

# Academic Programs Offered During the 2010-2011 Academic Year

## Accounting

Associate in Applied Science Degree .....	43
Certificate - Basic Accounting-Tax.....	43
Certificate - Basic Accounting-Bookkeeping .....	44

## Air Conditioning, Heating and Refrigeration

Diploma .....	45
Certificate - Basic Technician .....	45
Certificate - Intermediate Technician .....	45

## Associate Degree Nursing

Associate in Applied Science Degree .....	46
---	----

## Automotive Systems Technology

Associate in Applied Science Degree .....	47
Diploma .....	47
Certificate - Electrical/Electronic .....	48
Certificate - Under Car .....	48

## Business Administration

Associate in Applied Science Degree .....	49
---	----

## Business Administration/Electronic Commerce

Associate in Applied Science Degree .....	50
---	----

## Business Administration/Marketing and Retailing

Associate in Applied Science Degree .....	51
Diploma .....	51

## Collision Repair and Refinishing

Diploma .....	52
Certificate - Basic.....	52
Certificate - Insurance Estimating .....	52
Certificate - Intermediate.....	52

## Community Spanish Interpreter

Associate in Applied Science Degree .....	53
---	----

## Computer Information Technology

Associate in Applied Science Degree .....	54
Diploma .....	54

## Computer Programming

Associate in Applied Science Degree .....	56
Diploma .....	57
Certificate .....	57

## Cosmetology

Associate in Applied Science Degree .....	58
Diploma .....	58
Certificate .....	59

## Cosmetology Instructor

Certificate .....	59
-------------------	----

## Criminal Justice Technology

Associate in Applied Science Degree .....	60
---	----

## Education

### Early Childhood Education

Associate in Applied Science Degree .....	61
Certificate - Preschool.....	62
Certificate - Infant/Toddler .....	62
Certificate - School-Age .....	62
Certificate - Administration .....	63

### School-Age Education

Associate in Applied Science Degree (Arts Track).....	64
Associate in Applied Science Degree (Science Track).....	66

## Electronics Engineering Technology

Associate in Applied Science Degree .....	68
Certificate - Basic.....	68
Certificate - Advanced .....	69
Certificate - Industrial .....	69

## Environmental Science Technology

Associate in Applied Science Degree .....	70
Diploma .....	70
Certificate .....	71
Certificate - Sustainability Technology .....	71

## Esthetics Instructor

Certificate .....	72
-------------------	----

## Esthetics Technology

Certificate .....	72
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## Film and Video Production Technology

Associate in Applied Science Degree .....	73
---	----

## Fire Protection Technology

Associate in Applied Science Degree .....	74
---	----

## General Education

Associate in Applied Science Degree .....	75
---	----

## General Occupational Technology

Associate in Applied Science Degree .....	76
---	----

**Horticulture Technology**

Associate in Applied Science Degree .....	77
Diploma .....	77
Certificate - Landscape Design .....	78
Certificate - Landscape Management .....	78
Certificate - Ornamental Plant Production.....	78
Certificate - Turfgrass Management.....	78

**Interpreter Education**

Associate in Applied Science Degree .....	79
Diploma .....	79
Certificate .....	80

**Machining Technology**

Associate in Applied Science Degree .....	81
Diploma .....	81

**Manicuring Instructor**

Certificate .....	82
-------------------	----

**Manicuring/Nail Technology**

Certificate .....	82
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**Mechanical Engineering Technology**

Associate in Applied Science Degree .....	83
Diploma .....	84

**Networking Technology**

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

**Office Administration**

Associate in Applied Science Degree .....	86
Diploma .....	86
Diploma - Medical Office .....	87
Certificate - Basic Office.....	87
Certificate - Medical Office .....	87

**Office Administration/Virtual Office Assistance**

Associate in Applied Science Degree .....	88
Diploma .....	88

**Plumbing**

Certificate .....	89
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**Simulation and Game Development**

Associate in Applied Science Degree .....	90
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**Surgical Technology**

Associate in Applied Science Degree .....	91
Diploma .....	91

**Transfer Programs**

Arts	
Associate in Arts.....	92
Diploma-Transfer Core.....	94
Pre-Major Articulation Agreements.....	95
Fine Arts	
Associate in Fine Arts - Art.....	96
Associate in Fine Arts - Drama.....	97
Associate in Fine Arts - Music.....	99
Science	
Associate in Science.....	101
Diploma-Transfer Core.....	104
Pre-Major Articulation Agreements.....	105
Articulated Transfer Programs	
Biotechnology.....	106
Dental Hygiene.....	107
Occupational Therapy Assistant.....	108
Physical Therapist Assistant .....	109

**Web Technologies**

Associate in Applied Science Degree .....	110
Diploma .....	110
Certificate .....	111

**Welding**

Diploma .....	112
Certificate - Basic Technician .....	112
Certificate - Intermediate Technician.....	112
Certificate - Artist Blacksmith .....	112

## 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	Credit	
					Exp.		
<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	
ACC 140	Payroll Accounting	1	2	0	0	2	
ECO 151	Survey of Economics	3	0	0	0	3	
	Or						
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 Term</b>							
ACC 180	Practices in Bookkeeping	3	0	0	0	3	
ENG 114	Prof. Research and Reporting	3	0	0	0	3	
	Major Course Elective***					3	
	Subtotal						(9)
<b>Fall Semester</b>							
ACC 129	Individual Income Taxes	2	2	0	0	3	
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	
	Subtotal						(16)

### Spring Semester

ACC 150	Accounting Software Applications1	2	0	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 39-40.

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

BUS 116	Business Law II	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 280	REAL Small Business	4	0	0	0	4	
DBA 110	Database Concepts	2	3	0	0	3	
MKT 120	Principles of Marketing	3	0	0	0	3	
OST 136	Word Processing	2	2	0	0	3	
RLS 112	Broker Prelicensing	5	0	0	0	5	

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

## Basic Accounting - Tax 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 129	Individual Income Taxes	2	2	0	0	3	
ACC 130	Business Income Taxes	2	2	0	0	3	
	Subtotal						(6)
<b>Spring Semester</b>							
ACC 120	Prin of Financial Accounting	3	2	0	0	4	
CIS 110	Introduction to Computers	2	2	0	0	3	
	Subtotal						(7)
<b>Summer Term</b>							
ACC 121	Prin of Managerial Accounting	3	2	0	0	4	
	Subtotal						(4)

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

## Basic Accounting - Bookkeeping 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.

### Fall Semester

ACC	120	Prin of Financial Accounting	3	2	0	0	4
CIS	110	Introduction to Computers	2	2	0	0	3
		Subtotal					(7)

### Spring Semester

ACC	121	Prin of Managerial Accounting	3	2	0	0	4
ACC	140	Payroll Accounting	1	2	0	0	2
		Subtotal					(6)

### Summer Term

ACC	180	Practices in Bookkeeping	3	0	0	0	3
		Subtotal					(3)

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

## 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	Credit
						Exp.	
<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
AHR	170	Heating Lab	0	3	0	0	1
MAT	101	Applied Mathematics I	2	2	0	0	3
Subtotal							(17)
<b>Spring Semester</b>							
AHR	113	Comfort Cooling	2	4	0	0	4
AHR	120	HVACR Maintenance	1	3	0	0	2
AHR	130	HVAC Controls	2	2	0	0	3
AHR	171	Comfort Cooling Lab	0	3	0	0	1
AHR	180	HVACR Customer Relations	1	0	0	0	1
BUS	280	REAL Small Business	4	0	0	0	4
ENG	102	Applied Communication II	3	0	0	0	3
Subtotal							(18)
<b>Summer Term</b>							
AHR	114	Heat Pump Technology	2	4	0	0	4
AHR	160	Refrigeration Certification	1	0	0	0	1
AHR	172	Heat Pump Lab	0	3	0	0	1
AHR	210	Residential Building Code	1	2	0	0	2
Subtotal							(8)
<b>Total Semester Credit Hours in Program</b>							<b>43</b>

## 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	Credit
						Exp.	
<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
AHR	170	Heating Lab	0	3	0	0	1
<b>Total Semester Credit Hours in Program</b>							<b>13</b>

## 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	Credit
						Exp.	
<b>Required Courses</b>							
AHR	113	Comfort Cooling	2	4	0	0	4
AHR	114	Heat Pump Technology	2	4	0	0	4
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
<b>Total Semester Credit Hours in Program</b>							<b>14</b>

## 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 10.

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, CIS 070, 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.

#### Fall Semester

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)

#### Spring Semester

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)

#### Summer Term

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)

#### Fall Semester

ENG 114	Profes 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)

#### 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 39-40.

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

## 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 and 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 Term</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 39-40.

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

AUT 141A	Suspension and 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 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)

### Spring Semester

AUT 141	Suspension and 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)

### Summer Term

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 and 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 Credit  
Exp.

### Required Courses

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

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

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

## 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 Credit  
Exp.

### Required Courses

AUT 110	Intro to Auto Technology	2	2	0	0	3
AUT 141	Suspension and Steering Sys.	2	3	0	0	3
AUT 141A	Suspension and 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

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

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

## 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.

\*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 39-40.

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

ACC 129	Individual Income Taxes	2	2	0	0	3
ACC 130	Business Income Taxes	2	2	0	0	3
ACC 150	Acct Software Appl	1	2	0	0	2
ACC 180	Practices in Bookkeeping	3	0	0	0	3
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 270	Professional Development	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
CTS 130	Spreadsheet	2	2	0	0	3
DBA 110	Database Concepts	2	3	0	0	3
ECM 210	Introduction to E-Commerce	2	2	0	0	3
MKT 123	Fundamentals of Selling	3	0	0	0	3
RLS 112	Broker Prelicensing	5	0	0	0	5
WEB 110	Internet/Web Fundamentals	2	2	0	0	3

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

Class Lab Clinic Work Credit  
Exp.

#### Fall Semester

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)

#### Spring Semester

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
	Major Course Elective***					3
	Humanities Elective**					3
	Subtotal					(16)

#### Summer Term

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)

#### Fall Semester

BUS 115	Business Law I	3	0	0	0	3
COE 111	Co-op Work Experience I	0	0	0	10	1
ECO 251	Principles of Microeconomics	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
ECO 252	Principles of Macroeconomics	3	0	0	0	3
	Subtotal					(13)

## 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 Credit  
Exp.

#### Fall Semester

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)

#### Spring Semester

CTS 130	Spreadsheet	2	2	0	0	3
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					(15)

#### Summer Term

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
	Subtotal					(9)

#### Fall Semester

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/Implement	2	2	0	0	3
MKT 120	Principles of Marketing	3	0	0	0	3
ECO 251	Principles of Microeconomics	3	0	0	0	3
	Subtotal					(16)

#### 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
	Social/Behavioral Science Elective**					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 39-40.

\*\*\*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 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 ..... 67**

## 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	Princip 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 Term</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
ECO 251	Principles of Microeconomics	3	0	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
WEB 115	Web Markup and Scripting	2	2	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
MKT 223	Customer Service	3	0	0	0	0	3
MKT 225	Marketing Research	3	0	0	0	0	3
MKT 226	Retail Applications	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 39-40.

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

BUS 153	Human Resource Management	3	0	0	0	0	3
BUS 228	Business Statistics	2	2	0	0	0	3
BUS 270	Professional Development	3	0	0	0	0	3
COE 112	Co-op Work Experience I	0	0	0	20	0	2
COE 113	Co-op Work Experience I	0	0	0	30	0	3
COE 114	Co-op Work Experience I	0	0	0	40	0	4
COE 121	Co-op Work Experience II	0	0	0	10	0	1
COE 122	Co-op Work Experience II	0	0	0	20	0	2
COE 123	Co-op Work Experience II	0	0	0	30	0	3
COE 124	Co-op Work Experience II	0	0	0	40	0	4
COE 131	Co-op Work Experience III	0	0	0	10	0	1
COE 132	Co-op Work Experience III	0	0	0	20	0	2
DBA 110	Database Concepts	2	3	0	0	0	3
ECM 210	Introduction to E-Commerce	2	2	0	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	Credit
						Exp.	
<b>Fall Semester</b>							
ACA 115	Success and Study Skills	0	2	0	0	0	1
BUS 115	Business Law I	3	0	0	0	0	3
BUS 137	Principles of Management	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						(16)

<b>Spring Semester</b>							
ACC 120	Prin of Financial Accounting	3	2	0	0	0	4
ECO 151	Survey of Economics	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 225	Marketing Research	3	0	0	0	0	3
	Subtotal						(14)

<b>Summer Term</b>							
MKT 122	Visual Merchandising	3	0	0	0	0	3
MKT 220	Advertising and Sales Promotion	3	0	0	0	0	3
MKT 226	Retail Applications	3	0	0	0	0	3
	Subtotal						(9)

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

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

## Collision Repair and Refinishing Technology Diploma

The Collision Repair and Refinishing Technology curriculum prepares individuals to become qualified technicians who possess the diverse skills required to perform quality repairs and proper refinishing techniques on automobile bodies and to diagnose and repair mechanical and electrical systems.

Coursework includes classroom and laboratory experiences that integrate technical application with academic theory. Emphasis is placed on autobody fundamentals, painting and refinishing, structural and non-structural damage repair, mechanical and electrical component repair or replacement, and common industry practices.

Graduates should be qualified to take National Institute for Automotive Service Excellence (ASE) certification examinations and also for entry-level employment in automotive dealerships, independent repair shops, or through self-employment, as collision repair and refinishing technicians.

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
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 Term</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)

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

## Collision Repair and Refinishing - 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	Credit	
							Exp.	
<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**

## Collision Repair and Refinishing - 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	Credit	
							Exp.	
<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	
CIS	110	Introduction to Computers	2	2	0	0	3	

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

## Collision Repair and Refinishing - 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	Credit	
							Exp.	
<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**

## 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 Work Credit  
Exp.

### Fall Semester

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)

### Spring Semester

ENG 114	Profes 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)

### Summer Term

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 Exp 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 39-40.

\*\*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 Comm.	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	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
Subtotal							(14)

			Class	Lab	Clinic	Work	Credit
						Exp.	
<b>Spring Semester</b>							
CTS	155	Tech Support Function	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
Major Course Elective***							3
Subtotal							(15)

			Class	Lab	Clinic	Work	Credit
						Exp.	
<b>Summer Term</b>							
NOS	130	Windows Single User	2	2	0	0	3
SEC	110	Security Concepts	3	0	0	0	3
Social/Behavioral Sciences Elective**							3
Subtotal							(9)

			Class	Lab	Clinic	Work	Credit
						Exp.	
<b>Fall Semester</b>							
BUS	110	Introduction to Business	3	0	0	0	3
CTS	217	Computer Training Support	2	2	0	0	3
CTS	285	Systems Analysis and Design	3	0	0	0	3
NET	125	Networking Basics	1	4	0	0	3
NOS	230	Windows Administration I	2	2	0	0	3
Subtotal							(15)

### Spring Semester

COE	111	Co-op Work Experience	0	0	0	10	1
CTS	120	Hardware/Software Support	2	3	0	0	3
CTS	289	System Support Project	1	4	0	0	3
Humanities 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 39-40.

\*\*\*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	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 Web sites	2	2	0	0	3

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

## 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)

			Class	Lab	Clinic	Work	Credit
						Exp.	
<b>Spring Semester</b>							
CTS	155	Tech Support Function	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)

			Class	Lab	Clinic	Work	Credit
						Exp.	
<b>Summer Term</b>							
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 Web sites	2	2	0	0	3

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

## 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	Credit	
				Exp.		
<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
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						(17)

<b>Spring Semester</b>						
CSC 134	C++ Programming	2	3	0	0	3
DBA 110	Database Concepts	2	3	0	0	3
NOS 110	Operating System Concepts	2	3	0	0	3
Social/Behavioral Science Elective**						3
Subtotal						(12)

<b>Summer Term</b>						
CSC 234	Advanced C++ Programming	2	3	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>						
CSC 151	JAVA Programming	2	3	0	0	3
CTS 285	Systems Analysis and Design	3	0	0	0	3
ENG 114	Prof. Research and Reporting	3	0	0	0	3
NET 125	Networking Basics	1	4	0	0	3
Major Course Elective***						3
Subtotal						(15)

<b>Spring Semester</b>						
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 39-40.

\*\*\*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
BUS 280	REAL Small Business	4	0	0	0	4
COE 112	Co-op Work Experience I	0	0	0	20	2
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 132	Co-op Work Experience III	0	0	0	20	2
CSC 153	C# Programming	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
SGD 113	SGD 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 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
WEB 250	Database Driven Web sites	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	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
NET	125	Networking Basics	1	4	0	0	3
CSC	151	Java Programming	2	3	0	0	3
WEB	115	Web Markup and Scripting	2	2	0	0	3
		Subtotal					(16)
<b>Spring Semester</b>							
CSC	134	C++ Programming	2	3	0	0	3
CSC	251	Advance JAVA	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
		Subtotal					(13)
<b>Summer Term</b>							
ENG	111	Expository Writing	3	0	0	0	3
SEC	110	Security Concepts	3	0	0	0	3
CSC	234	Advance C++	2	3	0	0	3
		Subtotal					(9)

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

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

## 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 and Logic	2	2	0	0	3
CSC	151	JAVA Programming	2	3	0	0	3
		Subtotal					(9)
<b>Spring Semester</b>							
CSC	134	C++ Programming	2	3	0	0	3
CSC	251	Adv Java Programming	2	3	0	0	3
		Subtotal					(6)
<b>Total Semester Credit Hours in Program ..... 15</b>							

## 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 Credit  
Exp.

#### Fall Semester

COS 111	Cosmetology Concepts I	4	2	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 Term

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)

#### Fall Semester

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 39-40.

\*\*\*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 Credit  
Exp.

#### Fall Semester

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 Term

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 and 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	Credit	
					Exp.		
<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 Term</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	Credit	
					Exp.		
<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 Credit  
Exp.

#### Fall Semester

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)

#### Spring Semester

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)

#### Summer Term

PSY 150	General Psychology	3	0	0	0	3
	Humanities Elective**					3
	Social/Behavioral Science Elective**					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 and 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 and 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 39-40.

\*\*\*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 and 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 Education

### Associate in Applied Science Degree

Class Lab Clinic Work Credit  
Exp.

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 [www.taskstream.com](http://www.taskstream.com) to show competence in the National Association for the Education of Young Children (NAYEC) Standards. Student 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. Please see the list of practicum requirements for the Early Childhood and School-Age programs on pages 11-12.

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:  
MAT 060

MAT 070 (if taking MAT 140/140A)

BIO 090 (if taking BIO 111 as science requirement)

CHM 092 and MAT 080 (if taking CHM as science requirement)

CIS 070 or test out (prerequisite for EDU 271)

ENG 080, RED 080 (prerequisite for all 100 level EDU courses except EDU 119)

ENG 090, RED 090 (prerequisite for all 200 level EDU courses)

Students must meet all prerequisites for courses in the program or elective courses they choose to take.

#### Fall Semester

ACA 115	Success and Study Skills	0	2	0	0	1
EDU 119	Intro Early Childhood Education	4	0	0	0	4
EDU 144	Child Development I	3	0	0	0	3
EDU 173	Becoming an Early Child Profes	3	0	0	0	3
ENG 111	Expository Writing	3	0	0	0	3
	Subtotal					(14)

#### Spring Semester

EDU 145	Child Development II	3	0	0	0	3
EDU 151	Creative Activities	3	0	0	0	3
EDU 271	Educational Technology	2	2	0	0	3
ENG 113	Literature Based Research	3	0	0	0	3
Or						
ENG 114	Prof. Research and Reporting	3	0	0	0	3
	Major Course Elective***					3
	Subtotal					(15)

#### Summer Term

EDU 221	Children with Exceptionalities	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
Or						
	Natural Science Requirement	3	3	0	0	4
	Social/Behavioral Science Elective**					3
	Subtotal					(10)

#### Fall Semester

EDU 131	Child, Family and Community	3	0	0	0	3
EDU 146	Child Guidance	3	0	0	0	3
EDU 153	Health, Safety, Nutrition	3	0	0	0	3
	Major Course Elective***					3
	Major Course Elective***					3
	Subtotal					(15)

#### Spring Semester

EDU 284	Early Child Capstone Practicum	1	9	0	0	4
EDU 280	Literacy Experiences	3	0	0	0	3
	Major Course Elective***					3
	Humanities Elective**					3
	Subtotal					(13)

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

\*\*Natural Science requirement is to be selected from the courses listed below:

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 140	Environmental Biology	3	0	0	0	3
BIO 140A	Environmental Biology Lab*	0	3	0	0	1
BIO 163	Basic Anatomy and physiology	4	2	0	0	5
CHM 131	Introduction to Chemistry	3	0	0	0	3
CHM 131A	Introduction to Chemistry Lab*	0	3	0	0	1
CHM 151	General Chemistry I	3	3	0	0	4
GEL 120	Physical Geology	3	2	0	0	4
PHS 130	Earth Science	3	2	0	0	4
PHY 110	Conceptual Physics	3	0	0	0	3
PHY 110A	Conceptual Physics Lab*	0	2	0	0	1

\*\*Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on pages 39-40.

\*\*\*Major Course Electives are to be selected from the following to total 12 credit hours:

BUS 137	Principles of Management	3	0	0	0	3
BUS 280	REAL Small Business	4	0	0	0	4
CIS 110	Introduction to Computers	3	0	0	0	3
EDU 163	Classroom Manage and Instruct	3	0	0	0	3
EDU 184	Early Child Intro Practicum	1	3	0	0	2
EDU 216	Foundations of Education	3	2	0	0	4
EDU 222	Learners with Behavior Disorders	3	0	0	0	3
EDU 223	Specific Learning Disabilities	3	0	0	0	3
EDU 234	Infants, Toddlers and Twos	3	0	0	0	3
EDU 235	School-Age Programs	3	0	0	0	3
EDU 259	Curriculum Planning	3	0	0	0	3
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
EDU 289	Advanced School-Age Issues	2	0	0	0	2
HEA 112	First Aid and CPR	2	0	0	0	2

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

**Early Childhood Education - Preschool  
Certificate (Equivalent to the National Preschool CDA)**

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 CIS 070, ENG 080, RED 080, and MAT 060.

**Fall Semester**

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 145	Child Development II	3	0	0	0	3
EDU 131	Child, Family and Community	3	0	0	0	3
EDU 184	Early Child Introd Practicum	1	0	0	3	2
	Subtotal					(8)

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

**Early Childhood Education -  
Infant and Toddler**

**Certificate  
(Equivalent to the National Infant-Toddler CDA)**

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 prerequisites for each course before enrolling.

Class Lab Clinic Work Credit  
Exp.

**Fall Semester**

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 131	Child, Family and Community	3	0	0	0	3
EDU 234	Infants, Toddlers, and Twos	3	0	0	0	3
EDU 234A	Infants, Toddlers, and Twos Lab	0	0	0	2	1
	Subtotal					(7)

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

## Early Childhood Education - 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 school-age 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	Credit
				Exp.	

### Fall Semester

EDU 163	Classroom Mgt. and 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)

### Spring Semester

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 Dev and Programs	3	0	0	0	3
	Subtotal					(9)

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

## Early Childhood Education - Administration Certificate

The Early Childhood Administration Certificate program prepares graduates for positions in child care settings. All courses taken for the certificate can be transferred into the Associate of Applied Science degree.

Individuals completing this certificate with a C average or better will be eligible to apply for the North Carolina Division of Child Development Early Childhood Administration 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	Credit
				Exp.	

### Summer Term

EDU 119	Intro Early Childhood Education	4	0	0	0	4
	Subtotal					(4)

### Fall Semester

BUS 280	REAL Small Business	4	0	0	0	4
EDU 261	Early Childhood Admin I	3	0	0	0	3
	Subtotal					(7)

### Spring Semester

BUS 137	Principles of Management	3	0	0	0	3
EDU 262	Early Childhood Admin II	3	0	0	0	3
	Subtotal					(6)

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

## Education - 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. Please see the list of practicum requirements for the Early Childhood and School-Age programs on pages 11-12.

**Task Stream:** Students who graduate from the program must complete an electronic portfolio in Task Stream [www.taskstream.com](http://www.taskstream.com) to show competence in the National Association for the Education of Young Children (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 Manage and Instruct	3	0	0	0	3
EDU 173	Becoming an Early Child Prof	3	0	0	0	3
ENG 111	Expository Writing	3	0	0	0	3
	Humanities Elective**					3
	Subtotal					(16)

		Class	Lab	Clinic	Work Exp.	Credit
<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
	Subtotal					(18)

### Summer Term

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

### Fall Semester

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

### Spring Semester

EDU 285	Internship Exp-School-age	1	9	0	0	4
EDU 289	Adv Issues for School-age Pop	2	0	0	0	2
	Social/Behavioral Science Elective**					3
	Humanities Elective**					3
	Science Elective**					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 below:

### English Composition (6 semester hours required)

ENG 111	Expository Writing	3	0	0	0	3
ENG 113	Literature Based Research	3	0	0	0	3
	Or					
EDU 114	Prof Research and Report	3	0	0	0	3
	Subtotal					(6)

### Humanities/Fine Arts (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)

#### Art

ART 111	Art Appreciation	3	0	0	0	3
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#### Drama

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

#### 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 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.)**

CIS 110	Introduction to Computers	3	0	0	0	3
CIS 115	Intro to Program and Logic	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
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 .....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. Please see the list of practicum requirements for the Early Childhood and School-Age programs on pages 11-12.

**Task Stream:** Students who graduate from the program must complete an electronic portfolio in Task Stream [www.taskstream.com](http://www.taskstream.com) to show competence in the National Association for the Education of Young Children (NAYEC) 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 Credit  
Exp.

#### Fall Semester

ACA 115	Success and Study Skills	0	2	0	0	1
EDU 144	Child Development I	3	0	0	0	3
EDU 163	Classroom Manage and Instruct	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
	Math Elective Lab**					1
	Subtotal					(17)

#### Spring Semester

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
	Subtotal					(18)

#### Summer Term

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

#### Fall Semester

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

#### Spring Semester

EDU 285	Intern Experience-School-age	1	9	0	0	4
EDU 289	Adv Issues School-age Populat	2	0	0	0	2
	Social/Behavioral Science Elective**					3
	Science or Math Elective**					3
	Science Elective**					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 below:

#### English Composition (6 semester hours required)

ENG 111	Expository Writing	3	0	0	0	3
ENG 113	Literature Based Research	3	0	0	0	3
OR						
ENG 114	Prof Research and Reporting	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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#### 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 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**

CIS 110	Intro to Computers	3	0	0	0	3
CIS 115	Intro to Program and Logic	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 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 .....76**

## 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	Credit
						Exp.	
<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)
<b>Summer Term</b>							
ELC	128	Introduction to PLC	2	3	0	0	3
ELN	229	Industrial Electronics	3	3	0	0	4
		Humanities Elective**					3
		Subtotal					(10)

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

<b>Spring Semester</b>							
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	3	2	0	0	4
		Major Course Elective***					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 39-40.

\*\*\*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	Credit
						Exp.	
<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

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

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

## 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 Credit  
Exp.

### Required Courses

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 Credit  
Exp.

### Required Courses

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 MAT 080.

Class Lab Clinic Work Credit  
Exp.

#### Fall Semester

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)

#### Spring Semester

ENG 114	Professional Research/Report	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)

#### Summer Term

CIS 110	Introduction to Computers	2	2	0	0	3
BIO 175	General Microbiology	2	2	0	0	3
	Major Course Elective***					6
	Subtotal					(12)

#### 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
	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 39-40.

\*\*\*Major Course Electives are to be selected from the following (9):

ALT 120	Renewable Energy Tech	2	2	0	0	3
ALT 220	Photovoltaic Sys Tech	2	3	0	0	3
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 242	Natural Resource Conserv.	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
GIS 111	Introduction to GIS	2	2	0	0	3
LID 111	LID Design Principles	2	3	0	0	3
SST 110	Intro to Sustainability	3	0	0	0	3
SST 120	Energy Use Analysis	2	2	0	0	3
SST 140	Green Building Concepts	1	3	0	0	2

**Total Semester Credit Hours in Program .....74-76**

## 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 Credit  
Exp.

#### Fall Semester

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)

#### Spring Semester

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)

**Summer Term**

CIS 110	Introduction to Computers	2	2	0	0	3
	Major Course Electives***					6
	Subtotal					(9)

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

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

ALT 120	Renewable Energy Tech	2	2	0	0	3
ALT 220	Photovoltaic Sys Tech	2	3	0	0	3
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
GIS 111	Introduction to GIS	2	2	0	0	3
LID 111	LID Design Principles	2	3	0	0	3
SST 110	Intro to Sustainability	3	0	0	0	3
SST 120	Energy Use Analysis	2	2	0	0	3
SST 140	Green Building Concepts	1	3	0	0	2

**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 Credit  
Exp.

**Required Courses**

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**

**Sustainability Technology Certificate**

Developmental courses for this program may include ENG 080 RED 080, ENG 090, RED 090, CHM 092, MAT 060, MAT 070 and MAT 080.

Class Lab Clinic Work Credit  
Exp.

**Required Courses**

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
ENV 228	Environmental Issues	1	0	0	0	0
SST 110	Intro to Sustainability	3	0	0	0	3
	Major Course Electives***					5-6

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

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

ALT 120	Renewable Energy Tech	2	2	0	0	3
ALT 220	Photovoltaic Sys Tech	2	3	0	0	3
LID 111	LID Design Principles	2	3	0	0	3
SST 120	Energy Use Analysis	2	2	0	0	3
SST 140	Green Building Concepts	1	3	0	0	2

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

## 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.

### Fall Semester

COS 253	Esthetics Instructor Concepts I	6	15	0	0	11
	Subtotal					(11)

### Spring Semester

COS 254	Esthetics Instructor Concepts II	6	15	0	0	11
	Subtotal					(11)

**Total Semester Credit Hours in Program .....22**

## 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.

### Fall Semester

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)

### Spring Semester

COS 125	Esthetics Concepts II	2	0	0	0	2
COS 126	Esthetics Salon II	0	18	0	0	6
	Subtotal					(8)

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

## Film and Video Production Technology

### Associate in Applied Science Degree

The Film and Video Production Technology curriculum prepares students in entry-level employment in film, video, and associated media. Instruction provides training in all aspects of film and video production from pre- to post-production, preparing students for careers in the film industry or independent/artistic production.

The first year content includes extensive hands-on exposure to the entire production process. In the second year, students design and create independent short films and videos in a range of styles, genres, and formats.

Graduates may find employment as entry-level crew members in feature or 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. Graduates are also encouraged to explore careers as independent filmmakers and film/video artists.

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.

#### Fall Semester

FVP 130	Grip and 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 39-40.

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

Class Lab Clinic Work Credit  
Exp.

#### Fall Semester

ENG 111	Expository Writing	3	0	0	0	3
ACA 115	Success and Study Skills	2	0	0	0	1
FVP 111	Intro to Film and Video	2	3	0	0	3
FVP 112	Art Dept. Operations I	1	4	0	0	3
FVP 114	Camera and Lighting I	2	3	0	0	3
MAT 140	Survey of Mathematics	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)

#### Spring Semester

ENG 114	Profess Research and Report	3	0	0	0	3
FVP 115	Camera and 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 Term

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

## 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.

#### Fall Semester

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 and Public Edu	3	0	0	0	3
FIP 128	Detection and Investigation	3	0	0	0	3
	Subtotal					(16)

#### Spring Semester

ENG 114	Prof Research and 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)

#### Summer Term

FIP 228	Local Government Finance	3	0	0	0	3
FIP 248	Fire Service Personnel Admin	3	0	0	0	3
	Humanities/Fine Arts					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	Chem of Hazardous Mat. I	5	0	0	0	5
FIP 276	Managing Fire Services	3	0	0	0	3
	Subtotal					(14)

#### Spring Semester

FIP 224	Instructional Methodology	4	0	0	0	4
FIP 240	Fire Service Supervision	3	0	0	0	3
FIP 256	Municipal Public Relations	3	0	0	0	3
PSY 150	General Psychology	3	0	0	0	3
	Major Course Elective ***	3	0	0	0	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 39-40.

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

FIP 136	Inspections and Codes	3	0	0	0	3
FIP 144	Sprinklers and Auto Alarms	2	2	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/Report	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 0 1  
**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 and 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 Credit  
Exp.

#### Required General Education Courses

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 39-40.

**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	Credit	
				Exp.		
<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 Term</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)

<b>Spring Semester</b>						
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 39-40.

**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	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
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 Term</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 39-40.

\*\*\*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 Credit  
Exp.

### Required Courses

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 Credit  
Exp.

### Required Courses

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 and 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 Credit  
Exp.

### Required Courses

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 Credit  
Exp.

### Required Courses

HOR 162	Applied Plant Science	2	2	0	0	3
HOR 164	Horticulture Pest Mgt	2	2	0	0	3
HOR 166	Soils and 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	112	Elementary ASL II	3	0	0	0	3
ASL	181	ASL Lab 1*	0	2	0	0	1
ASL	182	ASL Lab 2*	0	2	0	0	1
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					(16)
<b>Spring Semester</b>							
ASL	211	Intermediate ASL I	3	0	0	0	3
ASL	212	Intermediate ASL II	3	0	0	0	3
ASL	250	Linguistics of ASL	3	0	0	0	3
ASL	281	ASL Lab 3*	0	2	0	0	1
ASL	282	ASL Lab 4*	0	2	0	0	1
CIS	110	Introduction to Computers	2	2	0	0	3
		Social/Behavioral Science Elective**					3
		Subtotal					(17)
<b>Summer Semester</b>							
ASL	221	Advanced ASL I	3	0	0	0	3
IPP	112	Comparative Cultures	3	0	0	0	3
IPP	152	ASL/English Translation	3	0	0	0	3
		Subtotal					(9)
<b>Fall Semester</b>							
ASL	222	Advanced ASL II	3	0	0	0	3
IPP	161	Consecutive Interpreting	2	6	0	0	5
MAT	140	Survey of Mathematics	3	0	0	0	3
MAT	140A	Survey of Mathematics Lab*	0	2	0	0	1
		Humanities Elective**					3
		Subtotal					(15)

### 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 and Practice I	3	0	0	0	3
ENG	114	Prof. Research and Reporting	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 39-40.

\*\*\*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
EDU	119	Intro to Early Childhood Edu	4	0	0	0	4
IPP	193	Selected Topics/Interpreter Edu	3	0	0	0	3
IPP	243	Religious Interpreting	2	2	0	0	3
IPP	245	Educational Interpreting Issues	3	0	0	0	3
MAT	161	College Algebra	3	0	0	0	3
MAT	161A	College Algebra Lab*	0	2	0	0	1
MED	121	Medical Terminology I	3	0	0	0	3
SOC	210	Introduction to Sociology	3	0	0	0	3

**Total Semester Credit Hours in Program .....74-75**

## 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	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	112	Elementary ASL II	3	0	0	0	3
ASL	181	ASL Lab 1*	0	2	0	0	1
ASL	182	ASL Lab 2*	0	2	0	0	1
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					(16)
<b>Spring Semester</b>							
ASL	211	Intermediate ASL I	3	0	0	0	3
ASL	212	Intermediate ASL II	3	0	0	0	3
ASL	250	Linguistics of ASL	3	0	0	0	3
ASL	281	ASL Lab 3*	0	2	0	0	1
ASL	282	ASL Lab 4*	0	2	0	0	1
CIS	110	Introduction to Computers	2	2	0	0	3
COE	111	Co-op Work Experience I	0	0	0	10	1
		Subtotal					(15)

**Summer Semester**

IPP	112	Comparative Cultures	3	0	0	0	3
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					(10)

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

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

## 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.

Class Lab Clinic Work Credit  
Exp.

**Fall Semester**

ASL	111	Elementary ASL I	3	0	0	0	3
ASL	112	Elementary ASL II	3	0	0	0	3
ASL	181	ASL Lab 1*	0	2	0	0	1
ASL	182	ASL Lab 2*	0	2	0	0	1
		Subtotal					(8)

**Spring Semester**

ASL	211	Intermediate ASL I	3	0	0	0	3
ASL	212	Intermediate ASL II	3	0	0	0	3
ASL	281	ASL Lab 3*	0	2	0	0	1
ASL	282	ASL Lab 4*	0	2	0	0	1
COE	111	Co-op Work Experience I	0	0	0	10	1
		Subtotal					(9)

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

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

## 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	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
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	Adv Machining Calculations	1	2	0	0	2
	Subtotal					(19)
<b>Summer Term</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	Profess 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 39-40.

**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	Adv Machining Calculations	1	2	0	0	2
	Subtotal					(19)
<b>Summer Term</b>						
MAC 113	Machining Technology III	2	12	0	0	6
	Subtotal					(6)
<b>Total Semester Credit Hours in Program .....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.

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.

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	251	Manicure Instructor Concepts	8	0	0	8
<b>Spring Semester</b>						
COS	252	Manicure Instructor Practicum	0	15	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	Credit
					Exp.	
<b>Fall Semester</b>						
<b>CIS</b>	<b>110</b>	<b>Introduction to Computers</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>3</b>
COS	121	Manicure/Nail Technology I	4	6	0	6
		Subtotal				(9)
<b>Spring Semester</b>						
BUS	270	Professional Development	3	0	0	3
COS	222	Manicure/Nail Technology II	4	6	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	Credit
						Exp.	
<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 Term

ELC	111	Introduction to Electricity	2	3	0	0	3
ENG	114	Professional Research/Reporting	0	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 and 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 39-40.

\*\*\*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	Credit
						Exp.	
<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 Term</b>							
ELC	111	Introduction to Electricity	2	3	0	0	3
ENG	114	Prof Research and 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
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	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>								
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 Term</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 39-40.

\*\*\*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

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	
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 Term</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 Credit  
Exp.

### Fall Semester

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 136	Word Processing	2	2	0	0	3
Subtotal						(14)

### Spring Semester

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 134	Text Entry and Formatting	2	2	0	0	3
OST 236	Advanced Word/Info. Process	2	2	0	0	3
Subtotal						(16)

### Summer Term

OST 223	Admin Office Transcript I	2	2	0	0	3
OST 284	Emerging Technologies	1	2	0	0	2
OST 289	Administrative Office Mgt	2	2	0	0	3
Humanities Elective**						3
Major Course Elective***						3
Subtotal						(14)

### Fall Semester

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
Social/Behavioral Science Elective**						3
Major Course 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
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 39-40.

\*\*\*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 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
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 and Insu	3	0	0	0	3
OST 149	Medical Legal Issues	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
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 Credit  
Exp.

### Fall Semester

ACA 115	Success and Study Skills	0	2	0	0	1
CIS 110	Introduction to Computers	2	2	0	0	3
OST 136	Word Processing	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)

### Spring Semester

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 130	Spreadsheet I	2	2	0	0	3
OST 134	Text Entry and Formatting	2	2	0	0	3
OST 236	Advanced Word/Info. Process	2	2	0	0	3
Subtotal						(16)

### Summer Term

CTS 125	Graphics Presentations	2	2	0	0	3
ENG 111	Expository Writing	3	0	0	0	3
OST 284	Emerging Technologies	1	2	0	0	2
OST 289	Administrative Office Mgt	2	2	0	0	3
Subtotal						(11)

**Total Semester Credit Hours in Program .....40**

## 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, and MAT 070,

			Class	Lab	Clinic	Work	Credit
						Exp.	
<b>Fall Semester</b>							
ACA 115	Success and Study Skills	0	2	0	0	0	1
OST 131	Keyboarding	1	2	0	0	0	2
OST 136	Word Processing	2	2	0	0	0	3
OST 141	Medical Term I –Med Office	3	0	0	0	0	3
OST 164	Text Editing Applications	3	0	0	0	0	3
OST 184	Records Management	2	2	0	0	0	3
	Subtotal						(15)
<b>Spring Semester</b>							
BUS 270	Professional Development	3	0	0	0	0	3
CIS 110	Introduction to Computers	2	2	0	0	0	3
COE 111	Co-op Work Experience I	0	0	0	10	1	
COM 231	Public Speaking	3	0	0	0	0	3
OST 148	Med Coding Bill and Insurance	3	0	0	0	0	3
OST 241	Med Office Transcription I	1	2	0	0	0	2
	Subtotal						(15)
<b>Summer Term</b>							
ENG 111	Expository Writing	3	0	0	0	0	3
OST 149	Medical Legal Issues	3	0	0	0	0	3
OST 243	Medical Office Simulation	2	2	0	0	0	3
OST 289	Administrative Office Mgt	2	2	0	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, and MAT 060.

		Class	Lab	Clinic	Work	Credit
					Exp.	
<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)
<b>Spring Semester</b>						
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	Credit
					Exp.	
<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)
<b>Spring Semester</b>						
COE 111	Co-op Work Experience I	0	0	0	10	1
OST 148	Med Coding Bill and 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 Assistant  
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	Credit	
					Exp.		
<b>Fall Semester</b>							
ACA 115	Success and Study Skills	0	2	0	0	1	
MAT 140	Survey of Mathematics	3	0	0	0	3	
MAT 140A	Survey of Mathematics Lab*	0	2	2	0	1	
OST 136	Word Processing	2	2	0	0	3	
OST 164	Text Editing and Applications	3	0	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	
ENG 111	Expository Writing	3	0	0	0	3	
OST 134	Text Entry and Formatting	2	2	0	0	3	
OST 236	Adv. Info/Word Processing	2	2	0	0	3	
	Social/Behavioral Science Elective**					3	
	Subtotal						(15)

<b>Summer Term</b>							
CTS 125	Presentation Graphics	2	2	0	0	3	
OST 162	Executive Terminology	3	0	0	0	3	
OST 223	Admin Office Transcript I	2	2	0	0	3	
OST 289	Administrative Office Mgt	2	2	0	0	3	
	Subtotal						(12)

<b>Fall Semester</b>							
ECM 210	Introduction to E-Commerce	2	2	0	0	3	
ENG 114	Prof Research and Reporting	3	0	0	0	3	
OST 184	Records Management	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)

<b>Spring Semester</b>							
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 39-40.

\*\*\*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 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	
OST 141	Med Terms I-Med Office	3	0	0	0	3	
OST 148	Med Coding Bill and 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	

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

**Virtual Office Assistant  
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	Credit	
					Exp.		
<b>Fall Semester</b>							
ACA 115	Success and Study Skills	0	2	0	0	1	
ECM 210	Introduction to E-Commerce	2	2	0	0	3	
OST 164	Text Editing and Applications	3	0	0	0	3	
OST 171	Intro to Virtual Office	2	2	0	0	3	
OST 184	Records Management	2	2	0	0	3	
	Subtotal						(13)

<b>Spring Semester</b>							
CIS 110	Introduction to Computers	2	2	0	0	3	
COE 111	Co-Op Education	1	0	0	0	1	
COM 231	Public Speaking	3	0	0	0	3	
OST 136	Word Processing	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	
	Subtotal						(15)

<b>Summer Term</b>							
CTS 130	Spreadsheet I	2	2	0	0	3	
ENG 111	Expository Writing	3	0	0	0	3	
OST 162	Executive Terminology	3	0	0	0	3	
OST 223	Admin. Office Transcript I	2	2	0	0	3	
OST 289	Administrative Office Mgt	2	2	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	Credit
							Exp.
<b>Fall Semester</b>							
BPR	130	Blueprint Reading for Const	1	2	0	0	2
PLU	150	Plumbing Diagrams	1	2	0	0	2
WLD	113	Soldering and Brazing	1	2	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>

## 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 Credit  
Exp.

### Fall Semester

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)

### Spring Semester

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
WEB 140	Web Development Tools	2	2	0	0	3
Subtotal						(15)

### Summer Term

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
Humanities Elective**						3
Subtotal						(10)

### Fall Semester

DFT 151	CAD I	2	3	0	0	3
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
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
Social/Behavioral Science 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 39-40.

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

BUS 110	Introduction to Business	3	0	0	0	3
BUS 280	REAL Small Business	4	0	0	0	4
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
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.

This curriculum complies with the standard approved by the State Board of Community Colleges. Special admission procedures apply to this program. See page 13 for details.

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	Prof Research and Reporting	3	0	0	0	3
		Social /Behavioral Science Elective**					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 39-40.

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

## Surgical Technology

### Diploma

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	Profess 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, and including no more than 14 semester credit hours that do not originate at a NC community college, a UNC institution, or an independent college or university that is part of the North Carolina Comprehensive Articulation Agreement, meets the general education core requirements.

Class Lab Clinic Work Credit  
Exp.

#### English Composition (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 (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)

#### 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	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

#### 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
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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
REL 212	Intro to New Testament	3	0	0	0	3

#### 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 1*	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. Only one 100-level statistical course may be selected.)

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 155	Statistical Analysis	3	0	0	0	3
MAT 155A	Statistical Analysis 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  
**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.)

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

HEA 112	First Aid and 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 and 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 Acc	3	2	0	0	4
ACC 121	Principles of Manager Acc	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 235	Survey of Film as Literature	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 must complete each course within the Transfer Core Diploma with a grade of "C" or better. Students with transfer credit can use up to 14 semester credit hours toward the Transfer Core Diploma that do not originate at a NC community college, a UNC institution, or an independent college or university that is part of the North Carolina 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, and including no more than 14 semester credit hours that do not originate at a NC community college, a UNC institution, or an independent college or university that is part of the North Carolina Comprehensive Articulation Agreement, meets the general education core requirements.

		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)

#### Humanities/Fine Arts

 (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)

##### 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	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

##### 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 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
REL 212	Intro to New Testament	3	0	0	0	3

##### 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. Only one 100-level statistical course may be selected.)

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 155	Statistical Analysis	3	0	0	0	3
MAT 155A	Statistical Analysis 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 Credit  
Exp.

### English Composition (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)

### Literature (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)

### Humanities/Fine Arts (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)

### Social/Behavioral Science (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.

#### English Composition (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)

#### History (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)

#### Literature (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)

#### Humanities/Fine Arts (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)

#### Social/Behavioral Science (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
<b>Note:</b> 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 and 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.

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

## 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	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)

**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

This 44 semester hour core of courses, with a grade of "C" or better, and including no more than 14 semester credit hours that do not originate at a NC community college, a UNC institution, or an independent college or university that is part of the North Carolina Comprehensive Articulation Agreement, meets the general education core requirements.

Class Lab Clinic Work Credit  
Exp.

#### English Composition (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
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PHI 240	Introduction to Ethics	3	0	0	0	3
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#### Religion

REL 110	World Religions	3	0	0	0	3
REL 212	Intro to New Testament	3	0	0	0	3

#### 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	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	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. Only one 100-level statistical course may be selected.)

**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	155	Statistical Analysis	3	0	0	0	3
MAT	155A	Statistical Analysis 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  
**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 and 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 235	Survey of Film as Literature	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. Students must complete each course within the Transfer Core Diploma with a grade of "C" or better. Students with transfer credit can use up to 14 semester credit hours toward the Transfer Core Diploma that do not originate at a NC community college, a UNC institution, or an independent college or university that is part of the North Carolina 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, and including no more than 14 semester credit hours that do not originate at a NC community college, a UNC institution, or an independent college or university that is part of the North Carolina Comprehensive Articulation Agreement, meets the general education core requirements.

Class Lab Clinic Work Credit  
Exp.

#### English Composition (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
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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
REL 212	Intro to New Testament	3	0	0	0	3

##### 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 1*	0	2	0	0	1
GER 112	Elementary German II	3	0	0	0	3
GER 182	German Lab 2*	0	2	0	0	1
SPA 111	Elementary Spanish I	3	0	0	0	3
SPA 181	Spanish Lab 1*	0	2	0	0	1
SPA 112	Elementary Spanish II	3	0	0	0	3
SPA 182	Spanish Lab 2*	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. Only one 100-level statistical course may be selected.)

**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 155	Statistical Analysis	3	0	0	0	3
MAT 155A	Statistical Analysis 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 Credit  
Exp.

#### Fall Semester

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)

#### Spring Semester

BIO 112	General Biology II	3	3	0	0	4
CHM 132	Organic and 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)

#### Summer Term

BIO 275	Microbiology	3	3	0	0	4
BTC 181	Basic Lab Techniques	3	3	0	0	4
	Social/Behavioral Sciences Elective**					3
	Subtotal					(11)

#### Fall Semester

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	Prof 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 Term

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 39-40.

#### Total Semester Credit Hours 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, biology, and chemistry.

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
BIO	175	General Microbiology	2	2	0	0	3
CHM	131	Introduction to Chemistry	3	3	0	0	4
CHM	131A	Introduction to Chemistry Lab	0	3	0	0	1
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, biology, and chemistry.

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.

### Required Courses

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
		Or					
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, biology, and chemistry.

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
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.

### Fall Semester

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)

### Spring Semester

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)

### Summer Term

ENG 114	Professional Research/Report	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)

### Fall Semester

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 Web sites	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 39-40.

\*\*\*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
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

**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 Credit  
Exp.

### Fall Semester

ACA 115	Success and Study Skills	0	2	0	0	1
ENG 111	Expository Writing	3	0	0	0	3
CIS 110	Introduction to Computers	2	2	0	0	3
CIS 115	Intro to Programming/Logic	2	2	0	0	3
WEB 110	Internet/Web Fundamentals	2	2	0	0	3
WEB 115	Web Markup and Scripting	2	3	0	0	3
	Subtotal					(16)

### Spring Semester

COE 111	Co-op Work Experience	0	0	0	10	1
DBA 110	Database Concepts	2	2	0	0	3
NOS 110	Operating Systems 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
WEB 120	Intro to Internet Multimedia	2	2	0	0	3
WEB 140	Web Development Tools	2	2	0	0	3
	Subtotal					(17)

**Summer Term**

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					(12)

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

**Total Semester Credit Hours in Program ..... 45**

## Web Technologies Certificate

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>						
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					(6)
<b>Summer Term</b>						
WEB 210	Web Design	2	2	0	0	3
	Or					
WEB 215	Adv. Markup and Scripting	2	2	0	0	3
	Subtotal					(3)
<b>Total Semester Credit Hours in Program ..... 15</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	Credit	
						Exp.		
<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 Term</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 and 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	Credit	
						Exp.		
<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	Credit	
						Exp.		
<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 and 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	Credit	
						Exp.		
<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	

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