General Physics I	3	3	0	0	4
PHY 252	General Physics II	3	3	0	0	4
	Subtotal					(8)

**Mathematics** (6 semester hours required from the following)

Note: MAT 171/171A is required

MAT 171	Pre-Calculus Algebra or higher	3	0	0	0	3
MAT 171A	Precalculus Algebra Lab*	0	2	0	0	1
MAT 172	Pre-Calculus Trigonometry	3	0	0	0	3
MAT 172A	Precalculus Trig Lab*	0	2	0	0	1
MAT 271	Calculus I	3	2	0	0	4
	Subtotal					(6)

**Natural and Physical Sciences/Mathematics** (6 semester hours required). Science or Mathematics courses which have not been previously selected may be chosen here.)

**Natural /Physical Sciences**

AST 111	Descriptive Astronomy	3	0	0	0	3
AST 111A	Descriptive Astronomy Lab*	0	2	0	0	1
BIO 120	Introductory Botany	3	3	0	0	4
BIO 130	Introductory Zoology	3	3	0	0	4
BIO 140	Environmental Biology	3	0	0	0	3
BIO 140A	Environmental Biology Lab*	0	3	0	0	3
CHM 151	General Chemistry I	3	3	0	0	4
CHM 152	General Chemistry II	3	3	0	0	4
GEL 120	Physical Geology	3	2	0	0	4
PHY 110	Conceptual Physics	3	0	0	0	3
PHY 110A	Conceptual Physics Lab*	0	2	0	0	1
PHY 151	College Physics I	3	2	0	0	4
PHY 152	College Physics II	3	2	0	0	4
PHY 251	General Physics I	3	3	0	0	4
PHY 252	General Physics II	3	3	0	0	4

**Mathematics**

MAT 151	Statistics I	3	0	0	0	3
MAT 151A	Statistics I Lab*	0	2	0	0	1
MAT 175	Pre-Calculus	4	0	0	0	4
MAT 175A	Pre-Calculus Lab*	0	2	0	0	1
MAT 271	Calculus I	3	2	0	0	4

MAT	272	Calculus II	3	2	0	0	4
MAT	273	Calculus III	3	2	0	0	4
		Subtotal					(6)

**OTHER REQUIRED HOURS**

ACA	115	Success and Study Skills	0	2	0	0	1
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**Note:** ACA 115 - Success and Study Skills is a required course for all degree and diploma programs at BRCC but is not part of the Comprehensive Articulation Agreement for transferability. Students should take this course their first semester or in the semester required by their particular program. Students who are enrolled as special credit students should take this course before they have completed 12 semester hours.

Select 20 hours from the above course and the Electives listed below.

Note: A minimum of 14 semester hours credit of college transfer courses in mathematics, natural sciences, computer, and/or other pre-major courses is required.

**Mathematics/Natural and Physical Science/Computer Science Electives** (14 semester hours)**Computer Science**

CIS	110	Introduction to Computers	2	2	0	0	3
CIS	115	Intro to Programming and Logic	2	2	0	0	3
CSC	134	C++ Programming	2	3	0	0	3
CSC	151	JAVA Programming	2	3	0	0	3

**Natural/Physical Sciences**

AST	111	Descriptive Astronomy	3	0	0	0	3
AST	111A	Descriptive Astronomy Lab*	0	2	0	0	1
BIO	120	Introductory Botany	3	3	0	0	4
BIO	130	Introductory Zoology	3	3	0	0	4
BIO	140	Environmental Biology	3	0	0	0	3
BIO	140A	Environmental Biology Lab*	0	3	0	0	3
BIO	165	Anatomy and Physiology I	3	3	0	0	4
BIO	166	Anatomy and Physiology II	3	3	0	0	4
BIO	175	General Microbiology	2	2	0	0	3
BIO	176	Adv General Microbiology	1	2	0	0	2
CHM	131	Introduction to Chemistry	3	0	0	0	3
CHM	131A	Introduction to Chemistry Lab*	0	3	0	0	1
CHM	132	Organic and Biochemistry	3	3	0	0	4
CHM	151	General Chemistry I	3	3	0	0	4
CHM	152	General Chemistry II	3	3	0	0	4
GEL	120	Physical Geology	3	2	0	0	4
PHY	151	College Physics I	3	2	0	0	4
PHY	152	College Physics II	3	2	0	0	4
PHY	251	General Physics I	3	3	0	0	4
PHY	252	General Physics II	3	3	0	0	4

**Mathematics**

MAT	271	Calculus I	3	2	0	0	4
MAT	272	Calculus II	3	2	0	0	4
MAT	273	Calculus III	3	2	0	0	4
		Subtotal					(14)

**Other Electives** (6 semester hours)**Health and Physical Education Electives** (Select 2 semester hours from the following)

HEA	112	First Aid & CPR	1	2	0	0	2
PED	110	Fit and Well for Life	1	2	0	0	2
PED	111	Physical Fitness I	0	3	0	0	1
PED	117	Weight Training I	0	3	0	0	1

PED	118	Weight Training II	0	3	0	0	1
PED	119	Circuit Training	0	3	0	0	1
PED	120	Walking for Fitness	0	3	0	0	1
PED	121	Walk, Jog, Run	0	3	0	0	1
PED	122	Yoga I	0	2	0	0	1
PED	123	Yoga II	0	2	0	0	1
PED	125	Self-Defense-Beginning	0	2	0	0	1
PED	128	Golf-Beginning	0	2	0	0	1
PED	130	Tennis-Beginning	0	2	0	0	1
PED	132	Raquetball - Beginning	0	2	0	0	1
PED	137	Badminton	0	2	0	0	1
PED	139	Bowling-Beginning	0	2	0	0	1
PED	143	Volleyball-Beginning	0	2	0	0	1
PED	145	Basketball-Beginning	0	2	0	0	1
PED	147	Soccer	0	2	0	0	1
PED	148	Softball	0	2	0	0	1
PED	152	Swimming-Beginning	0	2	0	0	1
PED	160	Canoeing-Basic	0	2	0	0	1
PED	173	Rock Climbing	0	2	0	0	1
PED	181	Snow Skiing-Beginning	0	2	0	0	1

### General Electives

ANT	210	General Anthropology	3	0	0	0	3
ANT	220	Cultural Anthropology	3	0	0	0	3
ART	131	Drawing I	0	6	0	0	3
ART	132	Drawing II	0	6	0	0	3
ART	264	Digital Photography I	1	4	0	0	3
ART	265	Digital Photography II	1	4	0	0	3
ART	283	Ceramics I	0	6	0	0	3
ART	284	Ceramics II	0	6	0	0	3
AST	111	Descriptive Astronomy	3	0	0	0	3
AST	111A	Descriptive Astronomy Lab*	0	2	0	0	1
BIO	120	Introductory Botany	3	3	0	0	4
BIO	130	Introductory Zoology	3	3	0	0	4
BIO	140	Environmental Biology	3	0	0	0	3
BIO	140A	Environmental Biology Lab*	0	3	0	0	3
BIO	165	Anatomy and Physiology I	3	3	0	0	4
BIO	166	Anatomy and Physiology II	3	3	0	0	4
BIO	175	General Microbiology	2	2	0	0	3
BIO	176	Adv General Microbiology	1	2	0	0	2
BUS	110	Introduction to Business	3	0	0	0	3
BUS	115	Business Law I	3	0	0	0	3
CHM	131	Introduction to Chemistry	3	0	0	0	3
CHM	131A	Introduction to Chemistry Lab*	0	3	0	0	1
CHM	132	Organic and Biochemistry	3	3	0	0	4
CHM	151	General Chemistry I	3	3	0	0	4
CHM	152	General Chemistry II	3	3	0	0	4
CIS	110	Introduction to Computers	2	2	0	0	3
CIS	115	Intro to Programming and Logic	2	2	0	0	3
COM	120	Interpersonal Communication	3	0	0	0	3
COM	140	Intro to Intercultural Comm	3	0	0	0	3
COM	160	Small Group Communication	3	0	0	0	3
COM	231	Public Speaking	3	0	0	0	3
CSC	134	C++ Programming	2	3	0	0	3
CSC	151	JAVA Programming	2	3	0	0	3
DRA	130	Acting I	0	6	0	0	3
DRA	131	Acting II	0	6	0	0	3
ECO	251	Principles of Microeconomics	3	0	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	0	3
ENG	125	Creative Writing I	3	0	0	0	3

ENG	126	Creative Writing II	3	0	0	0	3
ENG	231	American Literature I	3	0	0	0	3
ENG	232	American Literature II	3	0	0	0	3
ENG	233	Major American Writers	3	0	0	0	3
ENG	241	British Literature I	3	0	0	0	3
ENG	242	British Literature II	3	0	0	0	3
ENG	262	World Literature II	3	0	0	0	3
FRE	161	Cultural Immersion	2	3	0	0	3
GEL	120	Physical Geology	3	2	0	0	4
HIS	111	World Civilizations I	3	0	0	0	3
HIS	112	World Civilizations II	3	0	0	0	3
HIS	131	American History I	3	0	0	0	3
HIS	132	American History II	3	0	0	0	3
HUM	110	Technology and Society	3	0	0	0	3
HUM	123	Appalachian Culture	3	0	0	0	3
HUM	211	Humanities I	3	0	0	0	3
HUM	212	Humanities II	3	0	0	0	3
MAT	151	Statistics I	3	0	0	0	3
MAT	151A	Statistics I Lab*	0	2	0	0	1
MAT	161	College Algebra	3	0	0	0	3
MAT	161A	College Algebra Lab*	0	2	0	0	1
MAT	165	Finite Mathematics	3	0	0	0	3
MUS	110	Music Appreciation	3	0	0	0	3
MUS	151	Class Music I	0	2	0	0	1
MUS	152	Class Music II	0	2	0	0	1
MUS	251	Class Music III	0	2	0	0	1
MUS	252	Class Music IV	0	2	0	0	1
PHI	210	History of Philosophy	3	0	0	0	3
PHI	240	Introduction to Ethics	3	0	0	0	3
POL	120	American Government	3	0	0	0	3
POL	130	State and Local Government	3	0	0	0	3
PSY	150	General Psychology	3	0	0	0	3
PSY	237	Social Psychology	3	0	0	0	3
PSY	241	Developmental Psychology	3	0	0	0	3
PSY	281	Abnormal Psychology	3	0	0	0	3
REL	110	World Religions	3	0	0	0	3
SOC	210	Introduction to Sociology	3	0	0	0	3
SOC	213	Sociology of the Family	3	0	0	0	3
SOC	215	Group Processes	3	0	0	0	3
SOC	220	Social Problems	3	0	0	0	3
SPA	161	Cultural Immersion	2	3	0	0	3
		Subtotal					(6)

\*Denotes a corequisite, course cannot be taken by itself.

**Total Semester Credit Hours in Program ..... 65**

## Transfer Program

### Associate in Science

#### Transfer Core Diploma

The Associate in Sciences Transfer Core Diploma is designed for students who plan to transfer to a four-year institution for their baccalaureate degree. This diploma is designed to allow students to complete their general education core requirements and then transfer to a four-year institution. It is flexible in design to meet the needs of students who will be majoring in different fields at the four-year level.

This diploma complies with the standard approved by the State Board of Community Colleges. The general education core is the first level of completion that allows transfer students to take advantage of the terms of the Comprehensive Articulation Agreement.

The general education core is the first level of completion that allows transfer students to take advantage of the terms of the Comprehensive Articulation Agreement.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, ENG 090, RED 090, BIO 090, CHM 092, MAT 060, MAT 070, and/or MAT 080. Prerequisites for International Languages may include FRE 110, GER 110, or SPA 110.

#### GENERAL EDUCATION CORE

This 44 semester hour core of courses, with a grade of "C" or better, meets the general education core requirements.

			Class	Lab	Clinic	Work Exp.	Credit
<b>English Composition</b> (6 semester hours required)							
ENG	111	Expository Writing	3	0	0	0	3
ENG	113	Literature Based Research	3	0	0	0	3
		Subtotal					(6)
<b>Humanities/Fine Arts</b>							
(9 semester hours required. Three courses from three different discipline areas are required. One course must be literature.)							
<b>Art</b>							
ART	111	Art Appreciation	3	0	0	0	3
<b>Communications</b>							
COM	231	Public Speaking	3	0	0	0	3
<b>Drama</b>							
DRA	111	Theater Appreciation	3	0	0	0	3
<b>Humanities</b>							
HUM	110	Technology and Society	3	0	0	0	3
HUM	211	Humanities I	3	0	0	0	3
HUM	212	Humanities II	3	0	0	0	3
<b>Literature</b>							
ENG	231	American Literature I	3	0	0	0	3
ENG	232	American Literature II	3	0	0	0	3
ENG	233	Major American Writers	3	0	0	0	3
ENG	241	British Literature I	3	0	0	0	3

ENG	242	British Literature II	3	0	0	0	3
ENG	262	World Literature II	3	0	0	0	3
<b>Music</b>							
MUS	110	Music Appreciation	3	0	0	0	3
<b>Philosophy</b>							
PHI	210	History of Philosophy	3	0	0	0	3
PHI	240	Introduction to Ethics	3	0	0	0	3
<b>Religion</b>							
REL	110	World Religions	3	0	0	0	3
<b>International Languages</b>							
ASL	111	Elementary ASL I	3	0	0	0	3
ASL	181	ASL Lab 1*	0	2	0	0	1
ASL	112	Elementary ASL II	3	0	0	0	3
ASL	182	ASL Lab 2*	0	2	0	0	1
ASL	211	Intermediate ASL I	3	0	0	0	3
ASL	281	ASL Lab 3*	0	2	0	0	1
ASL	212	Intermediate ASL II	3	0	0	0	3
ASL	282	ASL Lab 4*	0	2	0	0	1
FRE	111	Elementary French I	3	0	0	0	3
FRE	181	French Lab 1*	0	2	0	0	1
FRE	112	Elementary French II	3	0	0	0	3
FRE	182	French Lab 2*	0	2	0	0	1
FRE	211	Intermediate French I	3	0	0	0	3
FRE	281	French Lab 3*	0	2	0	0	1
FRE	212	Intermediate French II	3	0	0	0	3
FRE	282	French Lab 4*	0	2	0	0	1
GER	111	Elementary German I	3	0	0	0	3
GER	181	German Lab I*	0	2	0	0	1
GER	112	Elementary German II	3	0	0	0	3
GER	182	German Lab II*	0	2	0	0	1
SPA	111	Elementary Spanish I	3	0	0	0	3
SPA	181	Spanish Lab I*	0	2	0	0	1
SPA	112	Elementary Spanish II	3	0	0	0	3
SPA	182	Spanish Lab II*	0	2	0	0	1
SPA	211	Intermediate Spanish I	3	0	0	0	3
SPA	281	Spanish Lab 3*	0	2	0	0	1
SPA	212	Intermediate Spanish II	3	0	0	0	3
SPA	282	Spanish Lab 4*	0	2	0	0	1
		Subtotal					(9)

**Social/Behavioral Sciences** (9 semester hours required.) Three courses must be selected from three different discipline areas. Note: HIS 111 or HIS 112 is required.

#### **Anthropology**

ANT	210	General Anthropology	3	0	0	0	3
ANT	220	Cultural Anthropology	3	0	0	0	3

#### **Economics**

ECO	151	Survey of Economics	3	0	0	0	3
ECO	251	Principles of Microeconomics	3	0	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	0	3

#### **Geography**

GEO	111	World Regional Geography	3	0	0	0	3
GEO	130	General Physical Geography	3	0	0	0	3

**History**

HIS	111	World Civilizations I	3	0	0	0	3
HIS	112	World Civilizations II	3	0	0	0	3
HIS	131	American History I	3	0	0	0	3
HIS	132	American History II	3	0	0	0	3

**Political Science**

POL	120	American Government	3	0	0	0	3
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**Psychology**

PSY	150	General Psychology	3	0	0	0	3
PSY	237	Social Psychology	3	0	0	0	3
PSY	241	Developmental Psychology	3	0	0	0	3
PSY	281	Abnormal Psychology	3	0	0	0	3

**Sociology**

SOC	210	Introduction to Sociology	3	0	0	0	3
SOC	213	Sociology of the Family	3	0	0	0	3
SOC	220	Social Problems	3	0	0	0	3
		Subtotal					(9)

**Natural /Physical Sciences** (8 semester credit hours required from the following)

Select a two-course sequence, including accompanying Laboratory work, from the biological or physical science disciplines.

BIO	111	General Biology I	3	3	0	0	4
BIO	112	General Biology II	3	3	0	0	4
CHM	151	General Chemistry I	3	3	0	0	4
CHM	152	General Chemistry II	3	3	0	0	4
PHY	151	College Physics I	3	2	0	0	4
PHY	152	College Physics II	3	2	0	0	4
PHY	251	General Physics I	3	3	0	0	4
PHY	252	General Physics II	3	3	0	0	4
		Subtotal					(8)

**Mathematics** (6 semester hours required from the following)

Note: MAT 171/171A is required

MAT	171	Pre-Calculus Algebra or higher	3	0	0	0	3
MAT	171A	Precalculus Algebra Lab*	0	2	0	0	1
MAT	172	Pre-Calculus Trigonometry	3	0	0	0	3
MAT	172A	Precalculus Trig Lab*	0	2	0	0	1
MAT	271	Calculus I	3	2	0	0	4
		Subtotal					(6)

**Natural and Physical Sciences/Mathematics**

(6 semester hours are required from the following courses. Science or Mathematics courses which have not been previously selected may be chosen here.)

**Natural /Physical Sciences**

AST	111	Descriptive Astronomy	3	0	0	0	3
AST	111A	Descriptive Astronomy Lab*	0	2	0	0	1
BIO	120	Introductory Botany	3	3	0	0	4
BIO	130	Introductory Zoology	3	3	0	0	4
BIO	140	Environmental Biology	3	0	0	0	3
BIO	140A	Environmental Biology Lab*	0	3	0	0	3
CHM	151	General Chemistry I	3	3	0	0	4
CHM	152	General Chemistry II	3	3	0	0	4
GEL	120	Physical Geology	3	2	0	0	4
PHY	110	Conceptual Physics	3	0	0	0	3

PHY	110A	Conceptual Physics Lab*	0	2	0	0	1
PHY	151	College Physics I	3	2	0	0	4
PHY	152	College Physics II	3	2	0	0	4
PHY	251	General Physics I	3	3	0	0	4
PHY	252	General Physics II	3	3	0	0	4

**Mathematics**

MAT	151	Statistics I	3	0	0	0	3
MAT	151A	Statistics I Lab*	0	2	0	0	1
MAT	175	Pre-Calculus	4	0	0	0	4
MAT	175A	Pre-Calculus Lab*	0	2	0	0	1
MAT	271	Calculus I	3	2	0	0	4
MAT	272	Calculus II	3	2	0	0	4
MAT	273	Calculus III	3	2	0	0	4
		Subtotal					(6)

\*Denotes a corequisite, course cannot be taken by itself.

**Total Semester Credit Hours in Program ..... 44**

## Associate in Science Pre-Major Articulation Agreements

Pre-Major Articulation Agreements are agreements between the 16-member University of North Carolina System, certain private colleges and universities, and the 58 North Carolina Community Colleges. Pre-Major Agreements have been developed as blueprints for guiding community college students who intend to major in certain areas. Upon successful completion of the associate degree, students who meet the requirements outlined in one of the pre-major tracks below will be eligible to be considered for admissions to the universities offering that major.

For more detailed information about Pre-Majors, please contact your Faculty Advisor, the Dean for Arts and Sciences, the College Transfer Coordinator in the Student Services Department, or on the web at [http://www.ga.unc.edu/student\\_info/caa](http://www.ga.unc.edu/student_info/caa).

- Engineering
- Mathematics
- Chemistry and Chemistry Education
- Biology and Biology Education

## Transfer Program—Biotechnology

### Articulated Program with Asheville-Buncombe Technical Community College

This collaborative program is designed as a modified 1 + 1 program. The first year fall and spring semester courses are general education and related courses that will be taught at the students' home colleges. The Biotechnology (BTC) courses are scheduled for the first summer and the second year; these courses will be taught at the A-B Tech Enka Campus. Additional general education and related courses scheduled during the second year may be taught at the students' home colleges. A-B Tech will award the associate of applied science degree to students who successfully complete the curriculum requirements. Please note that BTC 181 is a prerequisite for all other BTC courses.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, ENG 090, RED 090, BIO 090, CHM 092, MAT 060, MAT 070 and/or MAT 080.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
BIO	111	General Biology I	3	3	0	0	4
CHM	151	General Chemistry I	3	3	0	0	4
		Or					
CHM	131	Introduction to Chemistry	3	0	0	0	3
CHM	131A	Intro to Chemistry Lab*	0	3	0	0	1
ENG	111	Expository Writing	3	0	0	0	3
MAT	161	College Algebra	3	0	0	0	3
MAT	161A	College Algebra Lab*	0	2	0	0	1
		Subtotal					(16)
<b>Spring Semester</b>							
BIO	112	General Biology II	3	3	0	0	4
CHM	132	Organic & Biochemistry	3	3	0	0	4
MAT	151	Statistics	3	0	0	0	3
MAT	151A	Statistics Lab*	0	2	0	0	1
		Or					
MAT	155	Statistical Analysis	3	0	0	0	3
MAT	155A	Statistics Analysis Lab*	0	2	0	0	1
		Humanities Elective**					3
		Subtotal					(15)
<b>Summer Semester</b>							
BIO	275	Microbiology	3	3	0	0	4
BTC	181	Basic Lab Techniques	3	3	0	0	4
		Social/Behavioral Sciences Elective**	3	0	0	0	3
		Subtotal					(11)
<b>Fall Semester</b>							
BTC	285	Cell Culture	2	3	0	0	3
BTC	250	Molecular Genetics	3	0	0	0	3
CIS	110	Introduction to Computers	2	2	0	0	3
ENG	114	Professional Research and Reporting	3	0	0	0	3
BTC	282	Biotechnology Fermentation I	2	6	0	0	4
		Subtotal					(16)

**Spring Semester**

BTC	286	Immunological Techniques	3	3	0	0	4
BTC	270	Recombinant DNA Tech	3	3	0	0	4
BTC	283	Biotechnology Fermentation II	2	6	0	0	4
COM	231	Public Speaking	3	0	0	0	3
		Subtotal					(15)

**Summer Semester**

BTC	288	Biotech Lab Experience	0	6	0	0	2
		Or					
COE	213	Co-op Work Experience	0	0	0	30	3
		Subtotal					(2-3)

\*Denotes a corequisite, course cannot be taken by itself.

\*\*Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on pages 61-62.

**Total Semester Credit Hours in Program to be taken at BRCC..... 73-76**

## Transfer Program—Dental Hygiene

### Articulated Program with Greenville Technical College

In this program, students will complete the first year of related courses at Blue Ridge Community College, and the second year, a professional core of courses at Greenville Technical College in Greenville, South Carolina. The student will make separate application to Greenville Technical College during their first year to continue the program.

Limited spaces are available at Greenville Technical College in this program. To qualify for transfer, the student must earn a 2.5 cumulative grade point average and work closely with his/her faculty advisor. Successful completion of courses at Blue Ridge Community College does not guarantee a specific entry date at Greenville Technical College.

Students must have a unit of high school or college algebra and biology. A unit of high school chemistry is required.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, ENG 090, RED 090, BIO 090, CHM 092, MAT 060, MAT 070 and/or MAT 080.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Required Courses</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
BIO	165	Anatomy and Physiology I	3	3	0	0	4
BIO	166	Anatomy and Physiology II	3	3	0	0	4
BIO	175	General Microbiology	2	2	0	0	3
CHM	131	Introduction to Chemistry	3	3	0	0	4
CHM	132	Organic and Biochemistry	3	3	0	0	4
CIS	110	Introduction to Computers	2	2	0	0	3
COM	231	Public Speaking	3	0	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
MAT	151	Statistics I	3	0	0	0	3
MAT	151A	Statistics Lab I*	0	2	0	0	1
PSY	150	General Psychology	3	0	0	0	3
		Humanities Elective**					3

(Head and neck anatomy course should be taken at Greenville Technical College)

\*Denotes a corequisite, course cannot be taken by itself.

\*\*Humanities Electives are to be selected from the following:

PHI	240	Introduction to Ethics	3	0	0	0	3
		Or					
HIS	131	American History I	3	0	0	0	3
		Or					
HIS	132	American History II	3	0	0	0	3

**Total Semester Credit Hours to be taken at BRCC..... 39**

## Transfer Program—Occupational Therapy Assistant

### Articulated Program with Greenville Technical College

In this program, students will complete the first year of related courses at Blue Ridge Community College, and the second year, a professional core of courses at Greenville Technical College in Greenville, South Carolina. The student will make separate application to Greenville Technical College during their first year to continue the program.

Limited spaces are available at Greenville Technical College in these programs. To qualify for transfer, the student must earn a 2.5 cumulative grade point average and work closely with his/her faculty advisor. Successful completion of courses at Blue Ridge Community College does not guarantee a specific entry date at Greenville Technical College.

Students must have a unit of high school or college algebra and biology. A unit of high school chemistry is required.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, ENG 090, RED 090, BIO 090, CHM 092, MAT 060, MAT 070 and/or MAT 080.

			Class	Lab	Clinic	Work	Credit
			Exp.				
<b>Required Courses</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
BIO	165	Anatomy and Physiology I	3	3	0	0	4
BIO	166	Anatomy and Physiology II	3	3	0	0	4
CIS	110	Introduction to Computers	2	2	0	0	3
COM	231	Public Speaking	3	0	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
ENG	113	Literature Based Research	3	0	0	0	3
Either							
MAT	151	Statistics I	3	0	0	0	3
And							
MAT	151A	Statistics Lab I*	0	2	0	0	1
Or							
MAT	161	College Algebra	3	0	0	0	3
And							
MAT	161A	College Algebra Lab*	0	2	0	0	1
PSY	150	General Psychology	3	0	0	0	3
PSY	241	Developmental Psychology	3	0	0	0	3
PSY	281	Abnormal Psychology	3	0	0	0	3
Humanities Elective**							3

\*Denotes a corequisite, course cannot be taken by itself.

\*\*Humanities Electives are to be selected from the following:

PHI	240	Introduction to Ethics	3	0	0	0	3
Or							
HIS	131	American History I	3	0	0	0	3
Or							
HIS	132	American History II	3	0	0	0	3

**Total Semester Credit Hours to be taken at BRCC..... 37**

## Transfer Program—Physical Therapist Assistant Articulated Program with Greenville Technical College

In this program, students will complete the first year of related courses at Blue Ridge Community College, and the second year, a professional core of courses at Greenville Technical College in Greenville, South Carolina. The student will make separate application to Greenville Technical College during their first year to continue the program.

Limited spaces are available at Greenville Technical College in this program. To qualify for transfer, the student must earn a 2.5 cumulative grade point average and work closely with his/her faculty advisor. Successful completion of courses at Blue Ridge Community College does not guarantee a specific entry date at Greenville Technical College.

Students must have a unit of high school or college algebra and biology. A unit of high school chemistry is required.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, ENG 090, RED 090, BIO 090, CHM 092, MAT 060, MAT 070 and/or MAT 080.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Required Courses</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
BIO	165	Anatomy and Physiology I	3	3	0	0	4
BIO	166	Anatomy and Physiology II	3	3	0	0	4
CIS	110	Introduction to Computers	2	2	0	0	3
COM	231	Public Speaking	3	0	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
ENG	113	Literature Based Research	3	0	0	0	3
MAT	151	Statistics I	3	0	0	0	3
		And					
MAT	151A	Statistics Lab I*	0	2	0	0	1
OST	141	Med Terms I-Med Office	3	0	0	0	3
PSY	150	General Psychology	3	0	0	0	3
PSY	241	Developmental Psychology	3	0	0	0	3
		Humanities Elective**					3

\*Denotes a corequisite, course cannot be taken by itself.

\*\*Humanities Electives are to be selected from the following:

PHI	240	Introduction to Ethics	3	0	0	0	3
		Or					
HIS	131	American History I	3	0	0	0	3
		Or					
HIS	132	American History II	3	0	0	0	3

**Total Semester Credit Hours to be taken at BRCC..... 37**

## Web Technologies

### Associate in Applied Science Degree

The Web Technologies curriculum prepares graduates for careers in the information technology arena using computers and distributed computing to disseminate and collect information via the web.

Course work in this program covers the terminology and use of computers, network devices, networks, servers, databases, applications, programming languages, as well as web applications, site development and design. Studies will provide opportunity for students to learn related industry standards.

Graduates should qualify for career opportunities as designers, administrators, or developers in the areas of web applications, web sites, web services, and related areas of distributed computing.

This curriculum complies with the standard approved by the State Board of Community Colleges.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, ENG 090, RED 090, MAT 060, and/or MAT 070.

			Class	Lab	Clinic	Work	Credit
						Exp.	
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
CIS	110	Introduction to Computers	2	2	0	0	3
CIS	115	Intro to Programming and Logic	2	2	0	0	3
WEB	110	Internet/Web Fundamentals	2	2	0	0	3
WEB	115	Web Markup and Scripting	2	2	0	0	3
ENG	111	Expository Writing	3	0	0	0	3
		Subtotal					(16)
<b>Spring Semester</b>							
DBA	110	Database Concepts	2	2	0	0	3
MAT	140	Survey of Mathematics	3	0	0	0	3
MAT	140A	Survey of Mathematics Lab*	0	2	0	0	1
NOS	110	Operating Systems Concepts	2	2	0	0	3
WEB	120	Intro to Internet Multimedia	2	2	0	0	3
WEB	140	Web Development Tools	2	2	0	0	3
		Subtotal					(16)
<b>Summer Semester</b>							
ENG	114	Professional Research/Reporting	3	0	0	0	3
SEC	110	Security Concepts	2	2	0	0	3
WEB	210	Web Design	2	2	0	0	3
WEB	215	Advanced Markup and Scripting	2	2	0	0	3
		Subtotal					(12)
<b>Fall Semester</b>							
BUS	110	Introduction to Business	3	0	0	0	3
CSC	151	JAVA Programming	2	3	0	0	3
NET	125	Networking Basics	2	2	0	0	3
WEB	230	Implementing Web Serv	2	2	0	0	3
WEB	250	Database Driven Websites	2	2	0	0	3
		Subtotal					(15)

**Spring Semester**

WEB 289	Internet Technology Project	1	4	0	0	3
COE 111	Co-op Work Experience I	0	0	0	10	1
	Major Course Elective***					3
	Humanities Elective**					3
	Social/Behavioral Science Elective**					3
	Subtotal					(13)

\*Denotes a corequisite, course cannot be taken by itself.

\*\*Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on pages 61-62.

\*\*\*Major Course Electives are to be selected from the following:

ACC 120	Principles of Accounting	2	3	0	0	4
CSC 134	C++ Programming	2	3	0	0	3
CSC 139	Visual BASIC Programming	2	3	0	0	3
CTS 135	Integrated Software Intro	2	4	0	0	4
DBA 120	Database Programming I	2	3	0	0	3
COE 121	Co-op Work Experience II	0	0	0	10	1
COE 122	Co-op Work Experience II	0	0	0	20	2
COE 123	Co-op Work Experience II	0	0	0	30	3
WEB 111	Introduction Web Graphics	2	2	0	0	3
WEB 179	JAVA Web Programming	2	3	0	0	3
WEB 182	PHP Programming	2	2	0	0	3
WEB 220	Advanced Internet Multimedia	2	2	0	0	3
WEB 285	Emerging Web Technologies	2	2	0	0	3
	Subtotal					(3)

**Total Semester Credit Hours in Program ..... 72**

## Web Technologies Diploma

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include CIS 070, ENG 080, RED 080, ENG 090, OST 131, RED 090, MAT 060, and/or MAT 070.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ACA 115	Success and Study Skills	0	2	0	0	0	1
ENG 111	Expository Writing	3	0	0	0	0	3
CIS 110	Introduction to Computers	2	2	0	0	0	3
CIS 115	Intro to Programming/Logic	2	2	0	0	0	3
WEB 110	Internet/Web Fundamentals	2	2	0	0	0	3
WEB 115	Web Markup and Scripting	2	3	0	0	0	3
	Subtotal						(16)
<b>Spring Semester</b>							
DBA 110	Database Concepts	2	2	0	0	0	3
NOS 110	Operating Systems Concepts	2	2	0	0	0	3
MAT 140	Survey of Mathematics	3	0	0	0	0	3
MAT 140A	Survey of Mathematics Lab*	0	2	0	0	0	1
WEB 120	Intro to Internet Multimedia	2	2	0	0	0	3
WEB 140	Web Development Tools	2	2	0	0	0	3
	Subtotal						(16)

**Summer Semester**

COE 111	Co-op Work Experience	0	0	0	10	1
SEC 110	Security Concepts	2	2	0	0	3
WEB 210	Web Design	2	2	0	0	3
WEB 215	Advanced Markup and Scripting	2	2	0	0	3
	Major Course Elective***					3
	Subtotal					(13)

\*Denotes a corequisite, course cannot be taken by itself.

\*\*\*Major Course Electives are to be selected from the following:

**Total Semester Credit Hours in Program ..... 45**

**Web Technologies****Certificate**

		Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>						
WEB 110	Internet/Web Fundamentals	2	2	0	0	3
WEB 115	Web Markup and Scripting	2	3	0	0	3
	Subtotal					(6)
<b>Spring Semester</b>						
WEB 120	Intro to Internet Multimedia	2	2	0	0	3
WEB 140	Web Development Tools	2	2	0	0	3
	Subtotal					(7)
<b>Summer Semester</b>						
COE 111	Co-op Work Experience I	0	0	0	10	1
WEB 210	Web Design	2	2	0	0	3
	Subtotal					(4)
<b>Total Semester Credit Hours in Program .....</b>						<b>16</b>

## Welding Technology Diploma

The Welding Technology curriculum provides students with a sound understanding of the science, technology, and applications essential for successful employment in the welding and metal industry. Instruction includes consumable and non-consumable electrode welding and cutting processes. Courses in math, blueprint reading, metallurgy, welding inspection, and destructive and non-destructive testing provide the student with industry-standard skills developed through classroom training and practical application.

Successful graduates of the Welding Technology curriculum may be employed as entry-level technicians in welding and metalworking industries. Career opportunities also exist in construction, manufacturing, fabrication, sales, quality control, supervision, and welding-related self-employment.

This curriculum complies with the standard approved by the State Board of Community Colleges.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include ENG 080, RED 080, and/or MAT 060.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Fall Semester</b>							
ACA	115	Success and Study Skills	0	2	0	0	1
MAT	101	Applied Mathematics I	2	2	0	0	3
WLD	110	Cutting Processes	1	3	0	0	2
WLD	115	SMAW (Stick) Plate	2	9	0	0	5
WLD	141	Symbols and Specifications	2	2	0	0	3
		Major Course Elective***					3
		Subtotal					(17)
<b>Spring Semester</b>							
BUS	280	REAL Small Business	4	0	0	0	4
ENG	102	Applied Communication II	3	0	0	0	3
WLD	121	GMAW (MIG) FCAW/Plate	2	6	0	0	4
WLD	131	GTAW (TIG) Plate	2	6	0	0	4
		Major Course Elective***					2
		Subtotal					(17)
<b>Summer Semester</b>							
		Major Course Elective***					5
		Subtotal					(5)

\*\*\*Major Course Electives are to be selected from the following:

COE	111	Co-op Work Experience I	0	0	0	10	1
COE	112	Co-op Work Experience I	0	0	0	20	2
COE	114	Co-op Work Experience I	0	0	0	40	4
COE	121	Co-op Work Experience II	0	0	0	10	1
COE	122	Co-op Work Experience II	0	0	0	20	2
COE	131	Co-op Work Experience III	0	0	0	10	1
COE	211	Co-op Work Experience IV	0	0	0	10	1
PCJ	262	Hand Wrought Metals	1	3	0	0	2
PCJ	263	Advanced Wrought Metals	1	3	0	0	2
PCJ	267	Hand Wrought Joinery	1	3	0	0	2
PCS	110	Intro to Metal Sculpture	2	9	0	0	5

PCS	112	Beg. Welding for Artists	1	4	0	0	3
WLD	112	Basic Welding Processes	1	3	0	0	2
WLD	117	Industrial SMAW	1	4	0	0	3
WLD	212	Inert Gas Welding	1	3	0	0	2
WLD	261	Certification Practices	1	3	0	0	2
WLD	262	Inspection & Testing	2	2	0	0	3

**Total Semester Credit Hours in Program ..... 39**

## **Welding Technology - Basic Technician Certificate**

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include Learning Center Reading, English, and/or Math.

			Class	Lab	Clinic	Work Exp.	Credit
<b>Required Courses</b>							
WLD	115	SMAW (Stick) Plate	2	9	0	0	5
WLD	121	GMAW (MIG) FCAW/Plate	2	6	0	0	4
WLD	131	GTAW (TIG) Plate	2	6	0	0	4

**Total Semester Credit Hours in Program ..... 13**

## **Welding Technology - Intermediate Technician Certificate**

A Welding Technology - Basic Certificate is required for enrollment in the Welding Technology - Intermediate Technician Certificate program.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include Learning Center Reading, English, and/or Math .

			Class	Lab	Clinic	Work Exp.	Credit
<b>Required Courses</b>							
WLD	112	Basic Welding Processes	1	3	0	0	2
WLD	117	Industrial SMAW	1	4	0	0	3
WLD	212	Inert Gas Welding	1	3	0	0	2
WLD	261	Certification Practices	1	3	0	0	2
WLD	262	Inspection & Testing	2	2	0	0	3

**Total Semester Credit Hours in Program ..... 12**

## Welding Technology - Artist Blacksmith Certificate

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include Learning Center Reading, English, and/or Math .

			Class	Lab	Clinic	Work Exp.	Credit
<b>Required Courses</b>							
PCJ	262	Hand Wrought Metals	1	3	0	0	2
PCJ	263	Advanced Wrought Metals	1	3	0	0	2
PCJ	267	Hand Wrought Joinery	1	3	0	0	2
PCS	110	Intro to Metal Sculpture	2	9	0	0	5
PCS	112	Beg. Welding for Artists	1	4	0	0	3
<b>Total Semester Credit Hours in Program .....</b>							<b>14</b>