Academic Programs Offered During the 2015–16 Academic Year

Transfer Programs

Web Technologies

Welding Technology

Developmental Courses

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

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

Developmental and prerequisite courses include:

BIO 090 Foundations of Biology
CHM 092 Fundamentals of Chemistry
CIS 070 Fundamentals of Computing
DRE 097 Integrated Reading and Writing II
DRE 098 Integrated Reading and Writing III
DRE 099 Integrated Reading and Writing III
DMA 010 Operations with Integers
DMA 020 Fractions and Decimals
DMA 030 Proportion/Ratios/Rates/Percents
DMA 040 Expressions, Linear Equations, Linear Inequalities
DMA 050 Graphs and Equations of Lines
DMA 060 Polynomials and Quadratic Applications
DMA 070 Rational Expressions and Equations
DMA 080 Radical Expressions and Equations
OST 131 Keyboarding

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

Language Prerequisite Courses

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

FRE 110 Introduction to French
SPA 110 Introduction to Spanish

Electives

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

Associate in Applied Science Humanities Electives

The following listings for Humanities Electives apply to Associate in Applied Science degree-seeking students. These electives should be carefully selected with the faculty advisor to ensure proper credit. Some programs of study have specific courses that meet the humanities elective requirement. ASL, foreign language, and public speaking courses cannot count as the sole humanities course in an associate in applied science program.

ART 111 Art Appreciation
ART 114 Art History Survey I
ART 115 Art History Survey II
DRA 111 Theatre Appreciation
DRA 112 Literature of the Theatre
ENG 231 American Literature I
ENG 232 American Literature II
ENG 233 Major American Writers
ENG 241 British Literature I
ENG 242 British Literature II
ENG 252 Western World Literature
ENG 262 World Literature II
HUM 123 Appalachian Culture
MUS 110 Music Appreciation
PHI 210 History of Philosophy
PHI 230 Introduction to Logic
PHI 240 Introduction to Ethics
REL 110 World Religions
REL 211 Intro to Old Testament
REL 212 Intro to New Testament
REL 221 Religion in America

Associate in Applied Science Social/Behavioral Science Electives

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

ANT 210 General Anthropology
ECO 151 Survey of Economics
ECO 251 Principles of Microeconomics
ECO 252 Principles of Macroeconomics
GEO 111 World Regional Geography
HIS 111 World Civilizations I
HIS 112 World Civilizations II
HIS 131 American History I
HIS 132 American History II
POL 120 American Government
POL 130 State and Local Government
PSY 150 General Psychology
PSY 237 Social Psychology
PSY 241 Developmental Psychology
PSY 281 Abnormal Psychology
SOC 210 Introduction to Sociology
SOC 213 Sociology of the Family
SOC 220 Social Problems

Accounting (A25100) - Online Option available

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
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
	Either						
MAT	143	Quantitative Literacy	2	2	0	0	3
	Or						
MAT	152	Statistical Methods I	3	2	0	0	4
		Subtotal					(14-15)
Spring Semester							
ACC	122	Prin of Financial Acct II	3	0	0	0	3
ACC	140	Payroll Accounting	1	2	0	0	2
	Either						
BUS	280	REAL Small Business	4	0	0	0	4
	Or						
		Major Course Elective***					3
	Either						
ECO	151	Survey of Economics	3	0	0	0	3
	Or						
ECO	251	Principles of Microeconomics	3	0	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
		Subtotal					(14 -15)
Summer Term							
CTS	130	Spreadsheet	2	2	0	0	3
ENG	114	Prof. Research and Reporting	3	0	0	0	3
		Humanities Elective**					3
		Subtotal					(9)
Fall Semester							
ACC	121	Prin of Managerial Accounting	3	2	0	0	4
ACC	129	Individual 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
		Major Course Elective***					3
		Subtotal					(17)
Spring Semester							
ACC	150	Accounting Software App	1	2	0	0	2
ACC	227	Practices in Accounting	3	0	0	0	3
BUS	225	Business Finance	2	2	0	0	3
WBL	111	Work-Based Learning I	0	0	0	10	1
		Social/Behavioral Science Elective**					3
		Subtotal					(12)

**Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on page 46.

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

BAF	110	Principles of Banking	3	0	0	0	3
BUS	116	Business Law II	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
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 66-68

Basic Accounting – Bookkeeping (C25100B) - Online Option Available

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACC	120	Prin of Financial Accounting	3	2	0	0	4
ACC	129	Individual Income Taxes	2	2	0	0	3
CIS	110	Introduction to Computers	2	2	0	0	3
		Subtotal					(10)
Spring Semester							
ACC	122	Prin of Financial Acct II	3	0	0	0	3
ACC	140	Payroll Accounting	1	2	0	0	2
ACC	150	Accounting Software App	1	2	0	0	2
		Subtotal					(7)

Total Semester Credit Hours in Program 17

Alternative Transportation Technology (D60420)

Diploma

Mobile Equipment Maintenance and Repair Pathway Description: Curriculums in the Mobile Equipment Maintenance and Repair pathway prepare individuals for employment as entry-level transportation service technicians. The program provides an introduction to transportation industry careers and increases student awareness of the diverse technologies associated with this dynamic and challenging field.

Course work may include transportation systems theory, braking systems, climate control, design parameters, drive trains, electrical/electronic systems, engine repair, engine performance, environmental regulations, materials, product finish, safety, steering/suspension, transmission/transaxles, and sustainable transportation, depending on the program major area chosen.

Graduates of this pathway should be prepared to take professional licensure exams, which correspond to certain programs of study, and to enter careers as entry-level technicians in the transportation industry.

Alternative Transportation Technology program description: The Alternative Transportation Technology program prepares individuals to apply technical knowledge and skills to the maintenance of alternative fuel vehicles (AFV), hybrid electric vehicles and the conversion of standard vehicles to AFV status. Topics includes instruction in electrical vehicles, hybrid electric vehicles, liquefied petroleum gas (LPG) vehicles, compressed natural gas (CNG) vehicles, hybrid fuel technology, electrical and electronic systems, engine performance, diagnosis and repair, and conversion/installation.

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
ATT	115	Green Trans Safety and Service	1	2	0	0	2
TRN	110	Intro to Transport Tech	1	2	0	0	2
TRN	120	Basic Transport Electricity	4	3	0	0	5
TRN	130	Intro to Sustainable Transport	2	2	0	0	3
TRN	170	PC Skills for Transport	1	2	0	0	2
TRN	180	Basic Welding for Transport	1	4	0	0	3
		Subtotal					(18)
Spring Semester							
ATT	130	Biofuels for Transportation	2	3	0	0	3
ATT	135	Gaseous Fuels for Transport	2	3	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
TRN	140	Transport Climate Control	1	2	0	0	2
TRN	140A	Transport Climate Control Lab*	1	2	0	0	2
		Subtotal					(13)
Summer Term							
ATT	125	Hybrid-Electric Transportation	2	4	0	0	4
ATT	140	Emerging Transport Tech	2	3	0	0	3
MAT	110	Math Measurement & Literacy	2	2	0	0	3
TRN	145	Adv Transportation Electronics	2	3	0	0	3
		Subtotal					(13)

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

Total Semester Credit Hours in Program 44

Alternative Transportation Technology – Advanced Electric Drive (C60420AE)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
TRN	110	Intro to Transport Tech	1	2	0	0	2
TRN	120	Basic Transport Electricity	4	3	0	0	5
TRN	170	PC Skills for Transport	1	2	0	0	2
		Subtotal					(9)
Spring Semester							
ATT	125	Hybrid-Electric Transportation	2	4	0	0	4
TRN	145	Adv Transportation Electronics	2	3	0	0	3
		Subtotal					(7)

Total Semester Credit Hours in Program 16

Alternative Transportation Technology – Alternative Fuels (C60420AF)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
TRN	110	Intro to Transport Tech	1	2	0	0	2
TRN	120	Basic Transport Electricity	4	3	0	0	5
TRN	130	Intro to Sustainable Trans	2	2	0	0	3
		Subtotal					(10)
Spring Semester							
ATT	115	Green Trans Safety and Service	1	1	0	0	2
ATT	135	Gaseous Fuels for Trans	2	3	0	0	3
ATT	140	Emerging Transport Tech	2	3	0	0	3
		Subtotal					(8)

Total Semester Credit Hours in Program 18

Students may earn additional certificates in the Mobile Equipment Maintenance and Repair Pathway programs. Speak to your faculty advisor for more information.

Associate Degree Nursing (A45110)

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 while 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 9.

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
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	Writing and Inquiry	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 page 46.

Total Semester Credit Hours in Program 70

Automotive Light-Duty Diesel Technology (D60430)

Diploma

Mobile Equipment Maintenance and Repair Pathway Description: Curriculums in the Mobile Equipment Maintenance and Repair pathway prepare individuals for employment as entry-level transportation service technicians. The program provides an introduction to transportation industry careers and increases student awareness of the diverse technologies associated with this dynamic and challenging field.

Course work may include transportation systems theory, braking systems, climate control, design parameters, drive trains, electrical/electronic systems, engine repair, engine performance, environmental regulations, materials, product finish, safety, steering/suspension, transmission/transaxles, and sustainable transportation, depending on the program major area chosen.

Graduates of this pathway should be prepared to take professional licensure exams, which correspond to certain programs of study, and to enter careers as entry-level technicians in the transportation industry.

Automotive Light-Duty Diesel program description: The Automotive Light-Duty Diesel program prepares individuals to apply technical knowledge and skills to diagnose, adjust, repair, or overhaul light duty diesel vehicles under one ton classification. Topics include instruction in electrical systems, diesel-electric drive, engine performance, engine repair, emission systems, and all types of diesel engines related to the light duty diesel vehicle. Program includes technicians working primarily with automobile diesel engines.

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
LDD	112	Intro to Light-Duty Diesel	2	2	0	0	3
TRN	110	Intro to Transport Tech	1	2	0	0	2
TRN	120	Basic Transport Electricity	4	3	0	0	5
TRN	170	PC Skills for Transport	1	2	0	0	2
TRN	180	Basic Welding for Transport	1	4	0	0	3
		Subtotal					(16)
Spring Semester							
ENG	111	Writing and Inquiry	3	0	0	0	3
HET	134	Diesel Fuel & Power Systems	2	3	0	0	3
LDD	181	LDD Fuel Systems	2	6	0	0	4
LDD	183	Air, Exhaust, Emissions	2	6	0	0	4
TRN	140	Transport Climate Control	1	2	0	0	2
TRN	140A	Transport Climate Control Lab*	1	2	0	0	2
		Subtotal					(18)
Summer Term							
LDD	116	Diesel Electric Drive	2	6	0	0	4
LDD	284	LDD Test and Diagnosis	2	3	0	0	3
MAT	110	Math Measurement & Literacy	2	2	0	0	3
		Subtotal					(10)

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

Total Semester Credit Hours in Program 44

Automotive Light-Duty Diesel Technology – Light-Duty Diesel Fuel Systems (C60430LF)

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 and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
LDD	112	Intro Light-Duty Diesel	2	2	0	0	3
TRN	110	Intro to Transport Tech	1	2	0	0	2
TRN	120	Basic Transport Electricity	4	3	0	0	5
		Subtotal					(10)
Spring Semester							
HET	134	Diesel Fuel & Power Systems	2	3	0	0	3
LDD	181	LDD Fuel Systems	2	6	0	0	4
		Subtotal					(7)

Total Semester Credit Hours in Program 17

Automotive Light-Duty Diesel Technology – Light-Duty Diesel Performance (C60430LD)

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 and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
TRN	110	Intro to Transport Tech	1	2	0	0	2
TRN	170	PC Skills for Transport	1	2	0	0	2
TRN	180	Basic Welding for Transport	1	4	0	0	3
		Subtotal					(7)
Spring Semester							
HET	134	Diesel Fuel & Power Systems	2	3	0	0	3
LDD	183	Air, Exhaust, Emissions	2	6	0	0	4
		Subtotal					(7)
Summer Term							
LDD	284	LDD Test and Diagnosis	2	3	0	0	3
		Subtotal					(3)

Total Semester Credit Hours in Program 17

Students may earn additional certificates in the Mobile Equipment Maintenance and Repair Pathway programs. Speak to your faculty advisor for more information.

Automotive Systems Technology (A60160)

Associate in Applied Science Degree

Mobile Equipment Maintenance and Repair Pathway Description: Curriculums in the Mobile Equipment Maintenance and Repair pathway prepare individuals for employment as entry-level transportation service technicians. The program provides an introduction to transportation industry careers and increases student awareness of the diverse technologies associated with this dynamic and challenging field.

Course work may include transportation systems theory, braking systems, climate control, design parameters, drive trains, electrical/electronic systems, engine repair, engine performance, environmental regulations, materials, product finish, safety, steering/suspension, transmission/transaxles, and sustainable transportation, depending on the program major area chosen.

Graduates of this pathway should be prepared to take professional licensure exams, which correspond to certain programs of study, and to enter careers as entry-level technicians in the transportation industry.

Automotive Systems Technology program description: The automotive systems program prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of automobiles. Topics include instruction in brake systems, electrical systems, engine performance, engine repair, suspension and steering, automatic and manual transmissions and drive trains, and heating and air condition systems.

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
AUT	151	Brake Systems	2	3	0	0	3
AUT	151A	Brake Systems Lab*	0	3	0	0	1
TRN	110	Intro to Transport Tech	1	2	0	0	2
TRN	120	Basic Transport Electricity	4	3	0	0	5
TRN	170	PC Skills for Transport	1	2	0	0	2
TRN	180	Basic Welding for Transport	1	4	0	0	3
		Subtotal					(17)
Spring Semester							
AUT	141	Suspension & Steering Sys	2	3	0	0	3
AUT	141A	Suspension & Steering Lab*	0	3	0	0	1
AUT	181	Engine Performance 1	2	3	0	0	3
AUT	181A	Engine Performance 1 Lab*	0	3	0	0	1
ENG	111	Writing and Inquiry	3	0	0	0	3
		Humanities Elective**					3
		Subtotal					(14)
Summer Term							
AUT	183	Engine Performance 2	2	6	0	0	4
MAT	110	Math Measurement & Literacy	2	2	0	0	3
TRN	140	Transport Climate Control	1	2	0	0	2
TRN	140A	Transport Climate Control Lab*	1	2	0	0	2
		Subtotal					(11)
Fall Semester							
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
		Major Course Elective***					3
		Subtotal					(13)
Spring Semester							
AUT	221	Auto Transm/Transaxles	2	3	0	0	3
AUT	231	Manual Trans/Axles/Drtrains	2	3	0	0	3
AUT	231A	Manual Trans/Axles/Drtrains Lab*0	3	0	0		1
		Social/Behavioral Science 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 page 46.

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

ATT	125	Hybrid-Electric Transportation	2	4	0	0	4
AUT	113	Automotive Servicing I	0	6	0	0	2
AUT	163A	Adv Auto Electricity Lab*	0	3	0	0	1
AUT	213	Automotive Servicing 2	1	3	0	0	2
AUT	221A	Auto Transm/Transaxles Lab*	0	3	0	0	1
HET	134	Diesel Fuel & Power Systems	2	3	0	0	3
LDD	112	Intro to Light Duty Diesel	2	2	0	0	3
TRN	120A	Basic Transport Electricity Lab*	0	3	0	0	1
TRN	130	Intro to Sustain Transportation	2	2	0	0	3
TRN	145	Adv Transp Electronics	2	3	0	0	3
TRN	180A	Basic Weld for Transport Lab*	0	3	0	0	1
WBL	111	Work-Based Learning I	0	0	0	10	1
WBL	121	Work-Based Learning II	0	0	0	10	1
WBL	131	Work-Based Learning III	0	0	0	10	1

Total Semester Credit Hours in Program 68

Automotive Systems Technology (D60160)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
AUT	151	Brake Systems	2	3	0	0	3
AUT	151A	Brake Systems Lab*	0	3	0	0	1
TRN	110	Intro to Transport Tech	1	2	0	0	2
TRN	120	Basic Transport Electricity	4	3	0	0	5
TRN	170	PC Skills for Transport	1	2	0	0	2
TRN	180	Basic Welding for Transport	1	4	0	0	3
		Subtotal					(17)
Spring Semester							
AUT	141	Suspension & Steering Sys	2	3	0	0	3
AUT	141A	Suspension & Steering Lab*	0	3	0	0	1
AUT	181	Engine Performance 1	2	3	0	0	3
AUT	181A	Engine Performance 1 Lab*	0	3	0	0	1
ENG	111	Writing and Inquiry	3	0	0	0	3
		Major Course Elective***					2
		Subtotal					(13)

Summer Term

AUT	183	Engine Performance 2	2	6	0	0	4
MAT	110	Math Measurement & Literacy	2	2	0	0	3
TRN	140	Transport Climate Control	1	2	0	0	2
TRN	140A	Transport Climate Control Lab*	1	2	0	0	2
		Subtotal					(11)

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

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

ATT	125	Hybrid-Electric Transportation	2	4	0	0	4
AUT	113	Automotive Servicing I	0	6	0	0	2
AUT	163	Adv Auto Electricity	2	3	0	0	3
AUT	163A	Adv Auto Electricity Lab*	0	3	0	0	1
AUT	213	Automotive Servicing 2	1	3	0	0	2
HET	134	Diesel Fuel & Power Systems	2	3	0	0	3
LDD	112	Intro to Light Duty Diesel	2	2	0	0	3
TRN	120A	Basic Transport Electricity Lab*	0	3	0	0	1
TRN	130	Intro to Sustain Transportation	2	2	0	0	3
TRN	145	Adv Transp Electronics	2	3	0	0	3
TRN	180A	Basic Weld for Transport Lab*	0	3	0	0	1
WBL	111	Work-Based Learning I	0	0	0	10	1
WBL	121	Work-Based Learning II	0	0	0	10	1
WBL	131	Work-Based Learning III	0	0	0	10	1

Total Semester Credit Hours in Program 41

Automotive Systems Technology – Mobile Equipment Technician (C60160MT)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Required Courses							
TRN	110	Intro to Transport Tech	1	2	0	0	2
TRN	120	Basic Transport Electricity	4	3	0	0	5
TRN	140	Transport Climate Control	1	2	0	0	2
TRN	140A	Transport Climate Control Lab*	1	2	0	0	2
TRN	170	PC Skills for Transport	1	2	0	0	2
TRN	180	Basic Welding for Transport	1	4	0	0	3

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

Total Semester Credit Hours in Program 16

Automotive Systems Technology – Chassis Technician (C60160CT)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Required Courses							
AUT	141	Suspension & Steering Sys	2	3	0	0	3
AUT	141A	Suspension & Steering Lab*	0	3	0	0	1
AUT	151	Brake Systems	2	3	0	0	3
AUT	151A	Brake Systems Lab*	0	3	0	0	1
TRN	110	Intro to Transport Tech	1	2	0	0	2
TRN	120	Basic Transport Electricity	4	3	0	0	5
TRN	170	PC Skills for Transport	1	2	0	0	2

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

Total Semester Credit Hours in Program 17

Automotive Systems Technology – Electrical/Electronic Technician (C60160ET)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Required Courses							
ATT	125	Hybrid-Electric Transportation	2	4	0	0	4
AUT	163	Advanced Auto Electricity	2	3	0	0	3
AUT	163A	Advanced Auto Electricity Lab*	0	3	0	0	1
TRN	110	Intro to Transport Tech	1	2	0	0	2
TRN	120	Basic Transport Electricity	4	3	0	0	5
TRN	170	PC Skills for Transport	1	2	0	0	2

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

Total Semester Credit Hours in Program 17

Automotive Systems Technology – Engine Performance (C60160EN)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Required Courses							
AUT	181	Engine Performance 1	2	3	0	0	3
AUT	181A	Engine Performance 1 Lab*	0	3	0	0	1
AUT	183	Engine Performance 2	2	6	0	0	4
TRN	110	Intro to Transport Tech	1	2	0	0	2
TRN	120	Basic Transport Electricity	4	3	0	0	5
TRN	170	PC Skills for Transport	1	2	0	0	2

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

Total Semester Credit Hours in Program 17

Automotive Systems Technology – Driveline Performance Certification (C60160DR)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Required Courses							
AUT	113	Automotive Servicing I	0	6	0	0	2
AUT	116	Engine Repair	2	3	0	0	3
AUT	116A	Engine Repair Lab*	0	3	0	0	1
AUT	221	Auto Transm/Transaxles	2	3	0	0	3
AUT	221A	Auto Transm/Transaxles Lab*	0	3	0	0	1
AUT	231	Man Trans/Axles/Drtrains	2	3	0	0	3
AUT	231A	Man Trans/Axles/Drtrains Lab*	0	3	0	0	1
TRN	110	Intro to Transport Tech	1	2	0	0	2
TRN	170	PC Skills for Transport	1	2	0	0	2

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

Total Semester Credit Hours in Program 18

Students may earn additional certificates in the Mobile Equipment Maintenance and Repair Pathway programs. Speak to your faculty advisor for more information.

Brewing, Distillation and Fermentation – Brewing Equipment, Packaging & Maintenance (A15250)

Associate in Applied Science Degree

Food Products and Processing Systems Pathway Description: This curriculum is designed to prepare individuals for various careers in the brewing, distillation and fermentation industry. Classroom instruction, practical laboratory applications of brewing, distillation and fermentation principles and practices are included in the program of study.

Course work in brewing, distillation and fermentation includes production, operations, safety and sanitation, and associated process technologies. Related course work is offered in fermentation production, safety and sanitation, applied craft beverage microbiology, agriculture, marketing, management, equipment, packaging, and maintenance.

Graduates should qualify for employment opportunities in the brewing, distillation and fermentation industry. Students may be eligible to sit for the professional Institute of Brewing & Distilling (IBD) certification exams which correspond to the program of study.

Brewing, Distillation and Fermentation Pathway Description: A program that prepares individuals to apply technical knowledge and skills to brew, distill and ferment various products, including beverages. Includes instruction in production of fermented products, cultivating, marketing, management, legal issues, inspection, maintenance, service and repair of equipment, facility operations, packaging, sanitation, and welding.

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
BDF	112	Survey of Fermented Products	3	3	0	0	4
BDF	125	Bev Tech & Calculations	1	3	0	0	2
ELC	131	Circuit Analysis I	3	3	0	0	4
HYD	110	Hydraulics/Pneumatics I	2	3	0	0	3
MNT	110	Intro to Maint Procedures	1	3	0	0	2
		Subtotal					(16)
Spring Semester							
BDF	110	Fermentation Production	2	4	0	0	4
BDF	111	BDF Safety & Sanitation	1	2	0	0	2
BDF	115	Applied Craft Bev Microbiology	3	2	0	0	4
ENG	111	Writing and Inquiry	3	0	0	0	3
MAT	110	Math Measurement & Literacy	2	2	0	0	3
		Subtotal					(16)
Summer Term							
BDF	180	Sensory Evaluation	2	2	0	0	3
		Humanities Elective**					3
		Subtotal					(6)
Fall Semester							
ATR	112	Introduction to Automation	2	3	0	0	3
BDF	114	Craft Beer Brewing	1	3	0	0	2
ELC	128	Introduction to PLC	2	3	0	0	3
ENG	114	Prof Research and Reporting	3	0	0	0	3
HOR	245	Hort Specialty Crops	2	2	0	0	3
		Major Course Elective***					3
		Subtotal					(17)
Spring Semester							
BDF	225	Filtration & Finishing	2	2	0	0	3
BDF	236	Brewing/Packaging Maint	2	4	0	0	4
BUS	110	Introduction to Business	3	0	0	0	3
		Social/Behavioral Science Elective**					3
		Major Course Elective***					3
		Subtotal					(16)

**Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on page 46.

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

ATR	219	Automation Troubleshooting	1	3	0	0	2
BDF	175	Distillation Operations	2	4	0	0	4
BDF	230	Advanced Brewing	2	2	0	0	3
CHM	131	Introduction to Chemistry	3	0	0	0	3
CHM	131A	Intro to Chemistry Lab*	0	3	0	0	1
EGR	125	Appl Software for Tech	1	2	0	0	2
ELC	117	Motors and Controls	2	6	0	0	4
ELC	228	PLC Applications	2	6	0	0	4
REF	211	Glycol Chiller Systems	2	4	0	0	4
VEN	133	Intro to Winemaking	3	0	0	0	3
VEN	283	Wine Production and Analysis	2	6	0	0	5
WBL	111	Work-Based Learning I	0	0	0	10	1
WBL	121	Work-Based Learning II	0	0	0	10	1
WBL	131	Work-Based Learning III	0	0	0	10	1
WLD	214	Sanitary Welding	2	6	0	0	4

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

Total Semester Credit Hours in Program 71

Brewing, Distillation and Fermentation – Brewing Equipment, Packaging & Maintenance (D15250)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
BDF	112	Survey of Fermented Products	3	3	0	0	4
ELC	128	Introduction to PLC	2	3	0	0	3
ELC	131	Circuit Analysis I	3	3	0	0	4
HOR	245	Hort Specialty Crops	2	2	0	0	3
MNT	110	Intro to Maint Procedures	1	3	0	0	2
		Subtotal					(17)

Spring Semester

BDF	110	Fermentation Production	2	4	0	0	4
BDF	111	BDF Safety & Sanitation	1	2	0	0	2
BDF	115	Applied Craft Bev Microbiology	3	2	0	0	4
BUS	110	Introduction to Business	3	0	0	0	3
MAT	110	Math Measurement & Literacy	2	2	0	0	3
		Subtotal					(16)

Summer Term

ENG	111	Writing and Inquiry	3	0	0	0	3
		Subtotal					(7)

Total Semester Credit Hours in Program 36

Brewing, Distillation and Fermentation – Equipment, Packaging & Maintenance (C15250EQ)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Required Courses							
ATR	112	Introduction to Automation	2	3	0	0	3
BDF	111	BDF Safety & Sanitation	1	2	0	0	2
BDF	236	Brewing/Packaging Maint	2	4	0	0	4
HYD	110	Hydraulics/Pneumatics I	2	3	0	0	3
MNT	110	Intro to Maint Procedures	1	3	0	0	2

Total Semester Credit Hours in Program 14

Brewing, Distillation and Fermentation – Brewing Basics (C15250BR)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Required Courses							
BDF	111	BDF Safety & Sanitation	1	2	0	0	2
BDF	114	Craft Beer Brewing	1	3	0	0	2
BDF	115	Applied Craft Bev Microbiology	3	2	0	0	4
BDF	125	Bev Tech & Calculations	1	3	0	0	2
BDF	180	Sensory Evaluation	2	2	0	0	3
BDF	225	Filtration & Finishing	2	2	0	0	3

Total Semester Credit Hours in Program 16

Brewing, Distillation and Fermentation – Winemaking Basics (C15250WN)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Required Courses							
BDF	111	BDF Safety & Sanitation	1	2	0	0	2
BDF	115	Applied Craft Bev Microbiology	3	2	0	0	4
VEN	133	Intro to Winemaking	3	0	0	0	3
VEN	283	Wine Production and Analysis	2	6	0	0	5

Total Semester Credit Hours in Program 14

Brewing, Distillation and Fermentation – Distillation (C15250DI)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Required Courses							
BDF	110	Fermentation Production	2	4	0	0	4
BDF	115	Applied Craft Bev Microbiology	3	2	0	0	4
BDF	125	Bev Tech & Calculations	1	3	0	0	2
BDF	175	Distillation Operations	2	4	0	0	4
BDF	225	Filtration & Finishing	2	2	0	0	3

Total Semester Credit Hours in Program 17

Business Administration (A25120)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
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	143	Quantitative Literacy	2	2	0	0	3
	Or						
MAT	152	Statistical Methods I	3	2	0	0	4
		Subtotal					(14-15)
Spring Semester							
ACC	122	Prin of Financial Accounting II	3	0	0	0	3
BUS	137	Principles of Management	3	0	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
		Major Course Elective***					4
		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
ECO	251	Principles of Microeconomics	3	0	0	0	3
MKT	120	Principles of Marketing	3	0	0	0	3
WBL	111	Work-Based Learning I	0	0	0	10	1
		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)

**Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on page 46.

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

ACC	121	Principles of Managerial Acct II	3	2	0	0	4
ACC	129	Individual Income Taxes	2	2	0	0	3
ACC	150	Acct Software Appl	1	2	0	0	2
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
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
WBL	121	Work-Based Learning II	0	0	0	10	1
WBL	122	Work-Based Learning II	0	0	0	20	2
WBL	123	Work-Based Learning II	0	0	0	30	3
WBL	124	Work-Based Learning II	0	0	0	40	4
WBL	131	Work-Based Learning III	0	0	0	10	1
WBL	132	Work-Based Learning III	0	0	0	20	2
WBL	212	Work-Based Learning IV	0	0	0	20	2
WEB	110	Internet/Web Fundamentals	2	2	0	0	3

Total Semester Credit Hours in Program 65-66

Business Administration – Basic (C25120BA)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
BUS	110	Introduction to Business	3	0	0	0	3
MKT	120	Principles of Marketing	3	0	0	0	3
		Subtotal					(6)
Spring Semester							
BUS	137	Principles of Management	3	0	0	0	3
CIS	110	Introduction to Computers	2	2	0	0	3
BUS	115	Business Law I	3	0	0	0	3
		Subtotal					(9)

Total Semester Credit Hours in Program 15

Business Administration/ Banking and Finance (A2512A)

Associate in Applied Science Degree

Banking and Finance is a concentration under the curriculum title of Business Administration. This curriculum is designed to prepare individuals for a career with various financial institutions and other businesses. Course work includes principles of banking, money and banking, lending fundamentals, banking and business law, and practices in the areas of marketing, management, accounting, and economics. Graduates should qualify for a variety of entry-level jobs in banking and finance. Also available are employment opportunities with insurance, brokerage and mortgage companies, and governmental lending 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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
ACC	120	Prin of Financial Accounting	3	2	0	0	4
BAF	110	Principles of Banking	3	0	0	0	3
BUS	110	Introduction to Business	3	0	0	0	3
CIS	110	Introduction to Computers	2	2	0	0	3
		Subtotal					(14)
Spring Semester							
BAF	131	Fund of Bank Lending	3	0	0	0	3
BUS	137	Principles of Management	3	0	0	0	3
COM	231	Public Speaking	3	0	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
		Humanities Elective**					3
		Subtotal					(15)
Summer Term							
BUS	240	Business Ethics	3	0	0	0	3
ENG	114	Prof. Research and Reporting	3	0	0	0	3
MAT	143	Quantitative Literacy	2	2	0	0	3
		Social/Behavioral Science Elective**					3
		Subtotal					(12)
Fall Semester							
BUS	115	Business Law I	3	0	0	0	3
ECO	251	Principles of Microeconomics	3	0	0	0	3
MKT	120	Principles of Marketing	3	0	0	0	3
WBL	111	Work-Based Learning I	0	0	0	10	1
		Major Course Elective***					3
		Subtotal					(13)
Spring Semester							
BAF	141	Law & Banking Principles	3	0	0	0	3
BAF	222	Money and Banking	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					(14)

**Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on page 46.

***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	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
CTS	130	Spreadsheet	2	2	0	0	3
MKT	123	Fundamentals of Selling	3	0	0	0	3
WBL	121	Work-Based Learning II	0	0	0	10	1
WBL	122	Work-Based Learning II	0	0	0	20	2
WBL	123	Work-Based Learning II	0	0	0	30	3
WBL	124	Work-Based Learning II	0	0	0	40	4

Total Semester Credit Hours in Program 68

Business Administration/ Marketing and Retailing (A2512F)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
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
ENG	111	Writing and Inquiry	3	0	0	0	3
MKT	120	Principles of Marketing	3	0	0	0	3
		Subtotal					(13)
Spring Semester							
ACC	120	Princip of Financial Accounting	3	2	0	0	4
ENG	114	Prof. Research and Reporting	3	0	0	0	3
MAT	143	Quantitative Literacy	2	2	0	0	3
MKT	123	Fundamentals of Selling	3	0	0	0	3
		Subtotal					(13)
Summer Term							
MKT	122	Visual Merchandising	3	0	0	0	3
		Humanities Elective**					3
		Social/Behavioral Science Elective**					3
		Major Course Elective***					3
		Subtotal					(12)
Fall Semester							
BUS	115	Business Law I	3	0	0	0	3
ECO	251	Principles of Microeconomics	3	0	0	0	3
MKT	220	Advertising and Sales Promotion	3	0	0	0	3
MKT	222	Credit Procedures	3	0	0	0	3
WEB	115	Web Markup and Scripting	2	2	0	0	3
		Subtotal					(15)
Spring Semester							
ACC	150	Acct Software Application	1	2	0	0	2
BUS	137	Principles of Management	3	0	0	0	3
MKT	223	Customer Service	3	0	0	0	3
MKT	225	Marketing Research	3	0	0	0	3
MKT	226	Retail Applications	3	0	0	0	3
WBL	111	Work-Based Learning I	0	0	0	10	1
		Subtotal					(15)

**Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on page 46.

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

BUS	153	Human Resource Management	3	0	0	0	3
BUS	228	Business Statistics	2	2	0	0	3
BUS	270	Professional Development	3	0	0	0	3
DBA	110	Database Concepts	2	3	0	0	3
ECM	210	Introduction to E-Commerce	2	2	0	0	3
WBL	112	Work-Based Learning I	0	0	0	20	2
WBL	113	Work-Based Learning I	0	0	0	30	3
WBL	114	Work-Based Learning I	0	0	0	40	4
WBL	121	Work-Based Learning II	0	0	0	10	1
WBL	122	Work-Based Learning II	0	0	0	20	2
WBL	123	Work-Based Learning II	0	0	0	30	3
WBL	124	Work-Based Learning II	0	0	0	40	4
WBL	131	Work-Based Learning III	0	0	0	10	1
WBL	132	Work-Based Learning III	0	0	0	20	2

Total Semester Credit Hours in Program 68

Business Administration/ Marketing and Retailing (D2512F)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
BUS	115	Business Law I	3	0	0	0	3
BUS	137	Principles of Management	3	0	0	0	3
CIS	110	Introduction to Computers	2	2	0	0	3
MKT	120	Principles of Marketing	3	0	0	0	3
MKT	220	Advertising and Sales Promotion	3	0	0	0	3
		Subtotal					(16)
Spring Semester							
ACC	120	Prin of Financial Accounting	3	2	0	0	4
ECO	251	Principles of Microeconomics	3	0	0	0	3
MKT	225	Marketing Research	3	0	0	0	3
MKT	226	Retail Applications	3	0	0	0	3
		Subtotal					(13)
Summer Term							
MKT	122	Visual Merchandising	3	0	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
MAT	143	Quantitative Literacy	2	2	0	0	3
		Subtotal					(9)

Total Semester Credit Hours in Program 38

Collision Repair and Refinishing Technology (A60130)

Associate in Applied Science Degree

Mobile Equipment Maintenance and Repair Pathway Description: Curriculums in the Mobile Equipment Maintenance and Repair pathway prepare individuals for employment as entry-level transportation service technicians. The program provides an introduction to transportation industry careers and increases student awareness of the diverse technologies associated with this dynamic and challenging field.

Course work may include transportation systems theory, braking systems, climate control, design parameters, drive trains, electrical/electronic systems, engine repair, engine performance, environmental regulations, materials, product finish, safety, steering/suspension, transmission/transaxles, and sustainable transportation, depending on the program major area chosen.

Graduates of this pathway should be prepared to take professional licensure exams, which correspond to certain programs of study, and to enter careers as entry-level technicians in the transportation industry.

Collision Repair and Refinishing program description: The collision repair and refinishing program prepares individuals to apply technical knowledge and skills to repair, reconstruct and finish automobile bodies, fenders, and external features. Topics include instruction in structure analysis, damage repair, non-structural analysis, mechanical and electrical components, plastics and adhesives, painting and refinishing techniques, and damage analysis and estimating.

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
AUB	160	Body Shop Operations	1	0	0	0	1
TRN	110	Intro to Transport Tech	1	2	0	0	2
TRN	120	Basic Transport Electricity	4	3	0	0	5
TRN	170	PC Skills for Transport	1	2	0	0	2
TRN	180	Basic Welding for Transport	1	4	0	0	3
TRN	180A	Basic Welding for Trans Lab*	0	3	0	0	1
		Subtotal					(15)
Spring Semester							
AUB	111	Painting and Refinishing I	2	6	0	0	4
AUB	121	Non-Structural Damage I	1	4	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
TRN	140	Transport Climate Control	1	2	0	0	2
TRN	140A	Transport Climate Control Lab*	1	2	0	0	2
		Humanities Elective**	3	0	0	0	3
		Subtotal					(17)
Summer Term							
AUB	131	Structural Damage I	2	4	0	0	4
AUB	136	Plastics and Adhesives	1	4	0	0	3
MAT	110	Math Measurement & Literacy	2	2	0	0	3
		Subtotal					(10)
Fall Semester							
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
		Social/Behavioral Science Elective**					3
		Subtotal					(13)
Spring Semester							
AUB	112	Painting and Refinishing II	2	6	0	0	4
AUB	162	Autobody Estimating	1	2	0	0	2
AUT	141	Suspension & Steering Sys	2	3	0	0	3
AUT	141A	Suspension & Steering Sys Lab*	0	3	0	0	1
	Or						
WBL	111	Work-Based Learning I	0	0	0	10	1
ENG	114	Prof Research and Reporting	3	0	0	0	3
		Subtotal					(13)

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

**Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on page 46.

Total Semester Credit Hours in Program 68

Collision Repair and Refinishing Technology (D60130)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
AUB	160	Body Shop Operations	1	0	0	0	1
TRN	110	Intro to Transport Tech	1	2	0	0	2
TRN	120	Basic Transport Electricity	4	3	0	0	5
TRN	170	PC Skills for Transport	1	2	0	0	2
TRN	180	Basic Welding for Transport	1	4	0	0	3
TRN	180A	Basic Welding for Trans Lab*	0	3	0	0	1
		Subtotal					(15)
Spring Semester							
AUB	111	Painting and Refinishing I	2	6	0	0	4
AUB	121	Non-Structural Damage I	1	4	0	0	3
AUB	162	Autobody Estimating	1	2	0	0	2
ENG	111	Writing and Inquiry	3	0	0	0	3
TRN	140	Transport Climate Control	1	2	0	0	2
TRN	140A	Transport Climate Control Lab*	1	2	0	0	2
		Subtotal					(16)
Summer Term							
AUB	131	Structural Damage I	2	4	0	0	4
AUB	136	Plastics and Adhesives	1	4	0	0	3
MAT	110	Math Measurement & Literacy	2	2	0	0	3
		Subtotal					(10)

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

Total Semester Credit Hours in Program 41

Collision Repair and Refinishing – Insurance Estimating (C60130IE)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Required Courses							
AUB	111	Painting and Refinishing I	2	6	0	0	4
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
TRN	110	Intro to Transport Tech	1	2	0	0	2
TRN	170	PC Skills for Transport	1	2	0	0	2

Total Semester Credit Hours in Program 18

Collision Repair and Refinishing – Non-Structural (C60130NS)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Required Courses							
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
AUB	136	Plastics and Adhesives	1	4	0	0	3
TRN	110	Intro to Transport Tech	1	2	0	0	2
TRN	170	PC Skills for Transport	1	2	0	0	2

Total Semester Credit Hours in Program 18

Collision Repair and Refinishing – Structural (C60130S)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Required Courses							
AUB	111	Painting & Refinishing I	2	6	0	0	4
AUB	131	Structural Damage I	2	4	0	0	4
AUB	132	Structural Damage II	2	6	0	0	4
TRN	110	Intro to Transport Tech	1	2	0	0	2
TRN	180	Basic Welding for Transport	1	4	0	0	3
TRN	180A	Basic Welding for Trans Lab*	0	3	0	0	1

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

Total Semester Credit Hours in Program 18

Students may earn additional certificates in the Mobile Equipment Maintenance and Repair Pathway programs. Speak to your faculty advisor for more information.

Community Spanish Interpreter (A55370)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
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	Writing and Inquiry	3	0	0	0	3
SPA	111	Elementary Spanish I	3	0	0	0	3
SPA	181	Spanish Lab 1*	0	2	0	0	1
SPI	113	Introduction to Spanish Interp.	3	0	0	0	3
		Major Course Elective***					3
		Subtotal					(17)
Spring Semester							
ENG	114	Prof Research and Reporting	3	0	0	0	3
MAT	143	Quantitative Literacy	2	2	0	0	3
SPA	112	Elementary Spanish II	3	0	0	0	3
SPA	141	Culture and Civilization	3	0	0	0	3
SPA	182	Spanish Lab 2*	0	2	0	0	1
		Subtotal					(13)
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
		Humanities 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							
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
SPI	214	Introduction to Translation	3	0	0	0	3
WBL	111	Work-Based Learning I	0	0	0	10	1
WBL	115	Work-Based Learning Seminar I	1	0	0	0	1
		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 page 46.

***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
EDU	131	Children, Family, and Comm.	3	0	0	0	3
EDU	144	Child Development I	3	0	0	0	3
EDU	145	Child Development II	3	0	0	0	3
WBL	112	Work-Based Learning I	0	0	0	20	2
WBL	121	Work-Based Learning II	0	0	0	10	1
WBL	132	Work-Based Learning III	0	0	0	20	2

Total Semester Credit Hours in Program 73

Computer Information Technology (A25260)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
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
CIS	115	Intro to Programming and Logic	2	3	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
SEC	110	Security Concepts	2	2	0	0	3
		Subtotal					(16)
Spring Semester							
CTS	155	Tech Support Functions	2	2	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)
Summer Term							
MAT	143	Quantitative Literacy	2	2	0	0	3
		Social/Behavioral Sciences Elective**					3
		Subtotal					(6)
Fall Semester							
CTS	120	Hardware/Software Support	2	3	0	0	3
CTS	285	Systems Analysis and Design	3	0	0	0	3
NET	125	Networking Basics	1	4	0	0	3
NOS	130	Windows Single User	2	2	0	0	3
WBL	111	Work-Based Learning I	0	0	0	10	1
		Subtotal					(13)
Spring Semester							
CTS	217	Computer Training Support	2	2	0	0	3
CTS	289	System Support Project	1	4	0	0	3
NOS	230	Windows Administration I	2	2	0	0	3
		Humanities Elective**					3
		Major Course Elective***					3
		Subtotal					(15)

**Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on page 46.

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

ACC	120	Prin of Financial Accounting	3	2	0	0	4
ACC	121	Prin of Managerial Accounting	3	2	0	0	4
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
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
CTS	130	Spreadsheet	2	2	0	0	3
NOS	120	Linux/UNIX Single User	2	2	0	0	3
WBL	122	Work-Based Learning II	0	0	0	20	2
WEB	115	Web Markup and Scripting	2	2	0	0	3
WEB	250	Database Driven websites	2	2	0	0	3

Total Semester Credit Hours in Program 65

Computer Information Technology (D25260)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
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	3	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
MAT	143	Quantitative Literacy	2	2	0	0	3
NET	125	Networking Basics	1	4	0	0	3
		Subtotal					(16)
Spring Semester							
CTS	155	Tech Support Functions	2	2	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					(12)
Fall Semester							
CTS	120	Hardware/Software Support	2	3	0	0	3
NOS	130	Windows Single User	2	2	0	0	3
SEC	110	Security Concepts	2	2	0	0	3
WBL	111	Work-Based Learning I	0	0	0	10	1
		Major Course Elective***					3
		Subtotal					(13)

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

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
CTS	130	Spreadsheet	2	2	0	0	3
NOS	120	Linux/UNIX Single User	2	2	0	0	3
WBL	122	Work-Based Learning II	0	0	0	20	2
WEB	115	Web Markup and Scripting	2	2	0	0	3
WEB	250	Database Driven websites	2	2	0	0	3

Total Semester Credit Hours in Program 41

Computer Programming (A25130)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
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
CIS	115	Intro to Programming and Logic	2	3	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
SEC	110	Security Concepts	2	2	0	0	3
		Subtotal					(16)
Spring Semester							
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
		Major Course Elective***					3
		Subtotal					(15)
Summer Term							
ENG	114	Prof. Research and Reporting	3	0	0	0	3
MAT	143	Quantitative Literacy	2	2	0	0	3
		Subtotal					(6)
Fall Semester							
CSC	151	JAVA Programming	2	3	0	0	3
CSC	234	Advanced C++ Programming	2	3	0	0	3
CTS	285	Systems Analysis and Design	3	0	0	0	3
NET	125	Networking Basics	1	4	0	0	3
NOS	130	Windows Single User	2	2	0	0	3
		Subtotal					(15)
Spring Semester							
CSC	251	Adv JAVA Programming	2	3	0	0	3
CSC	289	Programming Capstone Project	1	4	0	0	3
WBL	111	Work-Based Learning I	0	0	0	10	1
		Humanities/Fine Arts Elective**					3
		Major Course Elective***					3
		Subtotal					(13)

**Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on page 46.

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

ACC	120	Prin of Financial Accounting	3	2	0	0	4
ACC	121	Prin of Managerial Accounting	3	2	0	0	4
BUS	228	Business Statistics	2	2	0	0	3
BUS	240	Business Ethics	3	0	0	0	3
CSC	153	C# Programming	2	3	0	0	3
CTS	130	Spreadsheet	2	2	0	0	3
MAT	171	Pre-calculus Algebra	3	2	0	0	4
NOS	120	Linux/UNIX Single User	2	2	0	0	3
SGD	113	SGD Programming	2	3	0	0	3
WBL	112	Work-Based Learning I	0	0	0	20	2
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	182	PHP Programming	2	2	0	0	3
WEB	250	Database Driven websites	2	2	0	0	3

Total Semester Credit Hours in Program 65

Computer Programming (D25130)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
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	3	0	0	3
CSC	151	Java Programming	2	3	0	0	3
NET	125	Networking Basics	1	4	0	0	3
SEC	110	Security Concepts	2	2	0	0	3
		Subtotal					(16)
Spring Semester							
CSC	134	C++ Programming	2	3	0	0	3
CSC	251	Advanced JAVA Programming	2	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	0	3
NOS	110	Operating System Concepts	2	3	0	0	3
WEB	115	Web Markup and Scripting	2	2	0	0	3
		Subtotal					(15)
Fall Semester							
CSC	234	Advance C++	2	3	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
		Subtotal					(6)

Total Semester Credit Hours in Program 37

Computer Programming (C25130)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
CIS	110	Introduction to Computers	2	2	0	0	3
CIS	115	Intro to Programming and Logic	2	3	0	0	3
CSC	151	JAVA Programming	2	3	0	0	3
		Subtotal					(9)
Spring Semester							
CSC	134	C++ Programming	2	3	0	0	3
CSC	251	Advanced Java Programming	2	3	0	0	3
		Subtotal					(6)

Total Semester Credit Hours in Program 15

Computer–Integrated Machining (A50210)

Associate in Applied Science Degree

The Computer-Integrated Machining curriculum prepares students with the analytical, creative and innovative skills necessary to take a production idea from an initial concept through design, development and production, resulting in a finished product.

Coursework may include manual machining, computer applications, engineering design, computer-aided drafting (CAD), computer-aided machining (CAM), blueprint interpretation, advanced computerized numeric control (CNC) equipment, basic and advanced machining operations, precision measurement and high-speed multi-axis machining.

Graduates should qualify for employment as machining technicians in high-tech manufacturing, rapid-prototyping and rapid-manufacturing industries, specialty machine shops, fabrication industries, and high-tech or emerging industries such as aerospace, aviation, medical, and renewable energy, and to sit for machining certification 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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
ISC	112	Industrial Safety	2	0	0	0	2
MAC	111	Machining Technology I	2	12	0	0	6
MAC	121	Intro to CNC	2	0	0	0	2
MAC	151	Machining Calculations	1	2	0	0	2
		Subtotal					(13)
Spring Semester							
BPR	111	Print Reading	1	2	0	0	2
ENG	111	Writing and Inquiry	3	0	0	0	3
MAC	112	Machining Technology II	2	12	0	0	6
MAC	122	CNC Turning	1	3	0	0	2
MAC	124	CNC Milling	1	3	0	0	2
		Subtotal					(15)
Summer Term							
CIS	110	Introduction to Computers	2	2	0	0	3
DFT	151	CAD I	2	3	0	0	3
		Major Course Elective***					6
		Subtotal					(12)
Fall Semester							
MAC	222	Advanced CNC Turning	1	3	0	0	2
MAT	143	Quantitative Literacy	2	2	0	0	3
MEC	110	Intro to CAD/CAM	1	2	0	0	2
		Social/Behavioral Science Elective**					3
		Major Course Elective***					6
		Subtotal					(16)
Spring Semester							
ENG	114	Profess Research/Reporting	3	0	0	0	3
ISC	132	Mfg Quality Control	2	3	0	0	3
MAC	224	Advanced CNC Milling	1	3	0	0	2
MAC	248	Production Procedures	1	2	0	0	2
		Humanities Elective**					3
		Subtotal					(13)

**Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on page 46.

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

ATR	112	Intro to Automation	2	3	0	0	3
ATR	211	Robot Programming	2	3	0	0	3
ATR	219	Automation Troubleshooting	1	3	0	0	2
AUT	116	Engine Repair	2	3	0	0	3
AUT	116A	Engine Repair Lab*	0	3	0	0	1
BUS	110	Introduction to Business	3	0	0	0	3
DFT	154	Intro Solid Modeling	2	3	0	0	3
EGR	125	Appl Software for Tech	1	2	0	0	2
EGR	150	Intro to Engineering	1	2	0	0	2
MEC	145	Mfg Materials I	2	3	0	0	3
MEC	180	Engineering Materials	2	3	0	0	3
PLA	162	Plastics Manufact Processes	2	3	0	0	3
TDP	110	Intro to 3D Printing	2	3	0	0	3
TDP	140	Precision 3D Printing	2	3	0	0	3
WBL	111	Work-Based Learning I	0	0	0	10	1
WBL	112	Work-Based Learning I	0	0	0	20	2
WBL	121	Work-Based Learning II	0	0	0	10	1
WBL	122	Work-Based Learning III	0	0	0	20	2
WLD	112	Basic Welding Processes	1	3	0	0	2

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

Total Semester Credit Hours in Program 69

Computer-Integrated Machining (D50210)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
MAC	111	Machining Technology I	2	12	0	0	6
MAC	121	Intro to CNC	2	0	0	0	2
MAC	151	Machining Calculations	1	2	0	0	2
MAT	143	Quantitative Literacy	2	2	0	0	3
		Subtotal					(14)
Spring Semester							
BPR	111	Print Reading	1	2	0	0	2
ENG	111	Writing and Inquiry	3	0	0	0	3
MAC	112	Machining Technology II	2	12	0	0	6
MAC	122	CNC Turning	1	3	0	0	2
MAC	124	CNC Milling	1	3	0	0	2
		Subtotal					(15)

Summer Term

CIS	110	Introduction to Computers	2	2	0	0	3
DFT	151	CAD I	2	3	0	0	3
		Major Course Elective***					6
		Subtotal					(12)

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

ATR	112	Intro to Automation	2	3	0	0	3
ATR	211	Robot Programming	2	3	0	0	3
ATR	219	Automation Troubleshooting	1	3	0	0	2
AUT	116	Engine Repair	2	3	0	0	3
AUT	116A	Engine Repair Lab*	0	3	0	0	1
BUS	110	Introduction to Business	3	0	0	0	3
DFT	154	Intro Solid Modeling	2	3	0	0	3
EGR	125	Appl Software for Tech	1	2	0	0	2
EGR	150	Intro to Engineering	1	2	0	0	2
MEC	145	Mfg Materials I	2	3	0	0	3
MEC	180	Engineering Materials	2	3	0	0	3
PLA	162	Plastics Manufact Processes	2	3	0	0	3
TDP	110	Intro to 3D Printing	2	3	0	0	3
TDP	140	Precision 3D Printing	2	3	0	0	3
WBL	111	Work-Based Learning I	0	0	0	10	1
WBL	112	Work-Based Learning I	0	0	0	20	2
WBL	121	Work-Based Learning II	0	0	0	10	1
WBL	122	Work-Based Learning III	0	0	0	20	2
WLD	112	Basic Welding Processes	1	3	0	0	2

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

Total Semester Credit Hours in Program 41

Computer-Integrated Machining – CNC Turning Operator (C50210CN)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Required Courses							
BPR	111	Print Reading	1	2	0	0	2
MAC	111	Machining Technology I	2	12	0	0	6
MAC	112	Machining Technology II	2	12	0	0	6
MAC	121	Intro to CNC	2	0	0	0	2
MAC	122	CNC Turning	1	3	0	0	2

Total Semester Credit Hours in Program 18

Computer-Integrated Machining – CNC Milling Operator (C50210CM)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Required Courses							
BPR	111	Print Reading	1	2	0	0	2
MAC	111	Machining Technology I	2	12	0	0	6
MAC	112	Machining Technology II	2	12	0	0	6
MAC	121	Intro to CNC	2	0	0	0	2
MAC	124	CNC Milling	1	3	0	0	2

Total Semester Credit Hours in Program 18

Computer-Integrated Machining – Machinist – Entry (C50210ME)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Required Courses							
BPR	111	Print Reading	1	2	0	0	2
ISC	112	Industrial Safety	2	0	0	0	2
MAC	111	Machining Technology I	2	12	0	0	6
MAC	112	Machining Technology II	2	12	0	0	6
MAC	151	Machining Calculations	1	2	0	0	2

Total Semester Credit Hours in Program 18

Computer-Integrated Machining – Engine Machine Shop (C50210MS)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Required Courses							
AUT	116	Engine Repair	2	3	0	0	3
AUT	116A	Engine Repair Lab*	0	3	0	0	1
MAC	111	Machining Technology I	2	12	0	0	6
MAC	112	Machining Technology II	2	12	0	0	6
MAC	151	Machining Calculations	1	2	0	0	2

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

Total Semester Credit Hours in Program 18

Computer-Integrated Machining – Manufacturing Technician (C50210MT)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Required Courses							
ATR	112	Intro to Automation	2	3	0	0	3
ATR	211	Robot Programming	2	3	0	0	3
BPR	111	Print Reading	1	2	0	0	2
EGR	125	Appl Software for Tech	1	2	0	0	2
ISC	112	Industrial Safety	2	0	0	0	2
MAC	124	CNC Milling	1	3	0	0	2

Total Semester Credit Hours in Program 14

Cosmetology (A55140)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor. The following course sequences are for day students. Night students should work closely with their advisor for adjusted sequence.

Day students that begin in Fall will follow this course sequence:

			Class	Lab	Clinic	Work Exp.	Credit
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
COM	113	Cosmetology Concepts II	4	0	0	0	4
COS	114	Salon II	0	24	0	0	8
ENG	111	Writing and Inquiry	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
ENG	114	Prof Research and Reporting	3	0	0	0	3
		Subtotal					(11)
Fall Semester							
COS	117	Cosmetology Concepts IV	2	0	0	0	2
COS	118	Salon IV	0	21	0	0	7
COS	240	Contemporary Design	1	3	0	0	2
COS	250	Computerized Salon Operations	1	0	0	0	1
MAT	143	Quantitative Literacy	2	2	0	0	3
		Subtotal					(15)
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)

Day students that begin in Spring will follow this course sequence:

			Class	Lab	Clinic	Work Exp.	Credit
Spring Semester							
COS	111	Cosmetology Concepts I	4	0	0	0	4
COS	112	Salon I	0	24	0	0	8
ACA	115	Success and Study Skills	0	2	0	0	1
		Subtotal					(13)
Summer Term							
COS	113	Cosmetology Concepts II	4	0	0	0	4
COS	114A	Salon IIA	0	12	0	0	4
ENG	111	Writing and Inquiry	3	0	0	0	3
		Subtotal					(11)
Fall Semester							
COS	114B	Salon IIA	0	12	0	0	4
COS	115	Cosmetology Concepts II	4	0	0	0	4
ENG	114	Prof Research and Reporting	3	0	0	0	3
COS	250	Computerized Salon Operations	1	0	0	0	1
		Subtotal					(12)
Spring Semester							
COS	116	Salon III	0	12	0	0	4
COS	117	Cosmetology Concepts IV	2	0	0	0	2
COS	240	Contemporary Design	1	3	0	0	2
BUS	280	REAL Small Business	4	0	0	0	4
		Major Course Elective***					3
		Subtotal					(15)
Summer Term							
COS	118A	Salon IVA	0	12	0	0	4
MAT	143	Quantitative Literacy	2	2	0	0	3
		Subtotal					(7)
Fall Semester							
COS	118B	Salon IVB	0	9	0	0	3
CIS	110	Introduction to Computers	2	2	0	0	3
		Social/Behavioral Science Elective**					3
		Humanities Elective**					3
		Subtotal					(12)

**Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on page 46.

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

BUS	137	Principles of Management	3	0	0	0	3
BUS	270	Professional Development	3	0	0	0	3

Total Semester Credit Hours in Program 70

Cosmetology (D55140)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor. The following course sequences are for day students. Night students should work closely with their advisor for adjusted sequence.

Day students that begin in Fall will follow this course sequence:

			Class	Lab	Clinic	Work Exp.	Credit
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
COM	113	Cosmetology Concepts II	4	0	0	0	4
COS	114	Salon II	0	24	0	0	8
ENG	111	Writing and Inquiry	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
ENG	114	Prof Research and Reporting	3	0	0	0	3
		Subtotal					(11)
Fall Semester							
COS	118	Salon IV	0	21	0	0	7
COS	240	Contemporary Design	1	3	0	0	2
ENG	114	Prof Research and Reporting	3	0	0	0	3
		Subtotal					(12)

Day students that begin in Spring will follow this course sequence:

			Class	Lab	Clinic	Work Exp.	Credit
Spring Semester							
COS	111	Cosmetology Concepts I	4	0	0	0	4
COS	112	Salon I	0	24	0	0	8
ACA	115	Success and Study Skills	0	2	0	0	1
		Subtotal					(13)
Summer Term							
COS	113	Cosmetology Concepts II	4	0	0	0	4
COS	114A	Salon IIA	0	12	0	0	4
ENG	111	Writing and Inquiry	3	0	0	0	3
		Subtotal					(11)
Fall Semester							
COS	114B	Salon IIA	0	12	0	0	4
COS	115	Cosmetology Concepts II	4	0	0	0	4
		Subtotal					(11)
Spring Semester							
COS	240	Contemporary Design	1	3	0	0	2
		Subtotal					(6)
Summer Term							
COS	118A	Salon IVA	0	12	0	0	4
		Subtotal					(4)
Fall Semester							
COS	118B	Salon IVB	0	9	0	0	3
		Subtotal					(3)

Total Semester Credit Hours in Program 48

Cosmetology (C55140)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor. The following course sequences are for day students. Night students should work closely with their advisor for adjusted sequence.

Day students that begin in Fall will follow this course sequence:

			Class	Lab	Clinic	Work Exp.	Credit
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							
COM	113	Cosmetology Concepts II	4	0	0	0	4
COS	114	Salon II	0	24	0	0	8
COS	240	Contemporary Design	1	3	0	0	2
		Subtotal					(16)
Summer Term							
COS	115	Cosmetology Concepts III	4	0	0	0	4
COS	116	Salon III	0	12	0	0	4
		Subtotal					(8)

Day students that begin in Spring will follow this course sequence:

			Class	Lab	Clinic	Work Exp.	Credit
Spring Semester							
COS	111	Cosmetology Concepts I	4	0	0	0	4
COS	112	Salon I	0	24	0	0	8
		Subtotal					(12)
Summer Term							
COM	113	Cosmetology Concepts II	4	0	0	0	4
COS	114	Salon IIA	0	12	0	0	4
		Subtotal					(8)
Fall Semester							
COS	114B	Salon IIB	0	12	0	0	4
COS	115	Cosmetology Concepts III	4	0	0	0	4
		Subtotal					(8)
Spring Semester							
COS	116	Salon III	0	12	0	0	4
COS	240	Contemporary Design	1	3	0	0	2
		Subtotal					(6)

Total Semester Credit Hours in Program 34

Cosmetology Instructor (C55160)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
COS	271	Instructor Concepts I	5	0	0	0	5
COS	272	Instructor Practicum I	0	21	0	0	7
		Subtotal					(12)
Spring Semester							
COS	273	Instructor Concepts II	5	0	0	0	5
COS	274	Instructor Practicum II	0	21	0	0	7
		Subtotal					(12)

Total Semester Credit Hours in Program 24

Criminal Justice Technology (A55180)

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.

The Criminal Justice program articulates with the following four year universities:
Norwich University (follow standard program of study below)
Mars Hill University (see page 132)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	122	College Transfer Success	0	2	0	0	1
	Or						
ACA	115	Success and Study Skills	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	Writing and Inquiry	3	0	0	0	3
		Subtotal					(13)
Spring Semester							
CJC	112	Criminology	3	0	0	0	3
CJC	131	Criminal Law	3	0	0	0	3
	Either						
MAT	110	Math Measurement & Literacy	2	2	0	0	3
	Or						
MAT	143	Quantitative Literacy	2	2	0	0	3
	Or						
MAT	152	Statistical Methods I	3	2	0	0	4
POL	130	State and Local Government	3	0	0	0	3
		Communications/Foreign Lang Elective**					3
		Subtotal					(15-16)
Summer Term							
	Either						
ENG	112	Writing/Research in the Disc	3	0	0	0	3
	Or						
ENG	114	Prof. Research and Reporting	3	0	0	0	3
		Humanities Elective**					3
		Social/Behavioral Science Elective**					3
		Subtotal					(9)
Fall Semester							
CJC	113	Juvenile Justice	3	0	0	0	3
CJC	121	Law Enforcement Operations	3	0	0	0	3
CJC	132	Court Procedure & Evidence	3	0	0	0	3
CJC	221	Investigative Principles	3	2	0	0	4
		Major Course Elective***					3
		Subtotal					(16)
Spring Semester							
CJC	141	Corrections	3	0	0	0	3
CJC	170	Critical Incident Mgmt Pub Saf	3	0	0	0	3
CJC	212	Ethics & Community Relations	3	0	0	0	3
CJC	255	Issues in Crim Justice App	3	0	0	0	3
		Subtotal					(12)

Students planning to transfer to a 4 year institution should take ACA 122 and either MAT 143 or MAT 152

**Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on page 46.

**Communications/Foreign Language Elective is to be selected from the following courses: ASL 111, COM 120, COM 140, COM 160, COM 231, SPA 120.

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

CJC	120	Interviews/Interrogations	1	2	0	0	2
CJC	122	Community Policing	3	0	0	0	3
CJC	151	Intro to Loss Prevention	3	0	0	0	3
CJC	213	Substance Abuse	3	0	0	0	3
CJC	215	Organization & Administration	3	0	0	0	3
CJC	222	Criminalistics	3	0	0	0	3
CJC	223	Organized Crime	3	0	0	0	3
CJC	241	Community-Based Corrections	3	0	0	0	3
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
PSY	150	General Psychology	3	0	0	0	3
PSY	231	Forensic Psychology	3	0	0	0	3
PSY	237	Social Psychology	3	0	0	0	3
SOC	220	Social Problems	3	0	0	0	3
WBL	111	Work-Based Learning I	0	0	0	10	1
WBL	112	Work-Based Learning I	0	0	0	20	2
WBL	113	Work-Based Learning I	0	0	0	30	3
WBL	114	Work-Based Learning I	0	0	0	40	4
WBL	121	Work-Based Learning II	0	0	0	10	1
WBL	122	Work-Based Learning II	0	0	0	20	2
WBL	123	Work-Based Learning II	0	0	0	30	3
WBL	124	Work-Based Learning II	0	0	0	40	4

Total Semester Credit Hours in Program 65-66

Criminal Justice Technology (D55180)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
CJC	111	Intro to Criminal Justice	3	0	0	0	3
CJC	113	Juvenile Justice	3	0	0	0	3
CJC	121	Law Enforcement Operations	3	0	0	0	3
CJC	221	Investigative Principles	3	2	0	0	4
CJC	231	Constitutional Law	3	0	0	0	3
		Subtotal					(17)
Spring Semester							
CJC	112	Criminology	3	0	0	0	3
CJC	131	Criminal Law	3	0	0	0	3
CJC	141	Corrections	3	0	0	0	3
CJC	212	Ethics & Community Relations	3	0	0	0	3
CJC	222	Criminalistics	3	0	0	0	3
		Subtotal					(15)
Summer Term							
ENG	111	Writing and Inquiry	3	0	0	0	3
	Either						
MAT	110	Math Measurement & Literacy	2	2	0	0	3
	Or						
MAT	143	Quantitative Literacy	2	2	0	0	3
	Or						
MAT	152	Statistical Methods I	3	2	0	0	4
		Subtotal					(6-7)

Total Semester Credit Hours in Program 38-39

Criminal Justice Technology (C55180)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
CJC	111	Intro to Criminal Justice	3	0	0	0	3
CJC	221	Investigative Principles	3	2	0	0	4
		Subtotal					(7)
Spring Semester							
CJC	131	Criminal Law	3	0	0	0	3
CJC	212	Ethics & Community Relations	3	0	0	0	3
		Subtotal					(6)

Total Semester Credit Hours in Program 13

Criminal Justice Technology/Latent Evidence (A5518A) – Online Program

Associate in Applied Science Degree

Latent Evidence is a concentration under the curriculum of Criminal Justice Technology. This curriculum is designed to provide knowledge of latent evidence systems and operations. Study will focus on local, state, and federal law enforcement, evidence processing and procedures.

Students will learn both theory and hands-on analysis of latent evidence. They will learn fingerprint classification, identification, and chemical development. Students will record, cast, and recognize footwear and tire-tracks; and process crime scenes. Issues and concepts of communications and the use of computers and computer assisted design programs in crime scene technology will be discussed.

Graduates should qualify for employment in a variety of criminal justice organizations especially in local, state, and federal law enforcement, and correctional agencies.

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.

The Criminal Justice-Latent Evidence program articulates with the following four year universities:
Norwich University (follow standard program of study below)
Mars Hill University (see page 132)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	122	College Transfer Success	0	2	0	0	1
	Or						
ACA	115	Success and Study Skills	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	121	Law Enforcement Operations	3	0	0	0	3
CJC	231	Constitutional Law	3	0	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
		Subtotal					(16)
Spring Semester							
CJC	112	Criminology	3	0	0	0	3
CJC	131	Criminal Law	3	0	0	0	3
	Either						
POL	120	American Government	3	0	0	0	3
	Or						
POL	130	State and Local Government	3	0	0	0	3
		Communications/ Foreign Lang Elective*					3
		Subtotal					(12)
Summer Term							
ENG	112	Writing/Research in the Disc	3	0	0	0	3
	Or						
ENG	114	Prof. Research and Reporting	3	0	0	0	3
	Either						
MAT	110	Math Measurement & Literacy	2	2	0	0	3
	Or						
MAT	143	Quantitative Literacy	2	2	0	0	3
	Or						
MAT	152	Statistical Methods I	3	2	0	0	4
		Humanities Elective**					3
		Subtotal					(9-10)
Fall Semester							
CJC	113	Juvenile Justice	3	0	0	0	3
CJC	132	Court Procedure & Evidence	3	0	0	0	3
CJC	144	Crime Scene Processing	2	3	0	0	3
CJC	146	Trace Evidence	2	3	0	0	3
CJC	221	Investigative Principles	3	2	0	0	4
		Subtotal					(16)
Spring Semester							
CJC	170	Critical Incident Mgmt Pub Saf	3	0	0	0	3
CJC	212	Ethics and Community Relations	3	0	0	0	3
CJC	245	Friction Ridge Analysis	2	3	0	0	3
CJC	246	Adv Friction Ridge Analysis	2	3	0	0	3
CJC	255	Issues in Crim Justice App	3	0	0	0	3
		Subtotal					(15)

Students planning to transfer to a 4 year institution should take ACA-122 and either MAT-143 or MAT-152

*Communications/Foreign Language Elective is to be selected from the following courses: ASL 111, COM 120, COM 140, COM 160, COM 231, and SPA 120.

**Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on page 46.

Total Semester Credit Hours in Program 67-68

Early Childhood Education (A55220)

Associate in Applied Science Degree

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

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

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

Task Stream: Students who graduate from the program must complete an electronic portfolio in Task Stream www.taskstream.com to show competence in the National Association for the Education of Young Children (NAEYC) 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 page 11.

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.

If a student plans to transfer to a four-year institution, students must earn acceptable scores on PRAXIS I before enrolling in a bachelor's degree program. Students should work closely with their advisor to make appropriate course choices.

			Class	Lab	Clinic	Work Exp.	Credit
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 a Prof'l in ECE	3	0	0	0	3
ENG	111	Writing and Inquiry	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
	Either						
ENG	112	Writing/Research in the Discipl	3	0	0	0	3
	Or						
ENG	114	Prof. Research and Reporting	3	0	0	0	3
		Major Course Elective***					3
		Major Course Elective***					3
		Subtotal					(15)

Summer Term

Either			
	Math Requirement**		3-4
Or			
	Natural Science Requirement**		4
	Social/Behavioral Science Elective**		3
	Humanities Elective**		3
	Subtotal		(9-10)

Fall Semester							
EDU	131	Child, Family, & 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
EDU	221	Children with Exceptionalities	3	0	0	0	3
EDU	251	Exploration Activities	3	0	0	0	3
		Subtotal					(15)
Spring Semester							
EDU	234	Infants, Toddlers & Twos	3	0	0	0	3
EDU	271	Educational Technology	2	2	0	0	3
EDU	280	Language & Literacy Exp	3	0	0	0	3
EDU	284	Early Child Capstone Practicum	1	9	0	0	4
		Subtotal					(13)

**Natural Science or Math requirement is to be selected from the courses listed below (3-4 credit hours required):

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
CHM	151	General Chemistry I	3	3	0	0	4
MAT	143	Quantitative Literacy	2	2	0	0	3
MAT	152	Statistical Methods I	3	2	0	0	4
MAT	171	Pre-Calculus Algebra	3	2	0	0	4
PHY	151	College Physics I	3	2	0	0	4

**Humanities Electives to be selected from the courses listed below (3 credit hours required):

ART	111	Art Appreciation	3	0	0	0	3
ART	114	Art History Survey I	3	0	0	0	3
ART	115	Art History Survey II	3	0	0	0	3
ENG	231	America Literature I	3	0	0	0	3
ENG	232	American Literature II	3	0	0	0	3
MUS	110	Music Appreciation	3	0	0	0	3
PHI	240	Introduction to Ethics	3	0	0	0	3

Social/Behavioral Science Electives to be selected from the courses listed below (3 credit hours required):

ECO	251	Principles of Microeconomics	3	0	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	0	3
HIS	111	World Civilization I	3	0	0	0	3
HIS	112	World Civilization 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
PSY	150	General Psychology	3	0	0	0	3
SOC	210	Introduction to Sociology	3	0	0	0	3

Several articulation agreements are in place with four-year universities. Students who wish to transfer should work closely with their advisor to choose the appropriate major course, humanities, social/behavior science and math/natural science electives.

***Major Course Electives are to be selected from the courses listed below (6 credit hours required):

ASL	111	Elementary ASL I	3	0	0	0	3
CIS	110	Introduction to Computers	2	2	0	0	3
COM	231	Public Speaking	3	0	0	0	3
EDU	157	Active Play	2	2	0	0	3
EDU	163	Classroom Mgt and Instruct	3	0	0	0	3
EDU	184	Early Child Intro Practicum	1	3	0	0	2
EDU	216	Foundations of Education	4	0	0	0	4
EDU	235	School-Age Dev & Program	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 Issues/ School Age	2	0	0	0	2
PED	110	Fit and Well for Life	1	2	0	0	2
SPA	111	Elementary Spanish I	3	0	0	0	3
SPA	181	Spanish Lab 1*	0	2	0	0	1

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

Total Semester Credit Hours in Program 66-68

Early Childhood Education – Preschool (C55220P) Certificate

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

Certificate graduates are prepared to plan and implement developmentally appropriate programs for infants and children through age eight. Employment opportunities include childcare programs, preschools, public and private schools, Head Start programs, developmental day programs, and school-age programs. Students who complete this certificate may apply for the National Preschool Child Development Associate (CDA Credential: NC Community College Track).

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 and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
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 Intro Practicum	1	3	0	0	2
		Subtotal					(8)

Total Semester Credit Hours in Program 18

Early Childhood Education – Infant and Toddler (C55290) Certificate

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

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

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

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include Learning Center Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

Students who complete this certificate may apply for the National Infant-Toddler Child Development Associate (CDA Credential: NC Community College Track).

			Class	Lab	Clinic	Work Exp.	Credit
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 & 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, & Twos	3	0	0	0	3
		Subtotal					(6)

Total Semester Credit Hours in Program 16

Early Childhood Education – School-Age (C55220S)

Certificate

This curriculum prepares individuals to work with school-age children in diverse learning environments. The curriculum is specifically designed for students planning to work in public or private school-age care environments.

Course work includes child growth/development; physical/nutritional needs of school-age children; care and guidance of school-age children; and communication skills with parents 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 activities in school-age environments. Employment opportunities include school-age teaching or school-age administration positions in child care/development programs, group leaders, before and after school programs, recreational centers and other programs that work with school-age populations.

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 and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
EDU	157	Active Play	2	2	0	0	3
EDU	163	Classroom Mgt. and Instruction	3	0	0	0	3
EDU	275	Effective Teacher Training	2	0	0	0	2
		Subtotal					(8)
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 .....(17)

Early Childhood Education – Administration (C55220A)

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 Learning Center Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Summer Term							
EDU	119	Intro Early Childhood Education	4	0	0	0	4
		Subtotal					(4)
Fall Semester							
EDU	153	Health, Safety & Nutrition	3	0	0	0	3
EDU	261	Early Childhood Admin I	3	0	0	0	3
		Subtotal					(6)
Spring Semester							
EDU	131	Child, Family & Community	3	0	0	0	3
EDU	262	Early Childhood Admin II	3	0	0	0	3
		Subtotal					(6)

Total Semester Credit Hours in Program 16

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 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 page 11.

Task Stream: Students who graduate from the program must complete an electronic portfolio in Task Stream 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 Learning Center Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

To transfer to a four-year institution, students must earn acceptable scores on PRAXIS I before enrolling in a bachelor's degree in Education. Students should work closely with their advisor to make appropriate course choices.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
	Or						
ACA	122	College Transfer Success	0	2	0	0	1
EDU	144	Child Development I	3	0	0	0	3
EDU	163	Classroom Mgt and Instruct	3	0	0	0	3
EDU	173	Becoming a Prof'l in ECE	3	0	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
		Humanities Elective**					3
		Subtotal					(16)
Spring Semester							
ENG	112	Writing/Research in the Discipl	3	0	0	0	3
	Or						
ENG	114	Prof. Research and Reporting	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
		Humanities Elective**					3
		Social/Behavioral Science Elective**					3
		Subtotal					(15)
Summer Term							
		Math Elective**					3-4
		Humanities Elective**					3
		Subtotal					(6-7)
Fall Semester							
EDU	216	Foundations of Education	4	0	0	0	4
EDU	221	Children with Exceptionalities	3	0	0	0	3
		Science Elective**					4
		Social/Behavioral Science Elective**					3
		Subtotal					(14)
Spring Semester							
EDU	271	Educational Technology	2	2	0	0	3
EDU	285	Internship Exp-School-Age	1	9	0	0	4
EDU	289	Adv Issues/School Age	2	0	0	0	2
		Social/Behavioral Science Elective**					3
		Humanities Elective**					3
		Subtotal					(15)

**This program works in conjunction with the general education core. Electives listed in the above program of study must be selected from below. Several articulation agreements are in place with four-year universities. Students who wish to transfer should work closely with their advisor to choose the appropriate courses.

English Composition (6 semester hours required)							
ENG	111	Writing and Inquiry	3	0	0	0	3
ENG	112	Writing/Research in the Discipl	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
ART	114	Art History Survey I	3	0	0	0	3
ART	115	Art History Survey 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
Music							
MUS	110	Music Appreciation	3	0	0	0	3
Philosophy							
PHI	240	Introduction to Ethics	3	0	0	0	3
International Languages							
ASL	111	Elementary ASL I	3	0	0	0	3
ASL	112	Elementary ASL II	3	0	0	0	3
ASL	211	Intermediate ASL I	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
SPA	111	Elementary Spanish I	3	0	0	0	3
SPA	112	Elementary Spanish II	3	0	0	0	3
SPA	181	Spanish Lab 1*	0	2	0	0	1
SPA	182	Spanish Lab 2*	0	2	0	0	1
		Subtotal					(12)

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

Economics							
ECO	251	Principles of Microeconomics	3	0	0	0	3
ECO	252	Principles of Macroeconomics	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
Psychology							
PSY	150	General Psychology	3	0	0	0	3
Sociology							
SOC	210	Introduction to Sociology	3	0	0	0	3
		Subtotal					(9)

Science (4 semester credit hours required from the following)

BIO	111	General Biology I	3	3	0	0	4
BIO	112	General Biology II	3	3	0	0	4
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
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					(4)

Mathematics (3-4 semester hours required from the following.)

MAT	143	Quantitative Literacy	2	2	0	0	3
MAT	152	Statistical Methods I	3	2	0	0	4
MAT	171	Pre-calculus Algebra	3	2	0	0	4
		Subtotal					(3-4)

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

Total Semester Credit Hours in Program 67- 68

Education–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 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 page 11.

Task Stream: Students who graduate from the program must complete an electronic portfolio in Task Stream 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 Learning Center Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

To transfer to a four-year institution, students must earn acceptable scores on PRAXIS I before enrolling in a bachelor's degree in Education. Students should work closely with their advisor to make appropriate course choices.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
	Or						
ACA	122	College Transfer Success	0	2	0	0	1
EDU	144	Child Development I	3	0	0	0	3
EDU	163	Classroom Mgt and Instruct	3	0	0	0	3
EDU	173	Becoming a Prof'l in ECE	3	0	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
		Math Elective**					3-4
		Subtotal					(16-17)
Spring Semester							
ENG	112	Writing/Research in the Discipl	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	2	2	0	0	3
		Humanities Elective**					3
		Subtotal					(15)
Summer Term							
		Math Elective**					3-4
		Humanities Elective**					3
		Social/Behavioral Science Elective**					3
		Subtotal					(9-10)
Fall Semester							
EDU	216	Foundations of Education	4	0	0	0	4
EDU	221	Child with Exceptionalities	3	0	0	0	3
		Humanities Elective**					3
		Natural/Physical Science Elective**					4
		Subtotal					(14)
Spring Semester							
EDU	285	Internship Exp-School-Age	1	9	0	0	4
EDU	289	Adv Issues/School Age	2	0	0	0	2
		Social/Behavioral Science Elective**					3
		Science Elective**					4
		Subtotal					(13)

**This program works in conjunction with the general education core. Electives listed in the above program of study must be selected from below. Several articulation agreements are in place with four-year universities.

Students who wish to transfer should work closely with their advisor to choose the appropriate courses.

English Composition (6 semester hours required)							
ENG	111	Writing and Inquiry	3	0	0	0	3
ENG	112	Writing/Research in the Discipl	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
ART	114	Art History Survey I	3	0	0	0	3
ART	115	Art History Survey 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
Music							
MUS	110	Music Appreciation	3	0	0	0	3
Philosophy							
PHI	240	Introduction to Ethics	3	0	0	0	3
International Languages							
ASL	111	Elementary ASL I	3	0	0	0	3
ASL	112	Elementary ASL II	3	0	0	0	3
ASL	211	Intermediate ASL I	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
SPA	111	Elementary Spanish I	3	0	0	0	3
SPA	112	Elementary Spanish II	3	0	0	0	3
SPA	181	Spanish Lab 1*	0	2	0	0	1
SPA	182	Spanish Lab 2*	0	2	0	0	1
		Subtotal					(9)

Social/Behavioral Sciences

(6 semester hours required.) Two courses must be selected from different discipline areas. Note: HIS 111 or HIS 112 is required.

Economics

ECO	251	Principles of Microeconomics	3	0	0	0	3
ECO	252	Principles of Macroeconomics	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

Psychology

PSY	150	General Psychology	3	0	0	0	3

Sociology

SOC	210	Introduction to Sociology	3	0	0	0	3
		Subtotal					(6)

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
		Subtotal					(8)

Mathematics (6 semester hours required from the following)

MAT	143	Quantitative Literacy	2	2	0	0	3
MAT	152	Statistical Methods I	3	2	0	0	4
MAT	171	Pre-calculus Algebra	3	2	0	0	4
MAT	172	Pre-calculus Trigonometry	3	2	0	0	4
MAT	271	Calculus I	3	2	0	0	4
		Subtotal					(6)

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

Total Semester Credit Hours in Program 68-69

Electronics Engineering Technology (A40200)

Associate in Applied Science Degree

Engineering and Technology Pathway Description: These curriculums are designed to prepare students through the study and application of principles from mathematics, natural sciences, and technology and applied processes based on these subjects.

Course work includes mathematics, natural sciences, engineering sciences and technology.

Graduates should qualify to obtain occupations such as technical service providers, materials and technologies testing services, process improvement technicians, engineering technicians, construction technicians and managers, industrial and technology managers, or research technicians.

Electronics Engineering Technology program description: A course of study that prepares students to apply basic engineering principles and technical skills 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, communication systems, and power electronic systems. Includes instruction in mathematics, basic electricity, solid-state fundamentals, digital concepts, and microprocessors or programmable logic controllers. Graduates should qualify for employment as an electronics engineering technician, field service technician, instrumentation technician, maintenance technician, electronic tester, electronic systems integrator, bench technician, or 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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
DFT	170	Engineering Graphics	2	2	0	0	3
	Either						
EGR	111	Engineer Comp and Careers	2	2	0	0	3
	Or						
EGR	150	Introduction to Engineering	1	2	0	0	2
ELC	131	Circuit Analysis I	3	3	0	0	4
ENG	111	Writing and Inquiry	3	0	0	0	3
	Either						
MAT	121	Algebra/Trigonometry I	2	2	0	0	3
	Or						
MAT	171	Pre-calculus Algebra	3	2	0	0	4
		Subtotal					(16-18)
Spring Semester							
EGR	125	Appl Software for Tech	1	2	0	0	2
ELC	117	Motors and Controls	2	6	0	0	4
ELN	150	CAD for Electronics	1	3	0	0	2
	Either						
MAT	122	Algebra/ Trigonometry II	2	2	0	0	3
	Or						
MAT	172	Precalculus Trigonometry	3	2	0	0	4
PHY	131	Physics – Mechanics	3	2	0	0	4
		Subtotal					(15-16)
Summer Term							
ISC	112	Industrial Safety	2	0	0	0	2
ENG	114	Prof Research and Reporting	3	0	0	0	3
		Humanities Elective**					3
		Social/Behavioral Science Elective**					3
		Subtotal					(11)
Fall Semester							
ELC	128	Introduction to PLC	2	3	0	0	3
ELN	131	Analog Electronics	3	3	0	0	4
ELN	133	Digital Electronics	3	3	0	0	4
		Major Course Elective***					2-4
		Subtotal					(13-15)
Spring Semester							
ELC	228	PLC Applications	2	6	0	0	4
ELN	232	Intro to Microprocessors	3	3	0	0	4
ELN	234	Communication Systems	3	3	0	0	4
MEC	276	Capstone Design Project	0	3	0	0	1
MNT	160	Industrial Fabrication	1	3	0	0	2
		Subtotal					(15)

**Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on page 46.

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

CIS	115	Introduction to Prog/Logic	2	3	0	0	3
EGR	285	Design Project	0	4	0	0	2
ELC	213	Instrumentation	3	2	0	0	4
HYD	110	Hydraulics/Pneumatics	2	3	0	0	3
ISC	132	Mfg Quality Control	2	3	0	0	3
MAT	152	Statistical Methods I	3	2	0	0	4
MAT	271	Calculus I	3	2	0	0	4
MEC	111	Machine Processes I	1	4	0	0	3
NOS	110	Operating Systems Concepts	2	3	0	0	3
WBL	111	Work-Based Learning I	0	0	0	10	1
WBL	112	Work-Based Learning I	0	0	0	20	2
WBL	113	Work-Based Learning I	0	0	0	30	3
WBL	114	Work-Based Learning I	0	0	0	40	4
WBL	121	Work-Based Learning II	0	0	0	10	1
WBL	122	Work-Based Learning II	0	0	0	20	2
WBL	123	Work-Based Learning II	0	0	0	30	3
WBL	131	Work-Based Learning III	0	0	0	10	1
WBL	211	Work-Based Learning IV	0	0	0	10	1

Total Semester Credit Hours in Program 70-75

Electronics Engineering Technology (D40200)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ELC	128	Intro to PLC	2	3	0	0	3
ELC	131	Circuit Analysis I	3	3	0	0	4
ELN	131	Analog Electronics	3	3	0	0	4
ELN	133	Digital Electronics	3	3	0	0	4
MAT	121	Algebra/Trigonometry I	2	2	0	0	3
		Subtotal					(18)
Spring Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
EGR	125	Appl Software for Tech	1	2	0	0	2
ELC	117	Motors and Controls	2	6	0	0	4
ELN	150	CAD for Electronics	1	3	0	0	2
MAT	122	Algebra/ Trigonometry II	2	2	0	0	3
PHY	131	Physics – Mechanics	3	2	0	0	4
		Subtotal					(16)
Summer Term							
ENG	111	Writing and Inquiry	3	0	0	0	3
ISC	112	Industrial Safety	2	0	0	0	2
		Subtotal					(5)

Total Semester Credit Hours in Program 39

Electronics Engineering Technology – Basic Electronics (C40200BE)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Required Courses							
ACA	115	Success and Study Skills	0	2	0	0	1
	Either						
EGR	111	Engineer Comp and Careers	2	2	0	0	3
	Or						
EGR	150	Introduction to Engineering	1	2	0	0	2
ELC	131	Circuit Analysis I	3	3	0	0	4
EGR	125	Appl Software for Tech	1	2	0	0	2
ELC	117	Motors and Controls	2	6	0	0	4
	Either						
MAT	121	Algebra/Trigonometry I	2	2	0	0	3
	Or						
MAT	171	Pre-calculus Algebra	3	2	0	0	4

Total Semester Credit Hours in Program 16-18

Electronics Engineering Technology – Advanced Electronics (C40200AE)

Certificate

Students should take the Basic Electronics Certificate prior to the Advanced Electronics 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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Required Courses							
ELN	131	Analog Electronics	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	234	Communication Systems	3	3	0	0	4

Total Semester Credit Hours in Program 16

Electronics Engineering Technology – Industrial Electronics (C40200IE)

Certificate

Students should take the Basic Electronics Certificate prior to the Industrial Electronics 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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Required Courses							
ELC	128	Introduction to PLC	2	3	0	0	3
ELC	228	PLC Applications	2	6	0	0	4
ELN	234	Communication Systems	3	3	0	0	4
ISC	112	Industrial Safety	2	0	0	0	2
MAT	122	Algebra/ Trigonometry II	2	2	0	0	3
	Or						
MAT	172	Pre-calculus Trigonometry	3	2	0	0	4

Total Semester Credit Hours in Program 16-17

Students may earn additional certificates in the Engineering Technology Pathway programs. Speak to your faculty advisor for more information.

Emergency Medical Science (A45340)

Associate in Applied Science Degree

The Emergency Medical Science curriculum is designed to prepare graduates to enter the workforce as paramedics. Additionally, the program can provide an Associate Degree for individuals desiring an opportunity for career enhancement. The course of study provides the student an opportunity to acquire basic and advanced life support knowledge and skills by utilizing classroom instruction, practical laboratory sessions, hospital clinical experience, and field internships with emergency medical service agencies.

Students progressing through the program may be eligible to apply for both state and national certification exams. Employment opportunities include ambulance services, fire and rescue agencies, air medical services, specialty areas of hospitals, industry, educational institutions, 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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
BIO	163	Basic Anat & Physiology	4	2	0	0	5
EMS	110	EMT	6	6	0	0	8
MED	120	Survey of Med Terminology	2	0	0	0	2
		Subtotal					(16)
Spring Semester							
CIS	110	Introduction to Computers	2	2	0	0	3
EMS	122	EMS Clinical Practicum I	0	0	3	0	1
EMS	130	Pharmacology	3	3	0	0	4
EMS	131	Adv Airway Management	1	2	0	0	2
EMS	160	Cardiology I	1	3	0	0	2
MAT	110	Math Measurement & Literacy	2	2	0	0	3
		Subtotal					(15)
Summer Term							
EMS	220	Cardiology II	2	3	0	0	3
EMS	221	EMS Clinical Practicum II	0	0	6	0	2
EMS	260	Trauma Emergencies	1	3	0	0	2
PSY	150	General Psychology	3	0	0	0	3
		Subtotal					(10)
Fall Semester							
EMS	231	EMS Clinical Practicum III	0	0	9	0	3
EMS	240	Patients w/ Special Challenges	1	2	0	0	2
EMS	250	Medical Emergencies	3	3	0	0	4
EMS	270	Life Span Emergencies	2	3	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
		Subtotal					(15)
Spring Semester							
EMS	241	EMS Clinical Practicum IV	0	0	12	0	4
EMS	285	EMS Capstone	1	3	0	0	2
		Either					
EMS	115	Defense Tactics for EMS	1	3	0	0	2
		Or					
EMS	235	EMS Management	2	0	0	0	2
ENG	114	Prof Research & Reporting	3	0	0	0	3
		Humanities Elective**					3
		Subtotal					(14)

**Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on page 46.

Total Semester Credit Hours in Program 70

Emergency Medical Science (A45340B)

Bridge Program

The Emergency Medical Science bridge program has been established for students that have completed portions of their EMS requirements through a North Carolina community college Continuing Education program. In order to receive curriculum credit for EMS Continuing Education courses students must hold a current North Carolina EMT/PARAMEDIC credential. Students must also successfully complete a comprehensive EMS entrance examination scoring a grade of “C” or better on the examination. Individuals successfully meeting the EMS entrance requirements will need to take the following classes to complete their EMS Associate of Applied Science Degree with Blue Ridge Community College.

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
BIO	163	Basic Anatomy & Physiology	4	2	0	0	5
EMS	280	Bridging Course	2	2	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
PSY	150	General Psychology	3	0	0	0	3
		Subtotal					(15)
Spring Semester							
CIS	110	Introduction to Computers	2	2	0	0	3
EMS	235	EMS Management	2	0	0	0	2
EMS	285	EMS Capstone	1	3	0	0	2
ENG	114	Prof Research & Reporting	3	0	0	0	3
MAT	110	Math Measurement & Literacy	2	2	0	0	3
		Humanities Elective**					3
		Subtotal					(16)

Total Semester Credit Hours in Program.....31

Emergency Medical Science (D45340)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
EMS	110	EMT	6	6	0	0	8
		Subtotal					(8)
Spring Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
BIO	163	Basic Anatomy & Physiology	4	2	0	0	5
EMS	122	EMS Clinical Practicum I	0	0	3	0	1
EMS	130	Pharmacology	3	3	0	0	4
EMS	160	Cardiology I	1	3	0	0	2
		Subtotal					(15)
Summer Term							
EMS	220	Cardiology II	2	3	0	0	3
EMS	221	EMS Clinical Practicum II	0	0	6	0	2
EMS	260	Trauma Emergencies	1	3	0	0	2
PSY	150	General Psychology	3	0	0	0	3
		Subtotal					(10)
Fall Semester							
EMS	231	EMS Clinical Practicum III	0	0	9	0	3
EMS	250	Medical Emergencies	3	3	0	0	4
ENG	111	Writing and Inquiry	3	0	0	0	3
		Subtotal					(15)
Spring Semester							
EMS	241	EMS Clinical Practicum IV	0	0	12	0	4
EMS	285	EMS Capstone	1	3	0	0	2
		Subtotal					(6)

Total Semester Credit Hours in Program 54

Emergency Medical Science (C45340)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
BIO	163	Basic Anatomy & Physiology	4	2	0	0	5
EMS	110	EMT	6	6	0	0	8
MED	120	Survey of Med Terminology	2	0	0	0	2

Total Semester Credit Hours in Program 16

Environmental Science Technology (A20140)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
BIO	111	General Biology	3	3	0	0	4
EHS	114	OSHA Regulations	4	0	0	0	4
ENG	111	Writing and Inquiry	3	0	0	0	3
MAT	121	Algebra/Trigonometry I	2	2	0	0	3
		Subtotal					(15)
Spring Semester							
ENG	112	Writing/Research in the Discipl	3	0	0	0	3
	Or						
ENG	114	Prof Research and Reporting	3	0	0	0	3
BIO	140	Environmental Biology	3	0	0	0	3
BIO	140A	Environmental Biology Lab*	0	3	0	0	1
PHS	130	Earth Science	3	2	0	0	4
		Social/Behavioral Science Elective**					3
		Subtotal					(14)
Summer Term							
CIS	110	Introduction to Computers	2	2	0	0	3
BIO	145	Ecology	3	3	0	0	4
		Major Course Elective***					3
		Subtotal					(10)
Fall Semester							
BIO	240	Waste Management	3	0	0	0	3
CHM	131	Introduction to chemistry	3	0	0	0	3
	And						
CHM	131A	Intro to Chemistry Lab*	0	3	0	0	1
	Or						
CHM	151	General Chemistry I	3	3	0	0	4
ENV	218	Environmental Health	3	0	0	0	3
		Humanities Elective**					3
		Major Course Elective***					3
		Subtotal					(16)
Spring Semester							
BIO	175	General Microbiology	2	2	0	0	3
	Or						
CHM	132	Organic and Biochemistry	3	3	0	0	4
ENV	214	Water Quality	3	2	0	0	4
ENV	226	Environmental Law	3	0	0	0	3
ENV	228	Environmental Issues	1	0	0	0	1
		Subtotal					(11-12)

*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 page 46.

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

ALT	120	Renewable Energy Tech	2	2	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	163	Basic Anatomy and Physiology	4	2	0	0	5
BIO	242	Natural Resource Conserv	3	0	0	0	3
CHM	132	Organic/Biochemistry	3	3	0	0	4
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 Bldg & Design Concepts	3	0	0	0	0
WAT	110	Basic Wastewater Trmt	2	3	0	0	3
WBL	111	Work-Based Learning I	0	0	0	10	1
WBL	112	Work-Based Learning I	0	0	0	20	2
WBL	113	Work-Based Learning I	0	0	0	30	3

Total Semester Credit Hours in Program 66-67

Environmental Science Technology (D20140)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
BIO	111	General Biology	3	3	0	0	4
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
MAT	121	Algebra/Trigonometry I	2	2	0	0	3
		Subtotal					(16)
Spring Semester							
BIO	140	Environmental Biology	3	0	0	0	3
BIO	140A	Environmental Biology Lab*	0	3	0	0	1
ENG	111	Writing and Inquiry	3	0	0	0	3
ENV	226	Environmental Law	3	0	0	0	3
PHS	130	Earth Science	3	2	0	0	4
		Subtotal					(14)
Summer Term							
CIS	110	Introduction to Computers	2	2	0	0	3
		Major Course Electives***					7
		Subtotal					(10)

*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
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	Waste Management	3	0	0	0	3
CHM	132	Organic/Biochemistry	3	3	0	0	4
EHS	215	Incident Management	3	2	0	0	4
ENV	214	Water Quality	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	Ener					
gy Use Analysis			2	2	0	0	3
SST	140	Green Bldg & Design Concepts	3	0	0	0	3
WAT	110	Basic Wastewater Trmt	2	3	0	0	3
WBL	111	Work-Based Learning I	0	0	0	10	1
WBL	112	Work-Based Learning I	0	0	0	20	2
WBL	113	Work-Based Learning I	0	0	0	30	3

Total Semester Credit Hours in Program 40

Environmental Science Technology (C20140)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Required Courses							
BIO	140	Environmental Biology	3	0	0	0	3
BIO	140A	Environmental Biology Lab*	0	3	0	0	1
BIO	240	Waste Management	3	0	0	0	3
EHS	114	OSHA Regulations	4	0	0	0	4
ENV	226	Environmental Law	3	0	0	0	3
		Major Course Electives***					3-4

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

EHS	215	Incident Management	3	2	0	0	4
SST	110	Intro to Sustainability	3	0	0	0	3
SST	120	Energy Use Analysis	2	2	0	0	3
SST	140	Green Bldg & Design Concepts	3	0	0	0	3
WAT	110	Basic Wastewater Trmt	2	3	0	0	3

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

Total Semester Credit Hours in Program 17-18

Esthetics Instructor (C55270)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
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 (C55230)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
COS	119	Esthetics Concepts I	2	0	0	0	2
COS	120	Esthetics Salon I	0	18	0	0	6
		Subtotal					(8)
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 16

Film and Video Production Technology (A30140)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	2	0	0	0	1
ENG	111	Writing and Inquiry	3	0	0	0	3
FVP	111	Intro to Film and Video	2	3	0	0	3
FVP	114	Camera and Lighting I	2	3	0	0	3
FVP	116	Sound Operations	2	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	0	3
	Or						
MAT	171	Pre-calculus Algebra	3	2	0	0	4
		Subtotal					(16-17)
Spring Semester							
ENG	112	Writing/Research in the Discipl	3	0	0	0	3
	Or						
ENG	114	Profess Research and Report	3	0	0	0	3
FVP	112	Art Dept. Operations I	1	4	0	0	3
FVP	113	Grip and Electrical I	1	4	0	0	3
FVP	115	Camera and Lighting II	2	3	0	0	3
FVP	220	Editing I	2	3	0	0	3
		Subtotal					(15)
Summer Term							
FVP	120	Art Dept. Operations II	1	4	0	0	3
		Humanities Elective**					3
		Major Course Elective***					1-3
		Subtotal					(7-9)
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
FVP	238	Software Apps for FVP	2	3	0	0	3
		Social/Behavioral Science Elective**					3
		Subtotal					(17)
Spring Semester							
FVP	213	Production Techniques II	1	12	0	0	5
FVP	215	Production Management	2	3	0	0	3
FVP	223	Postproduction Sound Design	1	4	0	0	3
FVP	227	Multimedia Production	2	3	0	0	3
		Subtotal					(14)

**Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on page 46.

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

ART	131	Drawing I	0	6	0	0	3
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	264	Digital Photography I	1	4	0	0	4
ART	265	Digital Photography II	1	4	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
CIS	110	Introduction to Computers	2	2	0	0	3
COM	231	Public Speaking	3	0	0	0	3
WBL	111	Work Based Learning I	0	0	0	10	1
WBL	121	Work Based Learning II	0	0	0	20	2
WBL	131	Work Based Learning III	0	0	0	30	3

Total Hours in the Program 69-72

Film and Video Production Technology (D30140)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
ENG	111	Writing and Inquiry	3	0	0	0	3
FVP	111	Intro to Film and Video	2	3	0	0	3
FVP	114	Camera and Lighting I	2	3	0	0	3
FVP	116	Sound Operations	2	3	0	0	3
		Subtotal					(13)
Spring Semester							
FVP	112	Art Dept. Operations I	1	4	0	0	3
FVP	113	Grip and Electrical I	1	4	0	0	3
FVP	215	Production Management	2	3	0	0	3
FVP	220	Editing I	2	3	0	0	3
		Major Course Elective***					3
		Subtotal					(15)
Summer Term							
MAT	143	Quantitative Literacy	2	2	0	0	3
	Or						
MAT	171	Pre-calculus Algebra	3	2	0	0	4
		Subtotal					(3-4)
Fall Semester							
FVP	212	Production Techniques I	1	12	0	0	5
FVP	238	Software Apps for FVP	2	3	0	0	3
		Subtotal					(8)

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

FVP	115	Camera & Lighting II	2	3	0	0	3
FVP	221	Editing II	2	3	0	0	3
FVP	223	Postproduction Sound Design	1	4	0	0	3

Total Semester Credit Hours in Program 39

Film and Video Production Technology (C30140)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
FVP	111	Intro to Film and Video	2	3	0	0	3
FVP	114	Camera and Lighting I	2	3	0	0	3
FVP	116	Sound Operations	2	3	0	0	3
		Subtotal					(9)
Spring Semester							
FVP	112	Art Dept. Operations I	1	4	0	0	3
	Or						
FVP	113	Grip and Electrical I	1	4	0	0	3
FVP	220	Editing I	2	3	0	0	3
		Subtotal					(6)

Total Semester Credit Hours in Program 15

Fire Protection Technology (A55240)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skill	0	2	0	0	1
ENG	111	Writing and Inquiry	3	0	0	0	3
FIP	120	Intro to Fire Protection	3	0	0	0	3
FIP	124	Fire Prevention and Public Ed	3	0	0	0	3
FIP	128	Detection and Investigation	3	0	0	0	3
		Subtotal					(13)
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	Fire Fighting Strategies	3	0	0	0	3
FIP	228	Local Government Finance	3	0	0	0	3
		Subtotal					(15)
Summer Term							
CIS	110	Introduction to Computers	2	2	0	0	3
MAT	110	Math Measurement & Literacy	2	2	0	0	3
		Humanities/Fine Arts					3
		Subtotal					(9)
Fall Semester							
FIP	146	Fire Protection Systems	3	2	0	0	4
FIP	230	Chem of Hazardous Mat I	5	0	0	0	5
FIP	276	Managing Fire Services	3	0	0	0	3
		Major Course Elective***					3-4
		Subtotal					(15-16)
Spring Semester							
FIP	164	OSHA Standards	3	0	0	0	3
FIP	221	Adv Fire Fighting Strategies	3	0	0	0	3
FIP	240	Fire Service Supervision	3	0	0	0	3
PSY	150	General Psychology	3	0	0	0	3
		Major Course Elective***					3-4
		Subtotal					(15-16)

**Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on page 46.

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

FIP	136	Inspections and Codes	3	0	0	0	3
FIP	224	Fire Instructor I & II	4	0	0	0	4
FIP	226	Fire Officer I & II	4	0	0	0	4
FIP	232	Hydraulics and Water	2	2	0	0	3
FIP	248	Fire Service Personnel Admin	3	0	0	0	3
FIP	256	Municipal Public Relations	3	0	0	0	3
FIP	260	Fire Protect Planning	3	0	0	0	3
FIP	277	Fire and Social Behavior	3	0	0	0	3

Total Semester Credit Hours in Program 67-69

Fire Protection Technology (D55240)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skill	0	2	0	0	1
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
FIP	146	Fire Protection Systems	3	2	0	0	4
FIP	276	Managing Fire Services	3	0	0	0	3
		Subtotal					(17)
Spring Semester							
FIP	132	Building Construction	3	0	0	0	3
FIP	152	Fire Protection Law	3	0	0	0	3
FIP	220	Fire Fighting Strategies	3	0	0	0	3
FIP	221	Adv Firefighting Strategies	3	0	0	0	3
FIP	228	Local Government Finance	3	0	0	0	3
FIP	240	Fire Service Supervision	3	0	0	0	3
		Subtotal					(18)
Summer Term							
CIS	110	Introduction to Computers	2	2	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
		Subtotal					(6)

Total Semester Credit Hours in Program 41

Fire Protection Technology (C55240)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
FIP	120	Intro to Fire Protection	3	0	0	0	3
FIP	124	Fire Prevention and Public Edu	3	0	0	0	3
		Subtotal					(6)
Spring Semester							
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
FIP	228	Local Government Finance	3	0	0	0	3
		Subtotal					(12)

Total Semester Credit Hours in Program 18

General Education (A10300)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Required General Education Courses							
ENG	111	Writing and Inquiry	3	0	0	0	3
ENG	112	Writing/Research in the Discipl	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 1*	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 1*	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)							
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	143	Quantitative Literacy	2	2	0	0	3
MAT	171	Pre-calculus Algebra	3	2	0	0	4
PHY	151	College Physics I	3	2	0	0	4
		Subtotal					(3)
Oral Communication							
COM	231	Public Speaking	3	0	0	0	3
		Subtotal					(3)
Other Required Hours (46-47 semester credit hours)							
ACA	115	Success and Study Skills	0	2	0	0	1

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:

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	143	Volleyball-Beginning	0	2	0	0	1
PED	186	Dancing for Fitness	0	2	0	0	1
PED	217	Pilates I	0	2	0	0	1
PED	218	Pilates II	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 (A55280)

Associate in Applied Science Degree

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

The curriculum content will be customized for students according to occupational interests and needs. A program of study for each student will be selected from any non-developmental 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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

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

Forty-nine additional credit hours must be chosen from a combination of major courses for curriculums approved to be offered by the college. Work-based Learning may be included up to a maximum of 8 semester hours of credit.

**Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on page 46.

Total Semester Credit Hours in Program 65

Health Science: Therapeutic and Diagnostic Services

Diploma

This curriculum is designed to prepare students for careers in the Health Sciences.

Students will complete general education courses that provide a foundation for success in nursing and allied health curricula. Students may select a career pathway that will prepare them for an entry level position in health care. Courses may also provide foundational knowledge needed in the pursuit of advanced health science degrees or programs.

Graduates should qualify for an entry-level job associated with the program major such as Emergency Medical Technician (EMT) or Advanced Emergency Medical Technician (AEMT), Medical Assistant, Nursing Assistant, Pharmacy Technician, Phlebotomist, or Massage Therapist dependent upon the selected program major.

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

Emergency Medical Science (D45910)

A program that prepares graduates to enter the workforce as Emergency Medical Technicians or Advanced Emergency Medical Technicians. The course of study provides the student an opportunity to acquire basic life support knowledge and skills by utilizing classroom instruction, practical laboratory sessions, and hospital/field internships. Students progressing through the program may be eligible to apply for both state and national certification exams. Employment opportunities include ambulance services, fire and rescue agencies, air medical services, specialty areas of hospitals, industry, educational institutions, and government agencies.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
BIO	165	Anatomy and Physiology I	3	3	0	0	4
EMS	110	EMT	6	6	0	0	8
HSC	110	Orientation to Health Careers	1	0	0	0	1
MED	120	Survey of Medical Terminology	2	0	0	0	2
		Subtotal					(16)
Spring Semester							
BIO	166	Anatomy and Physiology II	3	3	0	0	4
EMS	120	Advanced EMT	4	6	0	0	6
EMS	121	AEMT Clinical Practicum I	0	0	6	0	2
ENG	111	Writing and Inquiry	3	0	0	0	3
PSY	150	General Psychology	3	0	0	0	3
		Subtotal					(18)
Summer Term							
ENG	114	Prof Research and Reporting	3	0	0	0	3
PSY	241	Developmental Psychology	3	0	0	0	3
		Subtotal					(6)

Total Semester Credit Hours in Program 40

High School Programs
Career and College Promise

Success in today's global economy may require a two or four year degree, a Certificate, or Diploma. Through Career & College Promise (CCP), qualified high school juniors and seniors in North Carolina have the opportunity to pursue these options, tuition free, while they are in high school, allowing them to get a jumpstart on their workplace and college preparation.

Blue Ridge Community College offers the Career and College Promise options listed below to help advance eligible students' post-high school success:

College Transfer – College transfer pathways provide up to 35 hours of tuition-free course credits toward the Associate in Arts (AA) or Associate in Science (AS) degree. All the courses are a part of the Universal General Education Transfer Component (UGETC) of the Comprehensive Articulation Agreement (CAA) between the 16 universities of the UNC system and the Community College System. All universities in the UNC system have agreed to accept these courses as general education courses. A student completing these courses and the additional courses required for an AA or AS, and following the requirements of the CAA, will be able to transfer to one of the UNC schools as a junior. Many private colleges in the state also agree to the CAA. By completing an AA or AS prior to transfer, the student will save considerable time and money in pursuing four-year degrees. To begin one of these pathways, the student must be a high school junior or senior, be "college-ready", and have a weighted high school GPA of 3.0.

Career Technical Education – Technical careers programs provide a means for high school students to earn tuition-free course credits at an NC Community College toward a job credential, Certificate or Diploma in a technical career. BRCC offers a number of programs leading to CCP Certificates or Diplomas–as shown below.

Henderson County Early College High School (HCECHS) – HCECHS allows high school students to begin earning tuition-free college credits in the ninth grade. HCECHS is housed at BRCC on the Henderson County Campus. All offices and classrooms for the high school are located in the Industrial Skills Center. Admittance to HCECHS is through an application and selection process. For additional information, contact HCECHS at 120 Alumni Way, Flat Rock, NC 28731, phone (828) 697-4561, or on the web at www.hendersoncountypublicschoolsnc.org.

Special admission procedures for the High School programs are outlined on page 11.

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

College Transfer Pathways for High School Students

Associate in Arts Pathway (P1012C)

This pathway is designed for high school juniors and seniors who wish to begin study toward an Associate in Arts degree and a baccalaureate degree in a non-STEM major.

			Class	Lab	Clinic	Work Exp.	Credit
Required courses (7 semester hours required)							
ACA	122	College Transfer Success	0	2	0	0	1
ENG	111	Writing and Inquiry	3	0	0	0	3
ENG	112	Writing/Research in the Discipl	3	0	0	0	3
		Subtotal					(7)
Humanities/Fine Arts (9 semester hours required)							
Three courses from at least two different discipline areas must be selected. A literature course must be taken.							
ART	111	Art Appreciation	3	0	0	0	3
ART	114	Art History Survey I	3	0	0	0	3
ART	115	Art History Survey II	3	0	0	0	3
COM	231	Public Speaking	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
MUS	110	Music Appreciation	3	0	0	0	3
PHI	240	Introduction to Ethics	3	0	0	0	3
		Subtotal					(9)
Social/Behavioral Science (9 semester hours required)							
Three courses from at least two different areas must be selected. HIS 111 or HIS 112 must be taken.							
ECO	251	Principles of Microeconomics	3	0	0	0	3
ECO	252	Principles of Macroeconomics	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
PSY	150	General Psychology	3	0	0	0	3
SOC	210	Introduction to Sociology	3	0	0	0	3
		Subtotal					(9)
Mathematics (Select one course from the following.)							
MAT	143	Quantitative Literacy	2	2	0	0	3
MAT	152	Statistical Methods I	3	2	0	0	4
MAT	171	Pre-Calculus Algebra	3	2	0	0	4
		Subtotal					(3-4)
Natural Sciences (4 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
CHM	151	General Chemistry I	3	3	0	0	4
		Subtotal					(4)

*OPTIONAL GENERAL EDUCATION HOURS (0-8 SHC)
A student may take up to 8 SHC of foreign language courses and accompanying labs, in a single language, designated as General Education in the CAA as a part of this pathway. These courses are not a part of the Universal General Education Transfer Component. Students who complete these courses with a grade of "C" or better will receive transfer credit. The receiving university will determine whether the courses will count as general education, pre-major, or elective credit.

Total Semester Credit Hours in Pathway 32-41*

Associate in Science Pathway (P1042C)

This pathway is designed for high school juniors and seniors who wish to begin study toward an Associate in Arts degree and a baccalaureate degree in a STEM or technical major.

Required courses (7 semester hours required)

ENG	111	Writing and Inquiry	3	0	0	0	3
ENG	112	Writing/Research in the Discipl	3	0	0	0	3
ACA	122	College Transfer Success	0	2	0	0	1
		Subtotal					(7)

Humanities/Fine Arts (6 semester hours required)

Two courses from two different discipline areas must be selected. One must be a literature course.

ART	111	Art Appreciation	3	0	0	0	3
ART	114	Art History Survey I	3	0	0	0	3
ART	115	Art History Survey II	3	0	0	0	3
COM	231	Public Speaking	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
MUS	110	Music Appreciation	3	0	0	0	3
PHI	240	Introduction to Ethics	3	0	0	0	3
		Subtotal					(6)

Social/Behavioral Science (6 semester hours required)

Two courses from two different discipline areas must be selected. HIS 111 or HIS 112 must be taken.

ECO	251	Principles of Microeconomics	3	0	0	0	3
ECO	252	Principles of Macroeconomics	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
PSY	150	General Psychology	3	0	0	0	3
SOC	210	Introduction to Sociology	3	0	0	0	3
		Subtotal					(6)

Mathematics (Select two courses from the following.)

MAT	171	Pre-Calculus Algebra	3	2	0	0	4
MAT	172	Pre-Calculus Trigonometry	3	2	0	0	4
MAT	271	Calculus I	3	2	0	0	4
		Subtotal					(8)

Natural Sciences (One science sequence must be selected from the following.)

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

*OPTIONAL GENERAL EDUCATION HOURS (0-8 SHC)

A student may take up to 8 SHC of foreign language courses and accompanying labs, in a single language, designated as General Education in the CAA as a part of this pathway. These courses are not a part of the Universal General Education Transfer Component. Students who complete these courses with a grade of "C" or better will receive transfer credit. The receiving university will determine whether the courses will count as general education, pre-major, or elective credit.

Total Semester Credit Hours in Pathway 35-43*

Career Technical Education Pathways for High School Students

Alternative Transportation Technology Diploma – CCP (D60420P)

			Class	Lab	Clinic	Work Exp.	Credit
ACA	115	Success and Study Skills	0	2	0	0	1
ATT	115	Green Trans Safety and Service	1	2	0	0	2
ATT	125	Hybrid-Electric Transportation	2	4	0	0	4
ATT	130	Biofuels for Transportation	2	3	0	0	3
ATT	135	Gaseous Fuels for Transport	2	3	0	0	3
ATT	140	Emerging Transport Tech	2	3	0	0	3
AUT	151	Brake Systems	2	3	0	0	3
AUT	151A	Brake Systems Lab	0	3	0	0	1
ENG	111	Writing and Inquiry	3	0	0	0	3
MAT	110	Math Measurement & Literacy	2	2	0	0	3
TRN	110	Intro to Transport Tech	1	2	0	0	2
TRN	120	Basic Transport Electricity	4	3	0	0	5
TRN	130	Intro to Sustainable Transport	2	2	0	0	3
TRN	140	Transport Climate Control	1	2	0	0	2
TRN	140A	Transport Climate Control Lab*	1	2	0	0	2
TRN	170	PC Skills for Transport	1	2	0	0	2
TRN	180	Basic Welding for Transport	1	4	0	0	3

Total Semester Credit Hours in Program 45

Alternative Transportation Technology – Alternative Fuels Certificate – CCP (C60420FP)

			Class	Lab	Clinic	Work Exp.	Credit
ATT	115	Green Trans Safety and Service	1	2	0	0	2
ATT	135	Gaseous Fuels for Trans	2	3	0	0	3
ATT	140	Emerging Transport Tech	2	3	0	0	3
TRN	110	Intro to Transport Tech	1	2	0	0	2
TRN	120	Basic Transport Electricity	4	3	0	0	5
TRN	130	Intro to Sustainable Trans	2	2	0	0	3

Total Semester Credit Hours in Program 18

Automotive Light-Duty Diesel Technology Diploma – CCP (D60430P)

			Class	Lab	Clinic	Work Exp.	Credit
ACA	115	Success and Study Skills	0	2	0	0	1
ATT	130	Biofuels for Transportation	2	3	0	0	3
AUT	141	Suspension & Steering Sys	2	3	0	0	3
AUT	141A	Suspension & Steering Sys Lab	0	3	0	0	1
ENG	111	Writing and Inquiry	3	0	0	0	3
LDD	112	Intro to Light-Duty Diesel	2	2	0	0	3
LDD	116	Diesel Electric Drive	2	6	0	0	4
LDD	181	LDD Fuel Systems	2	6	0	0	4
LDD	183	Air, Exhaust, Emissions	2	6	0	0	4
MAT	110	Math Measurement & Literacy	2	2	0	0	3
TRN	110	Intro to Transport Tech	1	2	0	0	2
TRN	120	Basic Transport Electricity	4	3	0	0	5
TRN	130	Intro to Sustainable Trans	2	2	0	0	3
TRN	140	Transport Climate Control	1	2	0	0	2
TRN	140A	Transport Climate Control Lab*	1	2	0	0	2
TRN	170	PC Skills for Transport	1	2	0	0	2
TRN	180	Basic Welding for Transport	1	4	0	0	3

Total Semester Credit Hours in Program 48

Automotive Light-Duty Diesel Technology - Light-Duty Diesel Fuel Systems Certificate – CCP (C60430LP)

			Class	Lab	Clinic	Work Exp.	Credit
LDD	112	Intro Light-Duty Diesel	2	2	0	0	3
LDD	181	LDD Fuel Systems	2	6	0	0	4
LDD	183	Air, Exhaust, Emissions	2	6	0	0	4
TRN	110	Intro to Transport Tech	1	2	0	0	2
TRN	120	Basic Transport Electricity	4	3	0	0	5

Total Semester Credit Hours in Program 18

Automotive Systems Technology Diploma – CCP (D60160P)

			Class	Lab	Clinic	Work Exp.	Credit
ACA	115	Success and Study Skills	0	2	0	0	1
AUT	113	Automotive Servicing I	0	6	0	0	2
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	181	Engine Performance 1	2	3	0	0	3
AUT	181A	Engine Performance 1 Lab*	0	3	0	0	1
AUT	183	Engine Performance 2	2	6	0	0	4
ENG	111	Writing and Inquiry	3	0	0	0	3
MAT	110	Math Measurement & Literacy	2	2	0	0	3
TRN	110	Intro to Transport Tech	1	2	0	0	2
TRN	120	Basic Transport Electricity	4	3	0	0	5
TRN	130	Intro to Sustainable Trans	2	2	0	0	3
TRN	140	Transport Climate Control	1	2	0	0	2
TRN	140A	Transport Climate Control Lab*	1	2	0	0	2
TRN	170	PC Skills for Transport	1	2	0	0	2
TRN	180	Basic Welding for Transport	1	4	0	0	3
TRN	180A	Basic Welding for Trans Lab*	0	3	0	0	1

Total Semester Credit Hours in Program 45

Automotive Systems Technology – Mobile Equipment Technician Certificate – CCP (C60160MP)

			Class	Lab	Clinic	Work Exp.	Credit
TRN	110	Intro to Transport Tech	1	2	0	0	2
TRN	120	Basic Transport Electricity	4	3	0	0	5
TRN	140	Transport Climate Control	1	2	0	0	2
TRN	140A	Transport Climate Control Lab*	1	2	0	0	2
TRN	170	PC Skills for Transport	1	2	0	0	2
TRN	180	Basic Welding for Transport	1	4	0	0	3
TRN	180A	Basic Welding for Trans Lab*	0	3	0	0	1

Total Semester Credit Hours in Program 17

Automotive Systems Technology – Chassis Technician Certificate – CCP (C60160CP)

			Class	Lab	Clinic	Work Exp.	Credit
AUT	141	Suspension and Steering	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
TRN	110	Intro to Transport Tech	1	2	0	0	2
TRN	120	Basic Transport Electricity	4	3	0	0	5
TRN	170	PC Skills for Transport	1	2	0	0	2

Total Semester Credit Hours in Program 17

Business Administration Certificate – CCP (C25120P)

			Class	Lab	Clinic	Work Exp.	Credit
BUS	110	Introduction to Business	3	0	0	0	3
BUS	115	Business Law I	3	0	0	0	3
BUS	137	Principles of Management	3	0	0	0	3
CIS	110	Introduction to Computers	3	0	0	0	3
MKT	120	Principles of Marketing	3	0	0	0	3

Total Semester Credit Hours in Program 15

Collision Repair and Refinishing Technology Diploma – CCP (D60130P)

			Class	Lab	Clinic	Work Exp.	Credit
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	131	Structural Damage I	2	4	0	0	4
AUB	136	Plastics and Adhesives	1	4	0	0	3
AUB	160	Body Shop Operations	1	0	0	0	1
AUB	162	Autobody Estimating	1	2	0	0	2
ENG	111	Writing and Inquiry	3	0	0	0	3
MAT	110	Math Measurement & Literacy	2	2	0	0	3
TRN	110	Intro to Transport Tech	1	2	0	0	2
TRN	120	Basic Transport Electricity	4	3	0	0	5
TRN	140	Transport Climate Control	1	2	0	0	2
TRN	140A	Transport Climate Control Lab*	1	2	0	0	2
TRN	170	PC Skills for Transport	1	2	0	0	2
TRN	180	Basic Welding for Transport	1	4	0	0	3
TRN	180A	Basic Welding for Trans Lab*	0	3	0	0	1

Total Semester Credit Hours in Program 41

Collision Repair and Refinishing – Insurance Estimating Certificate – CCP (C60130IP)

			Class	Lab	Clinic	Work Exp.	Credit
AUB	111	Painting and Refinishing I	2	6	0	0	4
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
TRN	110	Intro to Transport Tech	1	2	0	0	2
TRN	170	PC Skills for Transport	1	2	0	0	2

Total Semester Credit Hours in Program 18

Computer-Integrated Machining Diploma – CCP (D50210P)

			Class	Lab	Clinic	Work Exp.	Credit
ACA	115	Success and Study Skills	0	2	0	0	1
BPR	111	Print Reading	1	2	0	0	2
CIS	110	Introduction to Computers	2	2	0	0	3
DFT	151	CAD I	2	3	0	0	3
DFT	154	Intro Solid Modeling	2	3	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
MAC	111	Machining Technology I	2	12	0	0	6
MAC	112	Machining Technology II	2	12	0	0	6
MAC	121	Intro to CNC	2	0	0	0	2
MAC	122	CNC Turning	1	3	0	0	2
MAC	124	CNC Milling	1	3	0	0	2
MAC	151	Machining Calculations	1	2	0	0	2
MAT	143	Quantitative Literacy	2	2	0	0	3

Total Semester Credit Hours in Program 38

Computer-Integrated Machining – CNC Turning Operator Certificate – CCP (C50210TP)

			Class	Lab	Clinic	Work Exp.	Credit
BPR	111	Print Reading	1	2	0	0	2
MAC	111	Machining Technology I	2	12	0	0	6
MAC	112	Machining Technology II	2	12	0	0	6
MAC	121	Intro to CNC	2	0	0	0	2
MAC	122	CNC Turning	1	3	0	0	2

Total Semester Credit Hours in Program 18

Computer-Integrated Machining – CNC Milling Operator Certificate – CCP (C50210MP)

			Class	Lab	Clinic	Work Exp.	Credit
BPR	111	Print Reading	1	2	0	0	2
MAC	111	Machining Technology I	2	12	0	0	6
MAC	112	Machining Technology II	2	12	0	0	6
MAC	121	Intro to CNC	2	0	0	0	2
MAC	124	CNC Milling	1	3	0	0	2

Total Semester Credit Hours in Program 18

Computer-Integrated Machining – Machinist – Entry Certificate – CCP (C50210EP)

			Class	Lab	Clinic	Work Exp.	Credit
BPR	111	Print Reading	1	2	0	0	2
ISC	112	Industrial Safety	2	0	0	0	2
MAC	111	Machining Technology I	2	12	0	0	6
MAC	112	Machining Technology II	2	12	0	0	6
MAC	151	Machining Calculations	1	2	0	0	2

Total Semester Credit Hours in Program 18

Computer-Integrated Machining - Engine Machine Shop Certificate – CCP (C50210AP)

			Class	Lab	Clinic	Work Exp.	Credit
AUT	116	Engine Repair	2	3	0	0	3
AUT	116A	Engine Repair Lab*	0	3	0	0	1
MAC	111	Machining Technology I	2	12	0	0	6
MAC	112	Machining Technology II	2	12	0	0	6
MAC	151	Machining Calculations	1	2	0	0	2

Total Semester Credit Hours in Program 18

Cosmetology Certificate – CCP (C55140P)

			Class	Lab	Clinic	Work Exp.	Credit
COS	111	Cosmetology Concepts I	4	0	0	0	4
COS	112	Salon I	0	24	0	0	8
COS	113	Cosmetology Concepts II	4	0	0	0	4
COS	114	Salon II	0	24	0	0	8
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

Total Semester Credit Hours in Program 34

Criminal Justice Technology Diploma – CCP (D55180P)

			Class	Lab	Clinic	Work Exp.	Credit
ACA	115	Success and Study Skills	0	2	0	0	1
CJC	111	Intro to Criminal Justice	3	0	0	0	3
CJC	112	Criminology	3	0	0	0	3
CJC	113	Juvenile Justice	3	0	0	0	3
CJC	121	Law Enforcement Operations	3	0	0	0	3
CJC	131	Criminal Law	3	0	0	0	3
CJC	141	Corrections	3	0	0	0	3
CJC	212	Ethics & Community Relations	3	0	0	0	3
CJC	221	Investigative Principles	3	2	0	0	4
CJC	222	Criminalistics	3	0	0	0	3
CJC	231	Constitutional Law	3	0	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
MAT	110	Math Measurement & Literacy	3	0	0	0	3

Total Semester Credit Hours in Program 38

Criminal Justice Technology Certificate – CCP (C55180P)

			Class	Lab	Clinic	Work Exp.	Credit
CJC	111	Intro to Criminal Justice	3	0	0	0	3
CJC	131	Criminal Law	3	0	0	0	3
CJC	212	Ethics & Community Relations	3	0	0	0	3
CJC	221	Investigative Principles	3	2	0	0	4

Total Semester Credit Hours in Program 13

Education–Infant and Toddler Certificate – CCP (C55290P)

			Class	Lab	Clinic	Work Exp.	Credit
EDU	119	Intro to Early Child Education	4	0	0	0	4
EDU	131	Child, Family, & Community	3	0	0	0	3
EDU	144	Child Development I	3	0	0	0	3
EDU	153	Health, Safety & Nutrition	3	0	0	0	3
EDU	234	Infants, Toddlers, & Twos	3	0	0	0	3

Total Semester Credit Hours in Program 16

Education–Preschool Certificate – CCP (C55220PP)

			Class	Lab	Clinic	Work Exp.	Credit
EDU	119	Intro to Early Child Education	4	0	0	0	4
EDU	131	Child, Family, & Community	3	0	0	0	3
EDU	145	Child Development II	3	0	0	0	3
EDU	146	Child Guidance	3	0	0	0	3
EDU	153	Health, Safety and Nutrition	3	0	0	0	3
EDU	184	Early Childhood Intro Practicum	1	3	0	0	2

Total Semester Credit Hours in Program 18

Electronics Engineering Technology Diploma – CCP (D40200P)

			Class	Lab	Clinic	Work Exp.	Credit
ACA	115	Success and Study Skills	0	2	0	0	1
DFT	170	Engineering Graphics	2	2	0	0	3
EGR	125	Appl Software for Tech	1	2	0	0	2
EGR	150	Introduction to Engineering	1	2	0	0	2
ELC	117	Motors and Controls	2	6	0	0	4
ELC	128	Intro to PLC	2	3	0	0	3
ELC	131	Circuit Analysis I	3	3	0	0	4
ELN	131	Analog Electronics	3	3	0	0	4
ELN	133	Digital Electronics	3	3	0	0	4
ENG	111	Writing and Inquiry	3	0	0	0	3
ISC	112	Industrial Safety	2	0	0	0	2
MAT	121	Algebra/Trigonometry I	2	2	0	0	3
MAT	122	Algebra/Trigonometry II	2	2	0	0	3

Total Semester Credit Hours in Program 38

Electronics Engineering Technology Basic Certificate – CCP (C40200P)

			Class	Lab	Clinic	Work Exp.	Credit
EGR	150	Introduction to Engineering	1	2	0	0	2
ELC	128	Intro to PLC	2	3	0	0	3
ELC	131	Circuit Analysis I	3	3	0	0	4
ELN	131	Analog Electronics I	3	3	0	0	4
ELN	133	Digital Electronics	3	3	0	0	4

Total Semester Credit Hours in Program 17

Film and Video Production Technology Certificate – CCP (C30140P)

			Class	Lab	Clinic	Work Exp.	Credit
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 & lighting I	2	3	0	0	3
FVP	116	Sound Operations	2	3	0	0	3
FVP	220	Editing I	2	3	0	0	3

Total Semester Credit Hours in Program 15

Fire Protection Technology Diploma – CCP (D55240P)

			Class	Lab	Clinic	Work Exp.	Credit
ACA	115	Success & Study Skills	0	2	0	0	1
CIS	110	Intro to Computers	3	0	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
FIP	120	Intro to Fire Protection	3	0	0	0	3
FIP	124	Fire Prevention and Public Ed	3	0	0	0	3
FIP	128	Detection and Investigation	3	0	0	0	3
FIP	132	Building Construction	3	0	0	0	3
FIP	146	Fire Protection Systems	3	2	0	0	4
FIP	152	Fire Protection Law	3	0	0	0	3
FIP	220	Fire-Fighting Strategies	3	0	0	0	3
FIP	221	Adv Fire Fighting Strategies	3	0	0	0	3
FIP	228	Local Govt Finance	3	0	0	0	3
FIP	240	Fire Service Supervision	3	0	0	0	3
FIP	276	Managing Fire Services	3	0	0	0	3

Total Semester Credit Hours in Program 41

Fire Protection Technology Certificate – CCP (C55240P)

			Class	Lab	Clinic	Work Exp.	Credit
FIP	120	Intro to Fire Protection	3	0	0	0	3
FIP	124	Fire Prevention and Public Ed	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	Fire Fighting Strategies	3	0	0	0	3
FIP	228	Local Govt Finance	3	0	0	0	3

Total Semester Credit Hours in Program 18

Interpreter Education Certificate – CCP (C55300P)

			Class	Lab	Clinic	Work Exp.	Credit
ASL	111	Elementary ASL I	3	0	0	0	3
ASL	112	Elementary ASL II	3	0	0	0	3
ASL	181	ASL Lab I	0	2	0	0	1
ASL	182	ASL Lab 2	0	2	0	0	1
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
IPP	111	Intro to Interpretation	3	0	0	0	3

Total Semester Credit Hours in Program 18

Mechanical Engineering Technology Diploma – CCP (D40320P)

			Class	Lab	Clinic	Work Exp.	Credit
ACA	115	Success and Study Skills	0	2	0	0	1
DFT	154	Intro to Solid Modeling	2	3	0	0	3
DFT	170	Engineering Graphics	2	2	0	0	3
EGR	125	Appl Software for Tech	1	2	0	0	2
EGR	130	Engineering Cost Control	2	2	0	0	3
EGR	150	Introduction to Engineering	1	2	0	0	2
ELC	128	Intro to PLC	2	3	0	0	3
ELC	131	Circuit Analysis I	3	3	0	0	4
ENG	111	Writing and Inquiry	3	0	0	0	3
ISC	112	Industrial Safety	2	0	0	0	2
MAT	121	Algebra/Trigonometry I	2	2	0	0	3
MAT	122	Algebra/Trigonometry II	2	2	0	0	3
MEC	145	Mfg Materials I	2	3	0	0	3
PHY	131	Physics – Mechanics	3	2	0	0	4

Total Semester Credit Hours in Program 39

Mechanical Engineering Technology Certificate – CCP (C40320P)

			Class	Lab	Clinic	Work Exp.	Credit
EGR	150	Introduction to Engineering	1	2	0	0	2
EGR	250	Statics and Strength of Materials	4	3	0	0	5
DFT	170	Engineering Graphics	2	2	0	0	3
MAT	121	Algebra/Trigonometry I	2	2	0	0	3
PHY	131	Physics-Mechanics	3	2	0	0	4

Total Semester Credit Hours in Program 17

Mechatronics Engineering Technology Diploma – CCP (D40350P)

			Class	Lab	Clinic	Work Exp.	Credit
ACA	115	Success and Study Skills	0	2	0	0	1
ATR	112	Intro to Automation	2	3	0	0	3
DFT	170	Engineering Graphics	2	2	0	0	3
EGR	125	Appl Software for Tech	1	2	0	0	2
EGR	150	Introduction to Engineering	1	2	0	0	2
ELC	117	Motors and Controls	2	6	0	0	4
ELC	128	Intro to PLC	2	3	0	0	3
ELC	131	Circuit Analysis I	3	3	0	0	4
ELC	213	Instrumentation	3	2	0	0	4
ENG	111	Writing and Inquiry	3	0	0	0	3
ISC	112	Industrial Safety	2	0	0	0	2
MAT	121	Algebra/Trigonometry I	2	2	0	0	3
MAT	122	Algebra/Trigonometry II	2	2	0	0	3
PHY	131	Physics – Mechanics	3	2	0	0	4

Total Semester Credit Hours in Program 41

Mechatronics Engineering Technology – Basic Certificate – CCP (C40350BP)

			Class	Lab	Clinic	Work Exp.	Credit
ATR	112	Intro to Automation	2	3	0	0	3
DFT	170	Engineering Graphics	2	2	0	0	3
EGR	125	Appl Software for Tech	1	2	0	0	2
EGR	150	Introduction to Engineering	1	2	0	0	2
ELC	128	Intro to PLC	2	3	0	0	3
ISC	112	Industrial Safety	2	0	0	0	2

Total Semester Credit Hours in Program 15

Mechatronics Engineering Technology - Maintenance Certificate – CCP (C40350MP)

			Class	Lab	Clinic	Work Exp.	Credit
ATR	112	Intro to Automation	2	3	0	0	3
EGR	125	Appl Software for Tech	1	2	0	0	2
ELC	117	Motors and Controls	2	6	0	0	4
ELC	128	Intro to PLC	2	3	0	0	3
ELC	131	Circuit Analysis I	3	3	0	0	4

Total Semester Credit Hours in Program 16

Simulation and Game Development Certificate – CCP (C25450P)

			Class	Lab	Clinic	Work Exp.	Credit
SGD	111	Introduction to SGD	2	3	0	0	3
SGD	112	SGD Design	2	3	0	0	3
SGD	113	SGD Programming	2	3	0	0	3
SGD	114	3D Modeling	2	3	0	0	3
SGD	212	SGD Design II	2	3	0	0	3
WEB	120	Intro to Internet Multimedia	2	2	0	0	3

Total Semester Credit Hours in Program 18

Web Technologies Certificate – CCP (C25290P)

			Class	Lab	Clinic	Work Exp.	Credit
DBA	110	Database Concepts	2	3	0	0	3
WEB	110	Internet/Web Fundamentals	2	2	0	0	3
WEB	111	Intro to Web Graphics	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

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

Welding Technology Diploma – CCP (D50420P)

			Class	Lab	Clinic	Work Exp.	Credit
ACA	115	Success and Study Skills	0	2	0	0	1
ENG	111	Writing and Inquiry	3	0	0	0	3
MAT	110	Math Measurement & Literacy	2	2	0	0	3
WLD	110	Cutting Processes	1	3	0	0	2
WLD	112	Basic Welding Processes	1	3	0	0	2
WLD	115	SMAW (Stick) Plate	2	9	0	0	5
WLD	117	Industrial SMAW	1	4	0	0	3
WLD	121	GMAW (MIG) FCAW/Plate	2	6	0	0	4
WLD	131	GTAW (TIG) Plate	2	6	0	0	4
WLD	141	Symbols and Specifications	2	2	0	0	3
WLD	151	Fabrication I	2	6	0	0	4
WLD	212	Inert Gas Welding	1	3	0	0	2
WLD	262	Inspection and Testing	2	2	0	0	3

Total Semester Credit Hours in Program 39

Welding Technology – Multiple Plate Welding Certificate – CCP (C50420EP)

			Class	Lab	Clinic	Work Exp.	Credit
WLD	110	Cutting Processes	1	3	0	0	2
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 15

Horticulture Technology (A15240)

Associate in Applied Science Degree

Plant Systems Pathway Description: These curricula are 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 identification, pest management, plant science and soil science. Also included are courses in sustainable plant production and management, landscaping, and the operation of horticulture businesses.

Graduates should qualify for employment in a variety of positions associated with nurseries, garden centers, greenhouses, landscape operations, governmental agencies/ parks, golf courses, sports complexes, highway vegetation, turf maintenance companies, and private and public gardens. Graduates should also be prepared to take the North Carolina Pesticide Applicator's Examination and/or the North Carolina Certified Plant Professional Examination.

Horticulture Technology program description: A program that focuses on the general production and management of cultivated plants, shrubs, flowers, foliage, trees, groundcovers, and related plant materials; the management of technical and business operations connected with horticultural services; and the basic scientific principles needed to understand plants and their management and care.

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
HOR	112	Landscape Design I	2	3	0	0	3
HOR	124	Nursery Operations	2	3	0	0	3
	Or						
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
HOR	168	Plant Propagation	2	2	0	0	3
		Subtotal					(16)
Spring Semester							
ENG	111	Writing and Inquiry	3	0	0	0	3
HOR	161	Plant Materials II	2	2	0	0	3
HOR	166	Soils and Fertilizers	2	2	0	0	3
HOR	235	Greenhouse Production	2	2	0	0	3
		Social/Behavioral Science Elective**					3
		Subtotal					(15)
Summer Term							
HOR	152	Horticultural Practices	0	3	0	0	1
HOR	164	Horticulture Pest Mgt	2	2	0	0	3
HOR	265	Advanced Plant Materials	1	2	0	0	2
MAT	110	Math Measurement & Literacy	2	2	0	0	3
		Subtotal					(9)
Fall Semester							
AGR	121	Biological Pest Mgmt	3	0	0	0	3
COM	231	Public Speaking	3	0	0	0	3
	Or						
ENG	114	Prof Research and Reporting	3	0	0	0	3
		Major Course Elective***					9
		Subtotal					(16)
Spring Semester							
WBL	111	Work-Based Learning I	0	0	0	10	1
		Humanities Elective**					3
		Major Course Elective***					9
		Subtotal					(13)

**Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on page 46.

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

AGR	265	Organic Crop Prod: Spring	2	2	0	0	3
AGR	267	Permaculture	2	2	0	0	3
BUS	280	REAL Small Business	4	0	0	0	4
CIS	110	Introduction to Computers	2	2	0	0	3
GCM	220	Golf Course Maint Systems	3	0	0	0	3
HOR	114	Landscape Construction	2	2	0	0	3
HOR	116	Landscape Management I	2	2	0	0	3
HOR	118	Equipment Op & Maint	1	3	0	0	2
HOR	142	Fruit & Vegetable Prod	1	2	0	0	2
HOR	154	Intro to Horticultural Therapy	2	4	0	0	4
HOR	213	Landscape Design II	2	2	0	0	3
HOR	215	Landscape Irrigation	2	2	0	0	3
HOR	225	Nursery Production	2	2	0	0	3
HOR	245	Hort Specialty Crops	2	2	0	0	3
HOR	257	Arboriculture Practices	1	3	0	0	2
HOR	271	Garden Center Mgmt	2	0	0	0	2
TRF	110	Intro Turfgrass Cult & ID	3	2	0	0	4
TRF	260	Adv Turfgrass Mgmt	3	2	0	0	4
VEN	135	Intro to Viticulture	3	2	0	0	4

Total Hours Required in Program 68

Students may earn a more focused Associate of Applied Science degree in Horticulture Technology by selecting the Major Course Electives included in the following pathways:

Ornamental Plant Production Pathway (A15240H)

HOR	118	Equipment Op & Maint	1	3	0	0	2
HOR	142	Fruit & Veg Production	1	2	0	0	2
HOR	225	Nursery Production	2	2	0	0	3
HOR	245	Hort Specialty Crops	2	2	0	0	3
HOR	257	Arboriculture Practices	1	3	0	0	2

Landscape Pathway (A15240L)

HOR	114	Landscape Construction	2	2	0	0	3
HOR	116	Landscape Management I	2	2	0	0	3
HOR	118	Equipment Op & Maint	1	3	0	0	2
HOR	213	Landscape Design II	2	2	0	0	3
HOR	215	Landscape Irrigation	2	2	0	0	3
TRF	110	Intro Turfgrass Cult & ID	3	2	0	0	4

Small Fruits/Specialty Crops Pathway (A15240S)

AGR	265	Organic Crop Prod: Spring	2	2	0	0	3
HOR	118	Equipment Op & Maint	1	3	0	0	2
HOR	142	Fruit & Vegetable Prod	1	2	0	0	2
HOR	225	Nursery Production	2	2	0	0	3
HOR	245	Hort Specialty Crops	2	2	0	0	3
VEN	135	Intro to Viticulture	3	2	0	0	4

Turfgrass Management Pathway (A15240T)

GCM	220	Golf Course Maint Systems	3	0	0	0	3
HOR	118	Equipment Op & Maint	1	3	0	0	2
HOR	215	Landscape Irrigation	2	2	0	0	3
HOR	257	Arboriculture Practices	1	3	0	0	2
TRF	110	Intro Turfgrass Cult & ID	3	2	0	0	4
TRF	260	Adv Turfgrass Mgmt	3	2	0	0	4

Horticulture Technology (D15240)

Diploma

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
HOR	112	Landscape Design I	2	3	0	0	3
HOR	124	Nursery Operations	2	3	0	0	3
	Or						
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
HOR	168	Plant Propagation	2	2	0	0	3
		Subtotal					(16)
Spring Semester							
ENG	111	Writing and Inquiry	3	0	0	0	3
HOR	161	Plant Materials II	2	2	0	0	3
HOR	166	Soils and Fertilizers	2	2	0	0	3
HOR	235	Greenhouse Production	2	2	0	0	3
		Subtotal					(12)
Summer Term							
HOR	152	Horticultural Practices	0	3	0	0	1
HOR	164	Horticulture Pest Mgt	2	2	0	0	3
HOR	265	Advanced Plant Materials	1	2	0	0	2
MAT	110	Math Measurement & Literacy	2	2	0	0	3
		Subtotal					(9)

Total Hours Required in Program 37

Horticulture – Landscape (C15240L)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Required Courses							
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	213	Landscape Design II	2	2	0	0	3
HOR	215	Landscape Irrigation	2	2	0	0	3

Total Semester Credit Hours in Program 15

Horticulture – Turfgrass Management (C15240TM)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Required Courses							
GCM	220	Golf Course Maint Systems	3	0	0	0	3
HOR	118	Equipment Op & Maint	1	3	0	0	2
HOR	215	Landscape Irrigation	2	2	0	0	3
TRF	110	Intro Turfgrass Cult & ID	3	2	0	0	4
TRF	260	Adv Turfgrass Mgmt	3	2	0	0	4

Total Semester Credit Hours in Program 16

Horticulture – Ornamental Plant Production (C15240H)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Required Courses							
AGR	121	Biological Pest Mgmt	3	0	0	0	3
HOR	168	Plant Propagation	2	2	0	0	3
HOR	225	Nursery Production	2	2	0	0	3
HOR	235	Greenhouse Production	2	2	0	0	3
HOR	245	Hort Specialty Crops	2	2	0	0	3
HOR	257	Arboriculture Practices	1	3	0	0	2

Total Semester Credit Hours in Program 17

Horticulture – Small Fruits/Specialty Crops (C15240SF)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Required Courses							
AGR	121	Biological Pest Mgmt	3	0	0	0	3
AGR	265	Organic Crop Prod: Spring	2	2	0	0	3
HOR	142	Fruit & Vegetable Prod	1	2	0	0	2
HOR	225	Nursery Production	2	2	0	0	3
HOR	235	Greenhouse Production	2	2	0	0	3
HOR	245	Hort Specialty Crops	2	2	0	0	3

Total Semester Credit Hours in Program 17

Interpreter Education (A55300)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
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 I	0	2	0	0	1
ASL	182	ASL Lab 2	0	2	0	0	1
ASL	225	Global Deaf Community	3	0	0	0	3
IPP	111	Introduction to Interpretation	3	0	0	0	3
		Subtotal					(15)
Spring Semester							
ASL	211	Intermediate ASL I	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
ENG	111	Writing and Inquiry	3	0	0	0	3
IPP	112	Comparative Cultures	3	0	0	0	3
		Subtotal					(13)
Summer Term							
ASL	212	Intermediate ASL II	3	0	0	0	3
ASL	282	ASL Lab 4	0	2	0	0	1
	Either						
ENG	112	Writing/Research in the Discipl	3	0	0	0	3
	Or						
ENG	114	Prof. Research and Reporting	3	0	0	0	3
IPP	152	ASL/English Translation	3	0	0	0	3
		Humanities Elective**					3
		Subtotal					(13)
Fall Semester							
ASL	221	Advanced ASL I	3	0	0	0	3
ASL	222	Advanced ASL II	3	0	0	0	3
IPP	161	Consecutive Interpreting	2	6	0	0	5
MAT	143	Quantitative Literacy	2	2	0	0	3
		Social/Behavioral Science Elective**					3
		Subtotal					(17)
Spring Semester							
IPP	221	Simultaneous Interpreting I	2	6	0	0	5
IPP	240	Ethical Standards & Practices I	3	0	0	0	3
WBL	111	Work-Based Learning I	0	0	0	10	1
WBL	115	Work-Based Learning Seminar	1	0	0	0	1
		Major Course Elective***					3
		Subtotal					(13)

**Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on page 46.

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

EDU	119	Intro to Early Childhood Edu	4	0	0	0	4
EDU	131	Child, Family and Community	3	0	0	0	3
EDU	144	Child Development I	3	0	0	0	3
EDU	145	Child Development II	3	0	0	0	3
EDU	146	Child Guidance	3	0	0	0	3
IPP	243	Religious Interpreting	2	2	0	0	3
IPP	245	Educational Interpreting Issues	3	0	0	0	3
OST	141	Med Terms I – Med Office	3	0	0	0	3
WBL	121	Work-Based Learning II	0	0	0	10	1
WBL	122	Work-Based Learning II	0	0	0	20	2
WBL	123	Work-Based Learning II	0	0	0	30	3

Total Semester Credit Hours in Program 71

Interpreter Education (D55300)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
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 I	0	2	0	0	1
ASL	182	ASL Lab 2	0	2	0	0	1
ASL	225	Global Deaf Community	3	0	0	0	3
IPP	111	Introduction to Interpretation	3	0	0	0	3
		Subtotal					(15)
Spring Semester							
ASL	211	Intermediate ASL I	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
ENG	111	Writing and Inquiry	3	0	0	0	3
IPP	112	Comparative Cultures	3	0	0	0	3
		Subtotal					(13)
Summer Term							
ASL	212	Intermediate ASL II	3	0	0	0	3
ASL	282	ASL Lab 4	0	2	0	0	1
IPP	152	ASL/English Translation	3	0	0	0	3
MAT	143	Quantitative Literacy	2	2	0	0	3
		Subtotal					(10)

Total Semester Credit Hours in Program 38

Interpreter Education (C55300)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
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 I	0	2	0	0	1
ASL	182	ASL Lab 2	0	2	0	0	1
IPP	111	Introduction to Interpretation	3	0	0	0	3
		Subtotal					(11)
Spring Semester							
ASL	211	Intermediate ASL I	3	0	0	0	3
		Subtotal					(3)
Summer Term							
ASL	212	Intermediate ASL II	3	0	0	0	3
ASL	281	ASL Lab 3	0	2	0	0	1
		Subtotal					(4)

Total Semester Credit Hours in Program 18

Manicuring Instructor (C55380)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
COS	251	Manicure Instructor Concepts	8	0	0	0	8
Spring Semester							
COS	252	Manicure Instructor Practicum	0	15	0	0	5

Total Semester Credit Hours in Program 13

Mechanical Engineering Technology (A40320)

Associate in Applied Science Degree

Engineering and Technology Pathway Description: These curriculums are designed to prepare students through the study and application of principles from mathematics, natural sciences, and technology and applied processes based on these subjects.

Course work includes mathematics, natural sciences, engineering sciences and technology.

Graduates should qualify to obtain occupations such as technical service providers, materials and technologies testing services, process improvement technicians, engineering technicians, industrial technology managers, or research technicians.

Mechanical Engineering Technology program description: A course of study that prepares the students to use basic engineering principles and technical skills to design, develop, test, and troubleshoot projects involving mechanical systems. Includes instruction in principles of mechanics, applications to specific engineering systems, design testing procedures, prototype and operational testing and inspection procedures, manufacturing system-testing procedures, test equipment operation and maintenance, 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 ASQC, SME, and NICET

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
DFT	170	Engineering Graphics	2	2	0	0	3
	Either						
EGR	111	Engineer Comp and Careers	2	2	0	0	3
	Or						
EGR	150	Introduction to Engineering	1	2	0	0	2
ELC	131	Circuit Analysis I	3	3	0	0	4
ENG	111	Writing and Inquiry	3	0	0	0	3
	Either						
MAT	121	Algebra/Trigonometry I	2	2	0	0	3
	Or						
MAT	171	Precalculus Algebra	3	2	0	0	4
		Subtotal					(16-18)
Spring Semester							
DFT	154	Intro Solid Modeling	2	3	0	0	3
EGR	125	Appl Software for Tech	1	2	0	0	2
MEC	145	Mfg. Materials I	2	3	0	0	3
	Either						
MAT	122	Algebra/Trigonometry II	2	2	0	0	3
	Or						
MAT	172	Precalculus Trigonometry	3	2	0	0	4
PHY	131	Physics – Mechanics	3	2	0	0	4
	Or						
PHY	151	College Physics I	3	2	0	0	4
		Subtotal					(15-16)
Summer Term							
ENG	114	Professional Research/Report	3	0	0	0	3
ISC	112	Industrial Safety	2	0	0	0	2
		Social/Behavioral Science Elective**					3
		Subtotal					(8)
Fall Semester							
COM	231	Public Speaking	3	0	0	0	3
ELC	128	Intro to PLC	2	3	0	0	3
EGR	250	Statics and Strength of Materials	4	3	0	0	5
HYD	110	Hydraulics/Pneumatics	2	3	0	0	3
		Major Course Electives***					2-3
		Subtotal					(16-17)
Spring Semester							
EGR	130	Engineering Cost Control	2	2	0	0	3
MEC	260	Fund of Machine Design	2	3	0	0	3
MEC	276	Capstone Design Project	0	3	0	0	1
		Humanities Elective**					3
		Major Course Elective***					2-3
		Subtotal					(12-13)

**Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on page 46.

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

BUS	110	Introduction to Business	3	0	0	0	3
CHM	151	General Chemistry	3	3	0	0	4
DFT	151	CAD I	2	3	0	0	3
ISC	132	Mfg Quality Control	2	3	0	0	3
MAC	121	Intro to CNC	2	0	0	0	2
MAT	152	Statistical Methods I	3	2	0	0	4
MAT	271	Calculus I	3	2	0	0	4
MEC	110	Introduction to CAD/CAM	1	2	0	0	2
MEC	111	Machine Processes I	1	4	0	0	3
MEC	155	Environmental Benign Mfg	2	2	0	0	3
WBL	111	Work-Based Learning I	0	0	0	10	1
WBL	112	Work-Based Learning I	0	0	0	20	2
WBL	113	Work-Based Learning I	0	0	0	30	3
WBL	114	Work-Based Learning I	0	0	0	40	4
WBL	121	Work-Based Learning II	0	0	0	10	1
WBL	122	Work-Based Learning II	0	0	0	20	2
WBL	123	Work-Based Learning II	0	0	0	30	3
WBL	131	Work-Based Learning III	0	0	0	10	1
WBL	132	Work-Based Learning III	0	0	0	20	2
WBL	211	Work-Based Learning IV	0	0	0	10	1
WBL	212	Work-Based Learning IV	0	0	0	20	2
WLD	212	Intert Gas Welding	1	3	0	0	2
WLD	262	Inspection and Testing	2	2	0	0	3

Total Semester Credit Hours in Program 67-72

Mechanical Engineering Technology (A40320PR)

Associate in Applied Science Degree-Pre Engineering Technology

This program focuses on maximizing transferability to a four year Engineering Technology Program. Students planning to transfer to a four year Engineering Technology Program must contact the admissions office at the receiving institution to determine which courses should be completed prior to transfer.

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 Learning Center Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
DFT	170	Engineering Graphics	2	2	0	0	3
EGR	111	Engineer Comp and Careers	2	2	0	0	3
MAT	171	Precalculus Algebra	3	2	0	0	4
CHM	151	General Chemistry I	3	3	0	0	4
		Subtotal					(15)
Spring Semester							
DFT	154	Intro Solid Modeling	2	3	0	0	3
MEC	145	Mfg. Materials I	2	3	0	0	3
MAT	172	Precalculus Trigonometry	3	2	0	0	4
PHY	131	Physics – Mechanics	3	2	0	0	4
	Or						
PHY	151	College Physics I	3	2	0	0	4
		Subtotal					(14)
Summer Term							
ENG	111	Writing and Inquiry	3	0	0	0	3
		Social/Behavioral Science Elective**					3
		Subtotal					(6)
Fall Semester							
ENG	114	Professional Research/Report	3	0	0	0	3
EGR	250	Statics and Strength of Materials	4	3	0	0	5
HYD	110	Hydraulics/Pneumatics	2	3	0	0	3
MAT	271	Calculus I	3	2	0	0	4
		Subtotal					(15)
Spring Semester							
COM	231	Public Speaking	3	0	0	0	3
MEC	260	Fund of Machine Design	2	3	0	0	3
MEC	276	Capstone Design Project	0	3	0	0	1
		Humanities Elective**					3
		Major Course Elective***					4
		Subtotal					(14)

**Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on page 46.

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

MAT	152	Statistical Methods I	3	2	0	0	4
WBL	111	Work-Based Learning I	0	0	0	10	1
WBL	112	Work-Based Learning I	0	0	0	20	2
WBL	113	Work-Based Learning I	0	0	0	30	3
WBL	114	Work-Based Learning I	0	0	0	40	4
WBL	121	Work-Based Learning II	0	0	0	10	1
WBL	122	Work-Based Learning II	0	0	0	20	2
WBL	123	Work-Based Learning II	0	0	0	30	3
WBL	131	Work-Based Learning III	0	0	0	10	1
WBL	132	Work-Based Learning III	0	0	0	20	2
WBL	211	Work-Based Learning IV	0	0	0	10	1
WBL	212	Work-Based Learning IV	0	0	0	20	2

Total Semester Credit Hours in Program 64

Mechanical Engineering Technology (D40320)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
DFT	170	Engineering Graphics	2	2	0	0	3
	Either						
EGR	111	Engineer Comp and Careers	2	2	0	0	3
	Or						
EGR	150	Introduction to Engineering	1	2	0	0	2
ELC	128	Intro to PLC	2	3	0	0	3
ELC	131	Circuit Analysis I	3	3	0	0	4
	Either						
MAT	121	Algebra/Trigonometry I	2	2	0	0	3
	Or						
MAT	171	Precalculus Algebra	3	2	0	0	4
		Subtotal					(16-18)
Spring Semester							
DFT	154	Intro Solid Modeling	2	3	0	0	3
EGR	130	Engineering Cost Control	2	2	0	0	3
MEC	145	Mfg. Materials I	2	3	0	0	3
	Either						
MAT	122	Algebra/Trigonometry II	2	2	0	0	3
	Or						
MAT	172	Precalculus Trigonometry	3	2	0	0	4
	And						
PHY	131	Physics – Mechanics	3	2	0	0	4
	Or						
PHY	151	College Physics I	3	2	0	0	4
		Subtotal					(16-17)
Summer Term							
EGR	125	Appl Software for Tech	1	2	0	0	2
ENG	111	Writing and Inquiry	3	0	0	0	3
ISC	112	Industrial Safety	2	0	0	0	2
		Subtotal					(7)

Total Semester Credit Hours in Program 39-42

Mechanical Engineering Technology – Pre-Engineering (C40320PR)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Required Courses							
ACA	115	Success and Study Skills	0	2	0	0	1
DFT	170	Engineering Graphics	2	2	0	0	3
	Either						
EGR	111	Engineer Comp and Careers	2	2	0	0	3
	Or						
EGR	150	Introduction to Engineering	1	2	0	0	2
ELC	131	Circuit Analysis I	3	3	0	0	4
ENG	111	Writing and Inquiry	3	0	0	0	3
MAT	121	Algebra/Trigonometry I	2	2	0	0	3
	Or						
MAT	171	Precalculus Algebra	3	2	0	0	4

Total Semester Credit Hours in Program 16-18

Students may earn additional certificates in the Engineering Technology Pathway programs. Speak to your faculty advisor for more information.

Mechatronics Engineering Technology (A40350)

Associate in Applied Science Degree

Engineering and Technology Pathway Description: These curriculums are designed to prepare students through the study and application of principles from mathematics, natural sciences, and technology and applied processes based on these subjects.

Course work includes mathematics, natural sciences, engineering sciences and technology.

Graduates should qualify to obtain occupations such as technical service providers, materials and technologies testing services, process improvement technicians, engineering technicians, industrial technology managers, or research technicians.

Mechatronics Engineering Technology program description: A course of study that prepares the students to use basic engineering principles and technical skills in developing and testing automated, servo mechanical, and other electromechanical systems. Includes instruction in prototype testing, manufacturing and operational testing, systems analysis and maintenance procedures. Graduates should be qualified for employment in industrial maintenance and manufacturing including assembly, testing, startup, troubleshooting, repair, process improvement, and control systems, and should qualify to sit for Packaging Machinery Manufacturers Institute (PMMI) mechatronics or similar industry 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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
DFT	170	Engineering Graphics	2	2	0	0	3
	Either						
EGR	111	Engineer Comp and Careers	2	2	0	0	3
	Or						
EGR	150	Introduction to Engineering	1	2	0	0	2
ELC	131	Circuit Analysis I	3	3	0	0	4
ENG	111	Writing and Inquiry	3	0	0	0	3
	Either						
MAT	121	Algebra and Trigonometry I	2	2	0	0	3
	Or						
MAT	171	Pre-calculus Algebra	3	2	0	0	4
		Subtotal					(16-18)
Spring Semester							
ATR	112	Intro to Automation	2	3	0	0	3
EGR	125	Appl Software for Tech	1	2	0	0	2
ELC	117	Motors and Controls	2	6	0	0	4
	Either						
MAT	122	Algebra and Trigonometry II	2	2	0	0	3
	Or						
MAT	172	Pre-calculus Trigonometry	3	2	0	0	4
PHY	131	Physics – Mechanics	3	2	0	0	4
		Subtotal					(16-17)
Summer Term							
ENG	114	Prof Research and Reporting	3	0	0	0	3
ISC	112	Industrial Safety	2	0	0	0	2
		Humanities Elective**					3
		Social/Behavioral Science Elective**					3
		Subtotal					(11)
Fall Semester							
ATR	211	Robot Programming	2	3	0	0	3
EGR	250	Statics and Strength of Materials	4	3	0	0	5
ELC	128	Introduction to PLC	2	3	0	0	3
HYD	110	Hydraulics/Pneumatics I	2	3	0	0	3
		Subtotal					(14)
Spring Semester							
ATR	219	Automation Troubleshooting	1	3	0	0	2
ELC	213	Instrumentation	3	2	0	0	4
MEC	130	Mechanisms	2	2	0	0	3
MEC	276	Capstone Design Project	0	3	0	0	1
		Major Course Elective***					2-4
		Subtotal					(12-14)

**Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on page 46.

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

ELC	228	PLC Applications	2	6	0	0	4
ISC	132	Mfg Quality Control	2	3	0	0	3
MAT	152	Statistical Methods I	3	2	0	0	4
MAT	271	Calculus I	3	2	0	0	4
MNT	160	Industrial Fabrication	1	3	0	0	2
WBL	111	Work-Based Learning I	0	0	0	10	1
WBL	112	Work-Based Learning I	0	0	0	20	2
WBL	113	Work-Based Learning I	0	0	0	30	3
WBL	114	Work-Based Learning I	0	0	0	40	4
WBL	121	Work-Based Learning II	0	0	0	10	1
WBL	122	Work-Based Learning II	0	0	0	20	2
WBL	123	Work-Based Learning II	0	0	0	30	3
WBL	131	Work-Based Learning III	0	0	0	10	1
WBL	132	Work-Based Learning III	0	0	0	20	2
WBL	211	Work-Based Learning IV	0	0	0	10	1
WBL	212	Work-Based Learning IV	0	0	0	20	2

Total Semester Credit Hours in Program 69-74

Mechatronics Engineering Technology (D40350)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
	Either						
EGR	111	Engineer Comp and Careers	2	2	0	0	3
	Or						
EGR	150	Introduction to Engineering	1	2	0	0	2
ELC	128	Introduction to PLC	2	3	0	0	3
ELC	131	Circuit Analysis I	3	3	0	0	4
	Either						
MAT	121	Algebra /Trigonometry I	2	2	0	0	3
	Or						
MAT	171	Pre-calculus Algebra	3	2	0	0	4
		Subtotal					(13-15)
Spring Semester							
ATR	112	Intro to Automation	2	3	0	0	3
ELC	213	Instrumentation	3	2	0	0	4
	Either						
MAT	122	Algebra/Trigonometry II	2	2	0	0	3
	Or						
MAT	172	Pre-calculus Trigonometry	3	2	0	0	4
MEC	130	Mechanisms	2	2	0	0	3
PHY	131	Physics – Mechanics	3	2	0	0	4
		Subtotal					(17-18)
Summer Term							
EGR	125	Appl Software for Tech	1	2	0	0	2
ENG	111	Writing and Inquiry	3	0	0	0	3
ISC	112	Industrial Safety	2	0	0	0	2
		Subtotal					(7)

Total Semester Credit Hours in Program 37-40

Mechatronics Engineering Technology – Basic Technician (C40350BM)

Certificate

Students should take the Mechanical Engineering - Pre-Engineering Certificate prior to the Mechatronics Engineering Technology – Basic 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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Required Courses							
EGR	125	Appl Software for Tech	1	2	0	0	2
ELC	117	Motors and Controls	2	6	0	0	4
ELC	131	Circuit Analysis I	3	3	0	0	4
	Either						
MAT	122	Algebra and Trigonometry II	2	2	0	0	3
	Or						
MAT	172	Pre-calculus Trigonometry	3	2	0	0	4
PHY	131	Physics – Mechanics	3	2	0	0	4

Total Semester Credit Hours in Program 17-18

Mechatronics Engineering Technology – Maintenance Technician (C40350MM)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Required Courses							
ATR	112	Intro to Automation	2	3	0	0	3
ISC	112	Industrial Safety	2	0	0	0	2
ELC	117	Motors and Controls	2	6	0	0	4
	Either						
EGR	111	Engineer Comp and Careers	2	2	0	0	3
	Or						
EGR	150	Introduction to Engineering	1	2	0	0	2
MEC	130	Mechanisms	2	2	0	0	3
MNT	160	Industrial Fabrication	1	3	0	0	2

Total Semester Credit Hours in Program 16-17

Students may earn additional certificates in the Engineering Technology Pathway programs. Speak to your faculty advisor for more information.

Networking Technology (A25340)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
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	3	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
NET	125	Networking Basics	1	4	0	0	3
SEC	110	Security Concepts	2	2	0	0	3
		Subtotal					(16)
Spring Semester							
DBA	110	Database Concepts	2	3	0	0	3
NET	126	Routing Basics	1	4	0	0	3
NOS	110	Operating Systems Concepts	2	3	0	0	3
		Humanities Elective**					3
		Social/Behavioral Elective**					3
		Subtotal					(15)
Summer Term							
ENG	114	Prof. Research and Reporting	3	0	0	0	3
MAT	143	Quantitative Literacy	2	2	0	0	3
		Subtotal					(6)
Fall Semester							
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
NOS	130	Windows Single User	2	2	0	0	3
		Subtotal					(15)
Spring Semester							
NET	226	Routing and Switching II	1	4	0	0	3
NET	240	Network Design	3	0	0	0	3
NOS	220	Linux/UNIX Admin	2	2	0	0	3
WBL	111	Work-Based Learning I	0	0	0	10	1
		Major Course Elective***					3
		Subtotal					(13)

**Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on page 46.

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

BUS	153	Human Resource Management	3	0	0	0	3
BUS	240	Business Ethics	3	0	0	0	3
CSC	134	C++ Programming	2	3	0	0	3
CSC	151	JAVA Programming	2	3	0	0	3
CTS	155	Tech Support Functions	2	2	0	0	3
CTS	217	Computer Train/Support	2	2	0	0	3
NOS	230	Windows Administration I	2	2	0	0	3
WBL	112	Work-Based Learning I	0	0	0	20	2
WBL	121	Work-Based Learning II	0	0	0	10	1
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

Total Semester Credit Hours in Program 65

Networking Technology (D25340)

Diploma 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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
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	3	0	0	3
NET	125	Networking Basics	1	4	0	0	3
WEB	110	Internet/ Web Fundamentals	2	2	0	0	3
		Subtotal					(13)
Spring Semester							
CSC	134	C++ Programming	2	3	0	0	3
DBA	110	Database Concepts	2	3	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
NET	126	Routing Basics	1	4	0	0	3
NOS	110	Operating Systems Concepts	2	3	0	0	3
		Subtotal					(15)
Fall Semester							
MAT	143	Quantitative Literacy	2	2	0	0	3
NOS	130	Windows Single User	2	2	0	0	3
SEC	110	Security Concepts	2	2	0	0	3
		Subtotal					(9)

Total Semester Credit Hours in Program 37

Office Administration (A25370)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
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	Writing and Inquiry	3	0	0	0	3
MAT	143	Quantitative Literacy	2	2	0	0	3
OST	136	Word Processing	2	2	0	0	3
		Subtotal					(13)
Spring Semester							
ACC	120	Prin of Financial Accounting	3	2	0	0	4
CTS	125	Presentation Graphics	2	2	0	0	3
ENG	114	Prof. Research and Reporting	3	0	0	0	3
OST	134	Text Entry & Formatting	2	2	0	0	3
OST	236	Adv Word/Information Proc	2	2	0	0	3
		Subtotal					(16)
Summer Term							
OST	233	Office Publications Design	2	2	0	0	3
OST	284	Emerging Technologies	1	2	0	0	2
		Humanities Elective**					3
		Social/Behavioral Science Elective**					3
		Major Course Elective***					3
		Subtotal					(14)
Fall Semester							
COM	231	Public Speaking	3	0	0	0	3
CTS	130	Spreadsheet	2	2	0	0	3
OST	164	Text Editing Applications	3	0	0	0	3
OST	184	Records Management	2	2	0	0	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
MKT	223	Customer Service	3	0	0	0	3
OST	137	Office Software Applications	2	2	0	0	3
OST	289	Administrative Office Mgt	2	2	0	0	3
WBL	111	Work-Based Learning I	0	0	0	10	1
		Subtotal					(15)

**Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on page 46.

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

ACC	150	Acct Software Application	1	2	0	0	2
BUS	110	Introduction to Business	3	0	0	0	3
BUS	125	Personal Finance	3	0	0	0	3
BUS	137	Principles of Management	3	0	0	0	3
BUS	153	Human Resource Management	3	0	0	0	3
BUS	228	Business Statistics	2	2	0	0	3
BUS	240	Business Ethics	3	0	0	0	3
BUS	280	REAL Small Business	4	0	0	0	4
ECM	210	Introduction to E-Commerce	2	2	0	0	3
MKT	120	Principles of Marketing	3	0	0	0	3
OST	131	Keyboarding	1	2	0	0	2
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	153	Office Finance Solutions	1	2	0	0	2
OST	243	Med Office Simulation	2	2	0	0	3
WBL	113	Work-Based Learning I	0	0	0	30	3
WBL	121	Work-Based Learning II	0	0	0	10	1
WBL	122	Work-Based Learning II	0	0	0	20	2
WBL	123	Work-Based Learning II	0	0	0	30	3
WBL	131	Work-Based Learning III	0	0	0	10	1
WBL	132	Work-Based Learning III	0	0	0	20	2
WEB	110	Internet/Web Fundamentals	2	2	0	0	3
WEB	214	Social Media	2	2	0	0	3

Total Semester Credit Hours in Program 73

Office Administration (D25370)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
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
		Humanities Elective**					3
		Or					
		Social/Behavioral Science Elective**					3
		Subtotal					(16)
Spring Semester							
BUS	270	Professional Development	3	0	0	0	3
OST	134	Text Entry & Formatting	2	2	0	0	3
OST	137	Office Software Applications	2	2	0	0	3
OST	236	Adv Word/Information Proc	2	2	0	0	3
OST	289	Administrative Office Mgt.	2	2	0	0	3
WBL	111	Work-Based Learning I	0	0	0	10	1
		Subtotal					(16)

Summer Term

CTS	125	Presentation Graphics	2	2	0	0	3
CTS	130	Spreadsheet	2	2	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
OST	284	Emerging Technologies	1	2	0	0	2
		Subtotal					(11)

**Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on page 46.

Total Semester Credit Hours in Program 43

Office Administration – Medical Office (D25370M)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
OST	131	Keyboarding	1	2	0	0	2
OST	136	Word Processing	2	2	0	0	3
OST	141	Medical Terms I–Med Office	3	0	0	0	3
OST	164	Text Editing Applications	3	0	0	0	3
OST	184	Records Management	2	2	0	0	3
		Subtotal					(15)
Spring Semester							
BUS	270	Professional Development	3	0	0	0	3
OST	137	Office Software Applications	2	2	0	0	3
OST	148	Med Coding Billing and Ins	3	0	0	0	3
OST	289	Administrative Office Mgt	2	2	0	0	3
WBL	111	Work-Based Learning I	0	0	0	10	1
		Humanities Elective**					3
		Or					
		Social/Behavioral Science Elective**					3
		Subtotal					(16)
Summer Term							
CTS	130	Spreadsheet	2	2	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
OST	149	Medical Legal Issues	3	0	0	0	3
OST	243	Medical Office Simulation	2	2	0	0	3
		Subtotal					(12)

**Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on page 46.

Total Semester Credit Hours in Program 43

Office Administration – Basic Office (C25370)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
CIS	110	Introduction to Computers	2	2	0	0	3
OST	131	Keyboarding	1	2	0	0	2
OST	164	Text Editing Applications	3	0	0	0	3
OST	184	Records Management	2	2	0	0	3
		Subtotal					(11)
Spring Semester							
OST	134	Text Entry & Formatting	2	2	0	0	3
OST	136	Word Processing	2	2	0	0	3
WBL	111	Work-Based Learning I	0	0	0	10	1
		Subtotal					(7)

Total Semester Credit Hours in Program 18

Office Administration – Medical Office (C25370M)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
OST	141	Medical Terms I - Med Office	3	0	0	0	3
OST	153	Office Finance Solutions	1	2	0	0	2
OST	164	Text Editing Applications	3	0	0	0	3
OST	184	Records Management	2	2	0	0	3
		Subtotal					(11)
Spring Semester							
OST	136	Word Processing	2	2	0	0	3
OST	148	Med Coding Billing and Insu	3	0	0	0	3
WBL	111	Work-Based Learning I	0	0	0	10	1
		Subtotal					(7)

Total Semester Credit Hours in Program 18

Office Administration – Basic Office Bookkeeping (C25370B)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
CIS	110	Introduction to Computers	2	2	0	0	3
OST	153	Office Finance Solutions	1	2	0	0	2
OST	164	Text Editing Applications	3	0	0	0	3
OST	184	Records Management	2	2	0	0	3
		Subtotal					(11)
Spring Semester							
OST	134	Text Entry & Formatting	2	2	0	0	3
OST	136	Word Processing	2	2	0	0	3
WBL	111	Work-Based Learning I	0	0	0	10	1
		Subtotal					(7)

Total Semester Credit Hours in Program 18

Office Administration/Virtual Office Assistance (A2537B)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
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 and Applications	3	0	0	0	3
OST	171	Intro to Virtual Office	2	2	0	0	3
		Subtotal					(13)
Spring Semester							
CTS	130	Spreadsheet	2	2	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
MAT	143	Quantitative Literacy	2	2	0	0	3
OST	134	Text Entry and Formatting	2	2	0	0	3
OST	236	Adv Word/Information Proc	2	2	0	0	3
		Subtotal					(15)
Summer Term							
CTS	125	Presentation Graphics	2	2	0	0	3
ECM	210	Introduction to E-Commerce	2	2	0	0	3
ENG	114	Prof Research and Reporting	3	0	0	0	3
OST	233	Office Publications Design	2	2	0	0	3
		Subtotal					(12)
Fall Semester							
OST	153	Office Finance Solutions	1	2	0	0	2
OST	184	Records Management	2	2	0	0	3
		Humanities Elective**					3
		Social/Behavioral Science Elective**					3
		Major Course Elective***					3
		Subtotal					(14)
Spring Semester							
MKT	223	Customer Service	3	0	0	0	3
OST	271	Office Web Technologies	2	2	0	0	3
OST	272	Virtual Office Capstone	1	2	0	0	2
OST	289	Administrative Office Mgt	2	2	0	0	3
WBL	111	Work-Based Learning I	0	0	0	10	1
		Subtotal					(12)

**Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on page 46.

***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	270	Professional Development	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

Total Semester Credit Hours in Program 66

Office Administration/Virtual Office Assistance (D2537B)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
OST	136	Word Processing	2	2	0	0	3
OST	153	Office Finance Solutions	1	2	0	0	2
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					(15)
Spring Semester							
CIS	110	Introduction to Computers	2	2	0	0	3
MKT	223	Customer Service	3	0	0	0	3
OST	289	Administrative Office Mgt	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
WBL	111	Work-Based Learning I	0	0	0	10	1
		Subtotal					(15)

Summer Term

			Class	Lab	Clinic	Work Exp.	Credit
CTS	125	Presentation graphics	2	2	0	0	3
CTS	130	Spreadsheet	2	2	0	0	3
ECM	210	Introduction to E-Commerce	2	2	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
		Humanities Elective**					3
		Or					
		Social/Behavioral Science Elective**					3
		Subtotal					(15)

**Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on page 46.

Total Semester Credit Hours in Program 45

Office Administration/ Virtual Office Assistance (C2537B)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

Fall Semester

			Class	Lab	Clinic	Work Exp.	Credit
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	171	Intro to Virtual Office	2	2	0	0	3
		Subtotal					(12)

Spring Semester

CTS	130	Spreadsheet	2	2	0	0	3
OST	272	Virtual Office Capstone	1	2	0	0	2
WBL	111	Work-Based Learning I	0	0	0	10	1
		Subtotal					(6)

Total Semester Credit Hours in Program 18

Simulation and Game Development (A25450)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
ART	131	Drawing I	0	6	0	0	3
CIS	110	Introduction to Computers	2	2	0	0	3
SGD	111	Introduction to SGD	2	3	0	0	3
SGD	112	SGD Design	2	3	0	0	3
		Major Course Elective***					3
		Subtotal					(16)
Spring Semester							
ART	171	Computer Art	0	6	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
SGD	113	SGD Programming	2	3	0	0	3
SGD	114	3D Modeling	2	3	0	0	3
SGD	212	SGD Design II	2	3	0	0	3
		Subtotal					(15)
Summer Term							
ENG	114	Prof. Research and Reporting	3	0	0	0	3
MAT	143	Quantitative Literacy	2	2	0	0	3
		Humanities Elective*					3
		Subtotal					(9)
Fall Semester							
SGD	117	Art for Games	2	3	0	0	3
SGD	174	SG Level Design	2	3	0	0	3
SGD	213	SGD Programming II	2	3	0	0	3
SGD	214	3D Modeling II	2	3	0	0	3
WEB	120	Intro to Internet Multimedia	2	2	0	0	3
		Subtotal					(15)
Spring Semester							
SGD	162	3D SG Animation	2	3	0	0	3
SGD	289	SGD Project	2	3	0	0	3
WBL	111	Work-Based Learning I	0	0	0	10	1
WEB	287	Web E-Portfolio	1	2	0	0	2
		Social/Behavioral Science Elective**					3
		Subtotal					(12)

** Humanities Electives are to be selected from the courses listed on page 45. ART 114 or ART 115 is strongly recommended.

** Social/Behavioral Science Electives are to be selected from the courses listed on page 45.

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

ART	120	3D Printing for the Artist	2	3	0	0	3
ART	121	Two Dimensional Design	0	6	0	0	3
ART	135	Figure Drawing I	0	6	0	0	3
BUS	110	Introduction to Business	3	0	0	0	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
SGD	165	SG Character Development	2	3	0	0	3
SGD	172	Virtual SG Environments	2	3	0	0	3
SGD	244	3D Modeling III	2	3	0	0	3
TDP	110	Intro to 3D Printing	2	3	0	0	3
TDP	140	Precision 3D Printing	2	3	0	0	3
TDP	289	3D Printing Project	2	3	0	0	3
WBL	112	Work-Based Learning I	0	0	0	20	2
WBL	113	Work-Based Learning I	0	0	0	30	3

Total Semester Credit Hours in Program 67

Simulation and Game Development (D25450)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
ART	131	Drawing I	0	6	0	0	3
CIS	110	Introduction to Computers	2	2	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							
ART	171	Computer Art	0	6	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
SGD	113	SGD Programming	2	3	0	0	3
SGD	114	3D Modeling	2	3	0	0	3
SGD	212	SGD Design II	2	3	0	0	3
		Subtotal					(15)
Summer Term							
ENG	114	Prof. Research and Reporting	3	0	0	0	3
		Subtotal					(3)
Fall Semester							
SGD	117	Art for Games	2	3	0	0	3
WEB	120	Intro to Internet Multimedia	2	2	0	0	3
		Subtotal					(6)

Total Semester Credit Hours in Program 37

Simulation and Game Development - Game Design (C25450)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
SGD	111	Introduction to SGD	2	3	0	0	3
SGD	112	SGD Design	2	3	0	0	3
WEB	120	Intro to Internet Multimedia	2	2	0	0	3
		Subtotal					(9)
Spring Semester							
SGD	113	SGD Programming	2	3	0	0	3
SGD	117	Art for Games	2	3	0	0	3
		Subtotal					(6)
Fall Semester							
SGD	212	SGD Design II	2	3	0	0	3
		Subtotal					(3)

Total Semester Credit Hours in Program 18

Simulation and Game Development – Game Art (C25450A)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ART	131	Drawing I	0	6	0	0	3
SGD	111	Introduction to SGD	2	3	0	0	3
		Subtotal					(6)
Spring Semester							
ART	171	Computer Art I	0	6	0	0	3
SGD	114	3D Modeling I	2	3	0	0	3
		Subtotal					(6)
Fall Semester							
SGD	117	Art for Games	2	3	0	0	3
		Subtotal					(3)

Total Semester Credit Hours in Program 15

Simulation and Game Development – Game Programming (C25450B)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
CIS	110	Intro to Computers	2	2	0	0	3
		Subtotal					(3)
Spring Semester							
CSC	153	C# Programming	2	3	0	0	3
SGD	113	SGD Programming	2	3	0	0	3
		Subtotal					(6)
Fall Semester							
SGD	213	SGD Programming II	2	3	0	0	3
SGD	174	SG Level Design	2	3	0	0	3
		Subtotal					(6)

Total Semester Credit Hours in Program 15

Simulation and Game Development – Modeling (C25450M)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ART	131	Drawing I	0	6	0	0	3
		Subtotal					(3)
Spring Semester							
ART	171	Computer Art I	0	6	0	0	3
SGD	114	3D Modeling I	2	3	0	0	3
		Subtotal					(6)
Fall Semester							
SGD	117	Art for Games	2	3	0	0	3
SGD	214	3D Modeling II	2	3	0	0	3
		Subtotal					(6)

Total Semester Credit Hours in Program 15

Simulation and Game Development – Character Design (C25450C)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ART	131	Drawing I	0	6	0	0	3
		Subtotal					(3)
Spring Semester							
ART	135	Figure Drawing	0	6	0	0	3
ART	171	Computer Art I	0	6	0	0	3
SGD	114	3D Modeling I	2	3	0	0	3
		Subtotal					(9)
Fall Semester							
SGD	165	SG Character Development	2	3	0	0	3
		Subtotal					(3)

Total Semester Credit Hours in Program 15

Simulation and Game Development – Three-Dimensional Printing (C25450T)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
CIS	110	Introduction to Computers	2	2	0	0	3
TDP	110	Intro to 3D Printing	2	3	0	0	3
		Subtotal					(6)
Spring Semester							
ART	120	3D Printing for the Artist	2	3	0	0	3
TDP	140	Precision 3D Printing	2	3	0	0	3
		Subtotal					(6)
Fall Semester							
TDP	289	3D Printing Project	2	3	0	0	3
		Subtotal					(3)

Total Semester Credit Hours in Program 15

Surgical Technology (A45740)

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.

The Surgical Technology Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP), 1361 Park Street, Clearwater, FL 33756; Phone: 727-210-2350; Fax: 727-210-2354; www.caahep.org by the recommendation of the Accreditation Review Council on Education in Surgical Technology and Surgical Assisting (ARC/STSA), 6 West Dry Creek Circle, Suite 110, Littleton, CO 80120; Phone: 303-694-9262; Fax: 303-741-3655; www.arcstsa.org.

Graduates will take the National Certification Examination administered by the National Board of Surgical Technology and Surgical Assisting (NBSTSA) within thirty (30) days of completion. 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 12 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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
BIO	163	Basic Anatomy/Physiology	4	2	0	0	5
ENG	111	Writing and Inquiry	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)
Spring Semester							
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)
Summer Term							
PSY	150	General Psychology	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)
Fall Semester							
CIS	110	Introduction to Computers	2	2	0	0	3
ENG	114	Prof Research and Reporting	3	0	0	0	3
SUR	212*	SUR Clinical Supplement	0	0	12	0	4*
		Social /Behavioral Science Elective**					3
		Humanities Elective**					3
		Subtotal					(12 or 16)
Spring Semester							
BUS	137	Principles of Management	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)

*SUR 212 (SUR Clinical Supplement) is required for students who have completed the Surgical Technology Diploma Program and wish to continue with advanced placement in the Surgical Technology Associate in Applied Science degree program. This course may be waived with documentation of having worked 500 hours or primarily scrubbed 125 surgical cases.

**Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on page 46.

Total Semester Credit Hours in Program ..... 67 or 71

Surgical Technology (D45740)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
BIO	163	Basic Anatomy/Physiology	4	2	0	0	5
ENG	111	Writing and Inquiry	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)
Spring Semester							
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)
Summer Term							
PSY	150	General Psychology	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 (A10100)

The Associate in Arts degree shall be granted for a planned program of study consisting of a minimum of 60 semester hours of credit (SHC) of college transfer courses. Within the degree program, the student will have opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic computer use. The program is divided into a 31-32 SHC Universal General Education Transfer Component (UGETC) and a 28-29 SHC Degree Completion Component. Courses selected should be chosen carefully to match the requirements of the university or college where the student plans to transfer. Other than course sequences governed by pre-requisites, the two components may be completed in any order.

Courses are approved for transfer through the Comprehensive Articulation Agreement (CAA). The CAA enables North Carolina community college graduates of two-year associate in arts programs who are admitted to constituent institutions of The University of North Carolina to transfer with junior status.

Community college graduates must obtain a grade of "C" or better in each course and an overall GPA of at least 2.0 on a 4.0 scale in order to transfer with a junior status. Courses may also transfer through bilateral agreements between institutions. Course substitutions may invalidate the protections afforded under the Comprehensive Articulation Agreement.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor. Prerequisites for International Languages may include FRE 110 or SPA 110.

Universal General Education Transfer Component (UGETC)

			Class	Lab	Clinic	Work Exp.	Credit
English Composition (6 semester hours required)							
ENG	111	Writing and Inquiry	3	0	0	0	3
ENG	112	Writing/Research in the Discipl	3	0	0	0	3
		Subtotal					(6)
Humanities/Fine Arts (9 semester hours required) (Three courses from at least two different discipline areas must be selected. A literature course must be taken either in the Universal General Education Transfer Component, the Degree Completion Component, or as an Elective.)							
Art							
ART	111	Art Appreciation	3	0	0	0	3
ART	114	Art History Survey I	3	0	0	0	3
ART	115	Art History Survey II	3	0	0	0	3
Communications							
COM	231	Public Speaking	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
Music							
MUS	110	Music Appreciation	3	0	0	0	3
Philosophy							
PHI	240	Introduction to Ethics	3	0	0	0	3
		Subtotal					(9)
Social/Behavioral Science (9 semester hours required. Three courses from at least two different areas must be selected. HIS 111 or HIS 112 must be taken either in the Universal General Education Transfer Component or the Degree Completion Component.)							
Economics							
ECO	251	Principles of Microeconomics	3	0	0	0	3
ECO	252	Principles of Macroeconomics	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
Psychology							
PSY	150	General Psychology	3	0	0	0	3
Sociology							
SOC	210	Introduction to Sociology	3	0	0	0	3
		Subtotal					(9)
Natural Sciences (4 semester credit hours required from the following. AST 111 and AST 111A must be taken together.)							
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
CHM	151	General Chemistry I	3	3	0	0	4
		Subtotal					(4)
Mathematics (Select one course from the following.)							
MAT	143	Quantitative Literacy	2	2	0	0	3
MAT	152	Statistical Methods I	3	2	0	0	4
MAT	171	Pre-Calculus Algebra	3	2	0	0	4
		Subtotal					(3-4)

Degree Completion Component

Required Courses
All AA students are required to take the following course. Course should preferably be taken the first semester, but no later than the second semester.

ACA	122	College Transfer Success	0	2	0	0	1
		Subtotal					(1)

General Education Courses

Students must select 13-14 SHC of additional general education courses from the Universal General Education Transfer Component above and/or the following General Education Courses. A minimum of 45 SHC of UGETC and General Education Courses must be taken. These courses should be carefully selected in consultation with advisors at the University where the student plans to transfer. Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution Courses marked with an asterisk (*) have a corresponding lab which must be taken at the same time.

ANT	210	General Anthropology	3	0	0	0	3
ASL	111	Elementary ASL I	3	0	0	0	3
ASL	112	Elementary ASL II	3	0	0	0	3
ASL	211	Intermediate ASL I	3	0	0	0	3
ASL	212	Intermediate ASL II	3	0	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	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	Intro. to Chemistry Lab	0	3	0	0	1

CHM	132	Organic and Biochemistry	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 Prog & Logic	2	3	0	0	3
COM	120	Intro Interpersonal Com	3	0	0	0	3
COM	140	Intro Intercultural Com	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
DRA	211	Theatre History I	3	0	0	0	3
DRA	212	Theatre History II	3	0	0	0	3
ECO	151	Survey of Economics	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	252	Western World Literature	3	0	0	0	3
ENG	262	World Literature II	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	211	Intermediate French I*	3	0	0	0	3
FRE	212	Intermediate French II*	3	0	0	0	3
GEO	111	World Regional Geography	3	0	0	0	3
HUM	110	Technology and Society	3	0	0	0	3
HUM	160	Introduction to Film	3	0	0	0	3
MAT	172	Precalculus Trigonometry	3	2	0	0	4
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
PHI	210	History of Philosophy	3	0	0	0	3
PHI	230	Introduction to Logic	3	0	0	0	3
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
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
REL	211	Intro to Old Testament	3	0	0	0	3
REL	212	Intro to New Testament	3	0	0	0	3
REL	221	Religion in America	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
SPA	111	Elementary Spanish I*	3	0	0	0	3
SPA	112	Elementary Spanish II*	3	0	0	0	3
SPA	211	Intermediate Spanish I*	3	0	0	0	3
SPA	212	Intermediate Spanish II*	3	0	0	0	3
		Subtotal					(13-14)

Electives

Select 14-15 SHC from the above courses and/or the Electives listed below. In choosing elective courses: 2 semester hours are recommended for Health and PE. CIS 110, listed under the General Education Courses above, is also recommended. Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.

ACC	120	Principles of Financial Acc	3	2	0	0	4
ACC	121	Principles of Managerial Acc	3	2	0	0	4
ART	121	Two-Dimensional Design	0	6	0	0	3
ART	122	Three-Dimensional Design	0	6	0	0	3
ART	131	Drawing I	0	6	0	0	3
ART	132	Drawing II	0	6	0	0	3
ART	171	Computer Art I	0	4	0	0	3
ART	231	Printmaking I	0	6	0	0	3
ART	232	Printmaking 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	264	Digital Photography I	1	4	0	0	3
ART	265	Digital Photography II	1	4	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
BIO	163	Basic Anat & Physiology	4	2	0	0	5
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	242	Natural Resource Conservation	3	0	0	0	3
BUS	110	Introduction to Business	3	0	0	0	3
BUS	115	Business Law I	3	0	0	0	3
BUS	228	Business Statistics	2	2	0	0	3
CHM	251	Organic Chemistry I	3	3	0	0	4
CHM	252	Organic Chemistry II	3	3	0	0	4
CJC	111	Intro to Criminal Justice	3	0	0	0	3
CJC	121	Law Enforcement Operations	3	0	0	0	3
CJC	141	Corrections	3	0	0	0	3
COM	160	Small Group Communication	3	0	0	0	3
CSC	134	C++ Programming	2	3	0	0	3
CSC	151	JAVA Programming	2	3	0	0	3
DFT	170	Engineering Graphics	2	2	0	0	3
DRA	120	Voice for Performance	3	0	0	0	3
DRA	124	Readers Theatre	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	141	Stagecraft II	0	6	0	0	3
DRA	145	Stage Make-up	1	2	0	0	2
DRA	170	Play Production I	0	9	0	0	3
DRA	171	Play Production II	0	9	0	0	3
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	260	Directing	0	6	0	0	3
DRA	270	Play Production III	0	9	0	0	3
DRA	271	Play Production IV	0	9	0	0	3
EGR	150	Intro to Engineering	1	2	0	0	2
ENG	125	Creative Writing I	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	181	French Lab 1*	0	2	0	0	1
FRE	182	French Lab 2*	0	2	0	0	1
FRE	281	French Lab 3*	0	2	0	0	1
FRE	282	French Lab 4*	0	2	0	0	1
GIS	111	Introduction to GIS	2	2	0	0	3
HIS	231	Recent American 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
MUS	121	Music Theory I	3	2	0	0	4
MUS	122	Music Theory II	3	2	0	0	4
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	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	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	186	Dancing for Fitness	0	2	0	0	1
PED	217	Pilates I	0	2	0	0	1
PED	218	Pilates II	0	2	0	0	1
PHS	130	Earth Science	3	2	0	0	4
POL	130	State and Local Government	3	0	0	0	3
PSY	231	Forensic Psychology	3	0	0	0	3
PSY	271	Sports Psychology	3	0	0	0	3
SPA	141	Culture and Civilization	3	0	0	0	3
SPA	161	Cultural Immersion	2	3	0	0	3
SPA	181	Spanish Lab 1*	0	2	0	0	1
SPA	182	Spanish Lab 2*	0	2	0	0	1
SPA	221	Spanish Conversation	3	0	0	0	3
SPA	231	Reading and Composition	3	0	0	0	3
SPA	281	Spanish Lab 3*	0	2	0	0	1
SPA	282	Spanish Lab 4*	0	2	0	0	1
		Subtotal					(14-15)

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

Total Semester Credit Hours in Program 60

Transfer Program
Associate in Engineering (A10500) – Pending State Approval

The Associate in Engineering (AE) degree shall be granted for a planned program of study consisting of a minimum of 60 semester hours of credit (SHC) of courses. Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic computer use.

The degree plan includes required general education and prerequisite courses that are acceptable to all state funded Bachelor of Engineering programs. Students who follow the degree progression plan will meet the entrance requirements at all of the North Carolina public Bachelor of Science Engineering programs. Associate in Engineering graduates may then apply to any of these programs without taking additional and sometimes duplicative courses. Admission to Engineering programs is highly competitive and admission is not guaranteed.

To be eligible for the transfer of credits under the AE to the Bachelor of Science in Engineering Articulation Agreement, community college graduates must obtain a grade of "C" or better in each course and an overall GPA of at least 2.0 on a 4.0 scale.

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor. Prerequisites for International Languages may include FRE 110 or SPA 110.

Universal General Education Transfer Component (UGETC)

			Class	Lab	Clinic	Work Exp.	Credit
English Composition (6 semester hours required)							
ENG	111	Writing and Inquiry	3	0	0	0	3
ENG	112	Writing/Research in the Discipl	3	0	0	0	3
		Subtotal					(6)

Humanities/Fine Arts and Communications (6 semester hours required)
Select 1 course from the Humanities category and 1 course from the Fine Arts/Communications category

Humanities (3 Semester hours required)							
ENG	231	American Literature I	3	0	0	0	3
ENG	232	American Literature II	3	0	0	0	3
PHI	240	Introduction to Ethics	3	0	0	0	3
REL	110*	World Religions	3	0	0	0	3

*REL 110 will transfer for equivalency credit to the engineering programs of all five UNC institutions that offer undergraduate engineering programs. It may not transfer with equivalency to other programs.

Fine Arts/Communications (3 Semester hours required)							
COM	231	Public Speaking	3	0	0	0	3
ART	111	Art Appreciation	3	0	0	0	3
ART	114	Art History Survey I	3	0	0	0	3
ART	115	Art History Survey II	3	0	0	0	3
MUS	110	Music Appreciation	3	0	0	0	3
		Subtotal					(6)

Social/Behavioral Science (6 semester hours required. ECO 251 is required. Select a second course)

Required:							
ECO	251	Principles of Microeconomics	3	0	0	0	3
Choose One:							
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
PSY	150	General Psychology	3	0	0	0	3
SOC	210	Introduction to Sociology	3	0	0	0	3
		Subtotal					(6)

Mathematics (12 semester hours required*)							
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					(12)

*Calculus I is the lowest level math course that will be accepted by the engineering programs for transfer as a math credit. Students who are not calculus-ready will need to take additional math courses.

Natural Sciences (12 semester hours required)							
CHM	151	General Chemistry I	3	3	0	0	4
PHY	251	General Physics I	3	2	0	0	4
PHY	252	General Physics II	3	2	0	0	4
		Subtotal					(12)

Degree Completion Requirements (18 semester hours required)

Other Required Courses (3 semester hours required)

ACA	122*	College Transfer Success	0	2	0	0	1
EGR	150	Introduction to Engineering	1	2	0	0	2
		Subtotal					(3)

*Students must complete ACA 122 within the first two semesters of enrollment.

General Education and Pre-major Electives Courses (15 semester hours required)
Select 15 SHC of courses from the following courses classified as pre-major, elective, or general education courses within the Comprehensive Articulation Agreement. (Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.)

BIO	111	General Biology I	3	2	0	0	4
CHM	152	General Chemistry II	3	3	0	0	4
CSC	134	C++ Programming	2	3	0	0	3
CSC	151	JAVA Programming	2	3	0	0	3
DFT	170	Engineering Graphics	2	2	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	0	3
EGR	220	Engineering Statics	3	0	0	0	3
HUM	110	Technology and Society	3	0	0	0	3
PED	110	Fit and Well for Life	1	2	0	0	2
		Subtotal					(15)

Total Semester Credit Hours in Program 60

Transfer Program

Associate in Fine Arts – Art (A10200AR)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
English Composition (6 semester hours required)							
ENG	111	Writing and Inquiry	3	0	0	0	3
ENG	112	Writing/Research in the Discipl	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	252	Western World 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
ASL	111	Elementary ASL I	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
DRA	211	Theatre History I	3	0	0	0	3
DRA	212	Theatre History II	3	0	0	0	3
FRE	111	Elementary French I	3	0	0	0	3
HUM	110	Technology and Society	3	0	0	0	3
HUM	160	Introduction to Film	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	230	Introduction to Logic	3	0	0	0	3
PHI	240	Introduction to Ethics	3	0	0	0	3
REL	110	World Religions	3	0	0	0	3
REL	211	Intro to Old Testament	3	0	0	0	3
REL	212	Intro to New Testament	3	0	0	0	3
REL	221	Religion in America	3	0	0	0	3
SPA	111	Elementary Spanish I	3	0	0	0	3
		Subtotal					(3)
Social/Behavioral Science (9 semester hours required. Select three courses from three different discipline areas. HIS 111 or 112 is required.)							
ANT	210	General Anthropology	3	0	0	0	3
ECO	151	Survey of Economics	3	0	0	0	3
ECO	251	Prin. of Microeconomics	3	0	0	0	3
ECO	252	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
PSY	150	General Psychology	3	0	0	0	3
PSY	237	Social Psychology	3	0	0	0	3
PSY	241	Developmental Psych	3	0	0	0	3
PSY	281	Abnormal 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 (Select one course from the following)							
MAT	143	Quantitative Literacy	2	2	0	0	3
MAT	152	Statistical Methods I	3	2	0	0	4
MAT	171	Pre-Calculus Algebra	3	2	0	0	4
		Subtotal					(3-4)
Sciences (4 semester hours required. CHM 131 and CHM 131A must be taken together.)							
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	0	3	0	0	1
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
	Or						
ACA	122	College Transfer Success	0	2	0	0	1
		Subtotal					(1)
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	Two-Dimensional Design	0	6	0	0	3
ART	122	Three-Dimensional Design	0	6	0	0	3
ART	131	Drawing I	0	6	0	0	3
		Subtotal					(15)
Electives (20 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	214	Portfolio and Resume	0	2	0	0	1
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	264	Digital Photography I	1	4	0	0	3
ART	265	Digital Photography II	1	4	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
FRE	181	French Lab 1	0	2	0	0	1
SPA	181	Spanish Lab 1	0	2	0	0	1
		Subtotal					(20)

Total Semester Credit Hours in Program 65

Transfer Program

Associate in Fine Arts – Drama (A1020C)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
English Composition (6 semester hours required)							
ENG	111	Writing and Inquiry	3	0	0	0	3
ENG	112	Writing/Research in the Discipl	3	0	0	0	3
	Or						
ENG	114	Prof Research and Reporting	3	0	0	0	3
		Subtotal					(6)
History (3 semester hours required)							
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)							
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	252	Western World 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
ART	114	Art History Survey I	3	0	0	0	3
ART	115	Art History Survey II	3	0	0	0	3
ASL	111	Elementary ASL I	3	0	0	0	3
COM	231	Public Speaking	3	0	0	0	3
DRA	111	Theatre Appreciation	3	0	0	0	3
FRE	111	Elementary French I	3	0	0	0	3
HUM	110	Technology and Society	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	230	Introduction to Logic	3	0	0	0	3
PHI	240	Introduction to Ethics	3	0	0	0	3
REL	110	World Religions	3	0	0	0	3
REL	211	Intor to Old Testament	3	0	0	0	3
REL	212	Intro to New Testament	3	0	0	0	3
REL	221	Religion in America	3	0	0	0	3
SPA	111	Elementary Spanish I	3	0	0	0	3
		Subtotal					(3)
Social/Behavioral Science (6 semester hours required. Select two courses from two different discipline areas.)							
ANT	210	General Anthropology	3	0	0	0	3
ECO	151	Survey of Economics	3	0	0	0	3
ECO	251	Prin. of Microeconomics	3	0	0	0	3
ECO	252	Prin. of Macroeconomics	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
PSY	150	General Psychology	3	0	0	0	3
PSY	237	Social Psychology	3	0	0	0	3
PSY	241	Developmental Psych	3	0	0	0	3
PSY	281	Abnormal 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 (Select one course from the following)							
MAT	143	Quantitative Literacy	2	2	0	0	3
MAT	152	Statistical Methods I	3	2	0	0	4
MAT	171	Pre-Calculus Algebra	3	2	0	0	4
		Subtotal					(3-4)
Sciences (4 semester hours required. BIO 140 and 140A must be taken together. CHM 131 and CHM 131A must be taken together.)							
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
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
		Subtotal					(4)
Other Required Hours							
ACA	115	Success and Study Skills	0	2	0	0	1
	Or						
ACA	122	College Transfer Success	0	2	0	0	1
		Subtotal					(1)
Required Drama Courses (20 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
DRA	170	Play Production I	0	9	0	0	3
	Either						
DRA	211	Theatre History I	3	0	0	0	3
	Or						
DRA	212	Theatre History II	3	0	0	0	3
		Subtotal					(20)
Drama Electives (9 semester hours required)							
DRA	112	Literature of the Theatre	3	0	0	0	3
DRA	122	Oral Interpretation	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	171	Play Production II	0	9	0	0	3
DRA	240	Lighting for the Theatre	2	2	0	0	3
DRA	260	Directing	0	6	0	0	3
DRA	270	Play Production III	0	9	0	0	3
DRA	271	Play Production IV	0	9	0	0	3
		Subtotal					(9)

Program Electives (6 semester hours required. Take 6 semester credit hours from courses in the BRCC catalog which satisfy the Comprehensive Articulation Agreement as a general education core requirement or as a pre-major and/or elective course requirement.)

Total Semester Credit Hours in Program 64-65

Transfer Program

Associate in Fine Arts – Music (A10200MU)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
English Composition (6 semester hours required)							
ENG	111	Writing and Inquiry	3	0	0	0	3
ENG	112	Writing/Research in the Discipl	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	252	Western World 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
ART	114	Art History Survey I	3	0	0	0	3
ART	115	Art History Survey II	3	0	0	0	3
ASL	111	Elementary ASL I	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
DRA	211	Theatre History I	3	0	0	0	3
DRA	212	Theatre History II	3	0	0	0	3
FRE	111	Elementary French I	3	0	0	0	3
FRE	181	French Lab 1*	0	2	0	0	1
HUM	110	Technology and Society	3	0	0	0	3
HUM	160	Introduction to Film	3	0	0	0	3
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
REL	110	World Religions	3	0	0	0	3
REL	211	Intro to Old Testament	3	0	0	0	3
REL	212	Intro to New Testament	3	0	0	0	3
REL	221	Religion in America	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
		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
Economics							
ECO	151	Survey of Economics	3	0	0	0	3
ECO	251	Prin. of Microeconomics	3	0	0	0	3
ECO	252	Prin. of Macroeconomics	3	0	0	0	3
Geography							
GEO	111	World Regional 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
Psychology							
PSY	150	General Psychology	3	0	0	0	3
PSY	237	Social Psychology	3	0	0	0	3
PSY	241	Developmental Psych	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)
Mathematics (Select one course from the following)							
MAT	143	Quantitative Literacy	2	2	0	0	3
MAT	152	Statistical Methods I	3	2	0	0	4
MAT	171	Pre-Calculus Algebra	3	2	0	0	4
		Subtotal					(3-4)
Sciences (4 semester hours required)							
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*	0	3	0	0	1
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
		Or					
ACA	122	College Transfer Success	0	2	0	0	1
		Subtotal					(1)
Required Music 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 (5 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	271	Music History I	3	0	0	0	3
MUS	272	Music History II	3	0	0	0	3
		Subtotal					(5)

Total Semester Credit Hours in Program 64-65

Transfer Program

Associate in Science (A10400)

The Associate in Science degree shall be granted for a planned program of study consisting of a minimum of 60 semester hours of credit (SHC) of college transfer courses. Within the degree program, the student will have opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic computer use. The program is divided into a 34 SHC Universal General Education Transfer Component (UGETC) and a 26 SHC Degree Completion Component. Courses selected should be chosen carefully to match the requirements of the university or college where the student plans to transfer. Other than course sequences governed by pre-requisites, the two components may be completed in any order.

Courses are approved for transfer through the Comprehensive Articulation Agreement (CAA). The CAA enables North Carolina community college graduates of two-year associate in science programs who are admitted to constituent institutions of The University of North Carolina to transfer with junior status.

Community college graduates must obtain a grade of "C" or better in each course and an overall GPA of at least 2.0 on a 4.0 scale in order to transfer with a junior status. Courses may also transfer through bilateral agreements between institutions. Course substitutions may invalidate the protections afforded under the Comprehensive Articulation Agreement.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of semester hours listed for graduation. Developmental courses for this program may include Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor. Prerequisites for International Languages may include FRE 110 or SPA 110.

Universal General Education Transfer Component (UGETC)

			Class	Lab	Clinic	Work Exp.	Credit
English Composition (6 semester hours required)							
ENG	111	Writing and Inquiry	3	0	0	0	3
ENG	112	Writing/Research in the Discipl	3	0	0	0	3
		Subtotal					(6)
Humanities/Fine Arts (6 semester hours required) (Two courses from two different discipline areas must be selected. A literature course must be taken either in the Universal General Education Transfer Component, the Degree Completion Component, or as an Elective.)							
Art							
ART	111	Art Appreciation	3	0	0	0	3
ART	114	Art History Survey I	3	0	0	0	3
ART	115	Art History Survey II	3	0	0	0	3
Communications							
COM	231	Public Speaking	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
Music							
MUS	110	Music Appreciation	3	0	0	0	3
Philosophy							
PHI	240	Introduction to Ethics	3	0	0	0	3
		Subtotal					(6)
Social/Behavioral Science (6 semester hours required. Two courses from two different areas must be selected. HIS 111 or HIS 112 must be taken either in the Universal General Education Transfer Component or the Degree Completion Component.)							
Economics							
ECO	251	Principles of Microeconomics	3	0	0	0	3
ECO	252	Principles of Macroeconomics	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
Psychology							
PSY	150	General Psychology	3	0	0	0	3
Sociology							
SOC	210	Introduction to Sociology	3	0	0	0	3
		Subtotal					(6)
Natural Sciences (One course sequence of 8 SHC required from the following.)							
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
		Subtotal					(8)
Mathematics (Select two courses from the following.)							
MAT	171	Pre-Calculus Algebra	3	2	0	0	4
MAT	172	Pre-Calculus Trigonometry	3	2	0	0	4
MAT	271	Calculus I	3	2	0	0	4
		Subtotal					(8)

Degree Completion Component

Required Courses

All AS students are required to take the following course. Course should preferably be taken the first semester, but no later than the second semester.

ACA	122	College Transfer Success	0	2	0	0	1
		Subtotal					(1)

General Education Courses

Students must select 11 SHC of additional general education courses from the Universal General Education Transfer Component above and/or the following General Education Courses. A minimum of 45 SHC of UGETC and General Education Courses must be taken. These courses should be carefully selected in consultation with advisors at the University where the student plans to transfer. Courses marked with an asterisk (*) have a corresponding lab which must be taken at the same time.

ANT	210	General Anthropology	3	0	0	0	3
ASL	111	Elementary ASL I	3	0	0	0	3
ASL	112	Elementary ASL II	3	0	0	0	3
ASL	211	Intermediate ASL I	3	0	0	0	3
ASL	212	Intermediate ASL II	3	0	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	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
CIS	110	Introduction to Computers	2	2	0	0	3
CIS	115	Intro to Prog & Logic	2	3	0	0	3
COM	120	Intro Interpersonal Com	3	0	0	0	3
COM	140	Intro Intercultural Com	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
DRA	211	Theatre History I	3	0	0	0	3
DRA	212	Theatre History II	3	0	0	0	3
ECO	151	Survey of Economics	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	252	Western World Literature	3	0	0	0	3
ENG	262	World Literature II	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	211	Intermediate French I*	3	0	0	0	3
FRE	212	Intermediate French II*	3	0	0	0	3
GEO	111	World Regional Geography	3	0	0	0	3
HUM	110	Technology and Society	3	0	0	0	3
HUM	160	Introduction to Film	3	0	0	0	3
MAT	152	Statistical Methods I	3	2	0	0	4
MAT	272	Calculus II	3	2	0	0	4
MAT	273	Calculus III	3	2	0	0	4
PHI	210	History of Philosophy	3	0	0	0	3
PHI	230	Introduction to Logic	3	0	0	0	3
PHY	251	General Physics I	3	3	0	0	4
PHY	252	General Physics II	3	3	0	0	4
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
REL	211	Intro to Old Testament	3	0	0	0	3
REL	212	Intro to New Testament	3	0	0	0	3
REL	221	Religion in America	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
SPA	111	Elementary Spanish I*	3	0	0	0	3
SPA	112	Elementary Spanish II*	3	0	0	0	3
SPA	211	Intermediate Spanish I*	3	0	0	0	3
SPA	212	Intermediate Spanish II*	3	0	0	0	3
		Subtotal					(11)

Electives

Select 14 SHC from the above courses and/or the Electives listed below. In choosing elective courses: 2 semester hours are recommended for Health and PE. CIS 110, listed under the General Education Courses above, is also recommended. Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution

ACC	120	Principles of Financial Acc	3	2	0	0	4
ACC	121	Principles of Managerial Acc	3	2	0	0	4
ART	121	Two-Dimensional Design	0	6	0	0	3
ART	122	Three-Dimensional Design	0	6	0	0	3
ART	131	Drawing I	0	6	0	0	3
ART	132	Drawing II	0	6	0	0	3
ART	171	Computer Art I	0	6	0	0	3
ART	231	Printmaking I	0	6	0	0	3
ART	232	Printmaking 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	264	Digital Photography I	1	4	0	0	3
ART	265	Digital Photography II	1	4	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
BIO	145	Ecology	3	3	0	0	4
BIO	163	Basic Anat & Physiology	4	2	0	0	5
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	242	Natural Resource Conservation	3	0	0	0	3
BUS	110	Introduction to Business	3	0	0	0	3
BUS	115	Business Law I	3	0	0	0	3
BUS	137	Principles of Management	3	0	0	0	3
BUS	228	Business Statistics	2	2	0	0	3
CHM	251	Organic Chemistry I	3	3	0	0	4
CHM	252	Organic Chemistry II	3	3	0	0	4
CJC	111	Intro to Criminal Justice	3	0	0	0	3
CJC	121	Law Enforcement Operations	3	0	0	0	3
CJC	141	Corrections	3	0	0	0	3
COM	160	Small Group Communication	3	0	0	0	3
CSC	134	C++ Programming	2	3	0	0	3
CSC	151	JAVA Programming	2	3	0	0	3
DFT	170	Engineering Graphics	2	2	0	0	3
DRA	120	Voice for Performance	3	0	0	0	3
DRA	124	Readers Theatre	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	141	Stagecraft II	0	6	0	0	3
DRA	145	Stage Make-up	1	2	0	0	2
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
EGR	150	Intro to Engineering	1	2	0	0	2
ENG	125	Creative Writing I	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	181	French Lab 1*	0	2	0	0	1
FRE	182	French Lab 2*	0	2	0	0	1
FRE	281	French Lab 3*	0	2	0	0	1
FRE	282	French Lab 4*	0	2	0	0	1
HIS	231	Recent American 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
MUS	121	Music Theory I	3	2	0	0	4
MUS	122	Music Theory II	3	2	0	0	4
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	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	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	186	Dancing for Fitness	0	2	0	0	1
PED	217	Pilates I	0	2	0	0	1
PED	218	Pilates II	0	2	0	0	1
PHS	130	Earth Science	3	2	0	0	4
POL	130	State and Local Government	3	0	0	0	3
PSY	231	Forensic Psychology	3	0	0	0	3
PSY	271	Sports Psychology	3	0	0	0	3
SPA	141	Culture and Civilization	3	0	0	0	3
SPA	161	Cultural Immersion	2	3	0	0	3
SPA	181	Spanish Lab 1*	0	2	0	0	1
SPA	182	Spanish Lab 2*	0	2	0	0	1
SPA	221	Spanish Conversation	3	0	0	0	3
SPA	231	Reading and Composition	3	0	0	0	3
SPA	281	Spanish Lab 3*	0	2	0	0	1
SPA	282	Spanish Lab 4*	0	2	0	0	1
		Subtotal					(14)

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

Total Semester Credit Hours in Program 60

Articulated Transfer Program – Accounting (A25100WC)

Pathway to Western Carolina University's Accounting Program

This program is an articulated program with Western Carolina University. Students who plan to attend the accounting program at Western Carolina University should be enrolled in the Accounting Associates Degree program at Blue Ridge Community College (see page 45). Students must complete each course within the Accounting Degree with a grade of "C" or better for the course to transfer.

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
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	152	Statistical Methods I	3	2	0	0	4
		Subtotal					(15)
Spring Semester							
ACC	122	Prin of Financial Acct II	3	0	0	0	3
ACC	140	Payroll Accounting	1	2	0	0	2
	Either						
BUS	280	REAL Small Business	4	0	0	0	4
	Or						
		Major Course Elective***					3
ECO	251	Principles of Microeconomics	3	0	0	0	3
ENG	111	Writing & Inquiry	3	0	0	0	3
		Subtotal					(14-15)
Summer Term							
CTS	130	Spreadsheet	2	2	0	0	3
ENG	114	Prof. Research and Reporting	3	0	0	0	3
		Humanities Elective**					3
		Subtotal					(9)
Fall Semester							
ACC	121	Prin of Managerial Accounting	3	2	0	0	4
ACC	129	Individual 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
MKT	120	Principles of Marketing	3	0	0	0	3
		Subtotal					(17)
Spring Semester							
ACC	150	Accounting Software Applications	1	2	0	0	2
ACC	227	Practices in Accounting	3	0	0	0	3
BUS	225	Business Finance	2	2	0	0	3
WBL	111	Work-Based Learning I	0	0	0	10	1
ECO	252	Principles of Macroeconomics	3	0	0	0	3
		Subtotal					(12)

**Humanities Elective must satisfy WCU's P3, P4, P5, or P6 requirement. These can be found at wcu.edu/24847.asp

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

BAF	110	Principles of Banking	3	0	0	0	3
BUS	116	Business Law II	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
DBA	110	Database Concepts	2	3	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- 68

Articulated Transfer Program – Criminal Justice (A55180MH)

Pathway to Mars Hill Bachelor of Science
Criminal Justice Program

This articulation agreement between Blue Ridge Community College (BRCC) Criminal Justice Technology Program and Criminal Justice and Mars Hill University (MHU) provides for transfer from the Criminal Justice program at BRCC to the B.S. in Criminal Justice at MHU. As per the guidelines established by the Independent Comprehensive Articulation Agreement (ICAA) between signatory institutions of the North Carolina Independent Colleges and Universities (NCICU), if students at BRCC complete the established 44-hour general education core or graduate with an AA or AS degree, and have a GPA of at least 2.00 on a 4.00 scale, they will transfer into MHU having met all general education requirements. Students not completing the general education core at BRCC must complete those requirements at MHU as outlined in the 2013 fall catalog. If 28 or more hours are transferred to MHU the first semester, First Year Seminar I is not required at MHU. Students must take a minimum of 60 hours at a senior college and a minimum of 32 at Mars Hill.

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester-YEAR 1							
ACA	115	Success & Study Skills	0	2	0	0	1
CIS	110	Introduction to Computers	2	2	0	0	3
CJC	111	Introduction to Criminal Justice	3	0	0	0	3
CJC	231	Constitutional Law	3	0	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
		Subtotal					(13)
Spring Semester-YEAR 1							
CJC	112	Criminology	3	0	0	0	3
CJC	131	Criminal Law	3	0	0	0	3
ENG	112	Writing/Research in the Discipl	3	0	0	0	3
	Or						
ENG	114	Prof Research & Reporting					
MAT	143	Quantitative Literacy	3	0	0	0	3
		Subtotal					(12)
Summer Term-YEAR 1							
PSY	150	General Psychology	3	0	0	0	3
		Humanities Elective (see below*)					3
		Social Behavior Science (see below*)					3
		Subtotal					(9)
Fall Semester-YEAR 2							
CJC	113	Juvenile Justice	3	0	0	0	3
CJC	132	Court Procedure & Evidence	3	0	0	0	3
CJC	221	Investigative Principles	3	2	0	0	4
GEO	111	World Regional Geography	3	0	0	0	3
		Humanities Elective (see below*)	3	0	0	0	3
		Subtotal					(16)
Spring Semester-YEAR 2							
CJC	121	Law Enforcement Operations	3	0	0	0	3
CJC	141	Corrections	3	0	0	0	3
CJC	212	Ethics& Comm. Relations	3	0	0	0	3
		Science (see below*)	3	0	0	0	3
		Science Lab (see below*)	0	3	0	0	1
		Subtotal					(15 or 16)

Total Semester Credit Hours in Program 65-66

*Humanities Electives: choose from ART 111, ASL-111, DRA 111, SPA 111/SPA 181

*Social Behavior Science Electives: choose from HIS 111, 112, 131, 132

*Science: choose from BIO 111 or BIO 140/140a

Articulated Transfer Program – Dental Hygienist (A10300D)

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 2.8 cumulative technical 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 should consult Greenville Technical College for the latest admission requirements.

Students must have a unit of high school 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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
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
CHM	131	Introduction to Chemistry	3	0	0	0	3
	And						
CHM	131A	Introduction to Chemistry Lab*	0	3	0	0	1
	Or						
CHM	151	General Chemistry I	3	3	0	0	4
CHM	132	Organic and Biochemistry	3	3	0	0	4
COM	231	Public Speaking	3	0	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
MAT	152	Statistical Methods I	3	2	0	0	4
PSY	150	General Psychology	3	0	0	0	3
SOC	210	Intro to Sociology	3	0	0	0	3
		Humanities Elective**					3

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

(Head and Neck Anatomy course should be taken at Greenville Technical College)

**Any college transferable humanities course will satisfy this requirement. Ethics, Religion, or foreign language is suggested.

Total Semester Credit Hours to be taken at BRCC.....36

Articulated Transfer Program – School-Age Education (Arts Track)

Articulation agreement with Mars Hill University
Teacher Education Programs

This program is an articulated program with Mars Hill University. Students must complete each course within the program with a grade of "C" or better for the course to transfer. Students who graduate from the program must complete an electronic portfolio in TaskStream www.taskstream.com to show competence in the National Association for the Education of Young Children (NAEYC) standards. Students transferring from BRCC must notify Dr. Susan Stigall at sstigall@mhu.edu for TaskStream training, in order to complete their Teacher Education Portfolio. Students must earn acceptable scores on PRAXIS I before enrolling in Mars Hill Teacher Education Programs.

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 and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
	Or						
ACA	122	College Transfer Success	0	2	0	0	1
EDU	144	Child Development I	3	0	0	0	3
EDU	163	Classroom Mgt and Instruct	3	0	0	0	3
EDU	173	Becoming a Prof'l in ECE	3	0	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
		Foreign Language (either ASL, FRE, SPA)					3
		Subtotal					(16)
Spring Semester							
ENG	112	Writing/Research in the Discipl	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
PSY	150	General Psychology	3	0	0	0	3
		Foreign Language (either ASL, FRE, SPA)					3
		Subtotal					(18)
Summer Term							
MAT	143	Quantitative Literacy	2	2	0	0	3
		Select one from:					
		ART 111, PHI 240, MUS 110					3
		Subtotal					(6)
Fall Semester							
EDU	216	Foundations of Education	4	0	0	0	4
EDU	221	Children with Exceptionalities	3	0	0	0	3
CIS	110	Introduction to Computers	2	2	0	0	3
		Science Elective**					4
		Select one from:					
		HIS 111, HIS 112					3
		Subtotal					(17)
Spring Semester							
EDU	271	Educational Technology	3	0	0	0	3
EDU	285	Internship Exp-School-Age	1	9	0	0	4
EDU	289	Adv Issues/School Age	2	0	0	0	2
ENG	241	British Literature I	3	0	0	0	3
		Social/Behavioral Science Elective**					3
		Subtotal					(15)

**** Choose from the courses below**

Social/Behavior Sciences Note: HIS 111 or HIS 112 is required.

GEO	111	World Regional Geography	3	0	0	0	3
		(Middle Grades Social Studies concentration)					
HIS	111	World Civilizations I	3	0	0	0	3
		(Middle Grades Social Studies concentration)					
HIS	112	World Civilizations II	3	0	0	0	3
		(Middle Grades Social Studies concentration)					
HIS	131	American History I	3	0	0	0	3
		(Middle Grades Social Studies concentration)					
HIS	132	American History II	3	0	0	0	3
		(Middle Grades Social Studies concentration)					
POL	120	American Government	3	0	0	0	3
		(Middle Grades Social Studies concentration)					
SOC	210	Introduction to Sociology	3	0	0	0	3
		(Middle Grades Social Studies concentration)					

Natural/ Physical Science

Select one course, 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
BIO	140	Environmental Biology	3	0	0	0	4
		(Middle Grades Science concentration)					
BIO	140A	Environmental Biology Lab*	0	3	0	0	4
		(Middle Grades Science concentration)					
CHM	151	General Chemistry I	3	3	0	0	4
		(Middle Grades Science concentration)					
CHM	152	General Chemistry II	3	3	0	0	4
PHY	151	College Physics I	3	2	0	0	4
		(Middle Grades Science concentration)					
PHY	152	College Physics II	3	2	0	0	4

Bridge Course for Elementary Education, Special Education, and Integrated Education Concentration

EDU	151	Creative Activities	3	0	0	0	3

Bridge Courses for Middle Grades Concentration

HIS	236	North Carolina History	3	0	0	0	3
MAT	152	Statistical Methods	3	2	0	0	4
		(Math concentration)					
MAT	271	Calculus I	3	2	0	0	4
POL	130	State and Local Government	3	0	0	0	3
		(Social Studies concentration)					

Bridge Courses for ESL Concentration

One more semester of the same Foreign Language-Choose from:

ASL 111/181
ASL 112/182
ASL 211/281
FRE 111/181
FRE 112/182
SPA 111/181
SPA 112/182
SPA 211
SPA 212

Articulated Transfer Program – School-Age Education (Science track)

Articulation agreement with Mars Hill College Teacher Education Programs:

This program is an articulated program with Mars Hill University. Students must complete each course within the program with a grade of "C" or better for the course to transfer. Students who graduate from the program must complete an electronic portfolio in TaskStream www.taskstream.com to show competence in the National Association for the Education of Young Children (NAEYC) standards. Students transferring from BRCC must notify Dr. Susan Stigall at sstigall@mhu.edu for TaskStream training, in order to complete their Teacher Education Portfolio. Students must earn acceptable scores on PRAXIS I before enrolling in Mars Hill Teacher Education Programs.

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 and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
	Or						
ACA	122	College Transfer Success	0	2	0	0	1
EDU	144	Child Development I	3	0	0	0	3
EDU	173	Becoming a Prof'l in ECE	3	0	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
		Foreign Language (either ASL, FRE, SPA)					3
		Math Elective**					3
		Subtotal					(17)
Spring Semester							
ENG	112	Writing/Research in the Discipl	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
		Foreign Language (either ASL, FRE, SPA)					3
		Subtotal					(15)
Summer Term							
		Math Elective**					3-4
		Select one from:					
		ART 111, DRA 111, HUM 211, MUS 110					3
		Social/Behavioral Science Elective**					3
		Subtotal					(9-10)
Fall Semester							
EDU	163	Classroom Mgt and Instruct	3	0	0	0	3
EDU	216	Foundations of Education	4	0	0	0	4
EDU	221	Child with Exceptionalities	3	0	0	0	3
		Natural/Physical Science Elective**					4
		Subtotal					(14)
Spring Semester							
EDU	285	Internship Exp-School-Age	1	9	0	0	4
EDU	289	Adv Issues/School Age	2	0	0	0	2
		Social/Behavioral Science Elective**					3
		Science Elective**					4
		Subtotal					(13)

** Choose from the courses below

Social/Behavior Sciences Note: HIS 111 or HIS 112 is required

GEO	111	World Regional Geography	3	0	0	0	3
		(Middle Grades Social Studies concentration)					
HIS	111	World Civilizations I	3	0	0	0	3
		(Middle Grades Social Studies concentration)					
HIS	112	World Civilizations II	3	0	0	0	3
		(Middle Grades Social Studies concentration)					
HIS	131	American History I	3	0	0	0	3
		(Middle Grades Social Studies concentration)					
HIS	132	American History II	3	0	0	0	3
		(Middle Grades Social Studies concentration)					
POL	120	American Government	3	0	0	0	3
SOC	210	Introduction to Sociology	3	0	0	0	3
		(Middle Grades Social Studies concentration)					

Math

MAT	143	Quantitative Literacy	2	2	0	0	3
		(Middle Grades Math concentration)					
MAT	152	Statistical Methods I	3	2	0	0	4
		(Middle Grades Math concentration)					
MAT	171	Precalculus Algebra	3	2	0	0	4
MAT	172	Precalculus Trigonometry	3	2	0	0	4
MAT	271	Calculus I	3	2	0	0	4
		(Middle Grades Math concentration)					

Natural/ Physical Science

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
BIO	140	Environmental Biology	3	0	0	0	4
BIO	140A	Environmental Biology Lab*	0	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

Bridge Course for Elementary Education, Special Education, and Integrated Education Concentration

EDU	151	Creative Activities	3	0	0	0	3

Bridge Courses for Middle Grades Concentration

HIS	236	North Carolina History	3	0	0	0	3
POL	130	State and Local Government	3	0	0	0	

3 (Social Studies concentration)

PSY	150	General Psychology	3	0	0	0	3

Bridge Courses for ESL Concentration

One more semester of the same Foreign Language-Choose from:

ASL 111/181
ASL 112/182
ASL 211/281
FRE 111/181
FRE 112/182
SPA 111/181
SPA 112/182
SPA 211
SPA 212

Articulated Transfer Program – Fermentation Science (A10400AFS)

Associate in Science Pathway to Appalachian State University Fermentation Science

Appalachian State University (ASU) and Blue Ridge Community College (BRCC) have agreed to partner in an effort to outline a specific pathway for students to obtain an Associate in Science Degree that also meets the first two years of coursework requirements for the BS degree in Fermentation Science from Appalachian State University. Students must complete the Associate in Science degree from BRCC, apply to graduate, and have the Associate in Science degree posted on their official transcript. ASU will guarantee space availability for two BRCC students until March 1st prior to Fall Semester enrollment. After that time, spaces will be released to the general student population. The Dean of Arts and Sciences at BRCC will make student recommendations to the Director of the Office of Transfer Articulation and the Program Coordinator of Fermentation Science. BRCC students must apply for admission and be admitted to Appalachian State University to articulate appropriate course credit. Students are recommended to have a complete application for admission to the university by December 1st prior to the start of the intended fall term. Upon acceptance to ASU, the recommended BRCC students can complete a major declaration for the Fermentation Sciences program. The ASU Fermentation Science course sequencing begins Fall Semester of each academic year.

The courses listed are required in order to be considered for one of the two BRCC positions. The courses listed will satisfy Blue Ridge Community College requirements for the Associate in Science degree. Other courses may be used to complete the Associate in Science degree but may not meet the requirements for application to the Fermentation Science program at ASU.

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

For more detailed information about the Fermentation Science pathway, contact the Dean for Arts and Sciences, the College Transfer Coordinator in the Student Services Department, or on the Web at northcarolina.edu/aa/articulation/index.htm.

			Class	Lab	Clinic	Work Exp.	Credit
Required Courses							
ACA	122	College Transfer Success	0	2	0	0	1
ACC	120	Prin. of Financial Acct.	3	2	0	0	4
BIO	111	General Biology I	3	3	0	0	4
BIO	112	General Biology II	3	3	0	0	4
BUS	110	Introduction to Business	3	0	0	0	3
COM	231	Public Speaking	3	0	0	0	3
CHM	151	General Chemistry I	3	3	0	0	4
CHM	152	General Chemistry II	3	3	0	0	4
ECO	251	Principles of Microeconomics	3	0	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
ENG	112	Writing/Research in the Discipl	3	0	0	0	3
HIS	112	World Civilizations II	3	0	0	0	3
MAT	152	Statistical Methods I	3	2	0	0	4
MAT	171	Pre-Calculus Algebra	3	2	0	0	4
MAT	172	Pre-Calculus Trigonometry	3	2	0	0	4
MAT	271	Calculus I	3	2	0	0	4
		Literature*					3
		Additional Electives					3

* Literature options – ENG 231, 232, 233, 241, 242, 252, 262

Total Semester Credit Hours in Program 61

Articulated Transfer Program – Nursing (Regionally Increasing Baccalaureate Nurses (RIBN) Program)

Cooperative Program with
Western Carolina University
Associate in Applied Science Degree (BRCC) – Bachelor of Science in Nursing Degree (WCU)

The RIBN curriculum comprises four years in nursing studies. Students graduate with both an associate in Applied Science Degree in Nursing from Blue Ridge Community College and a bachelor's degree in Nursing from Western Carolina University. Students enroll in both WCU and BRCC for the first three years of the program, and at WCU for the final year. Students are eligible to apply to take the National Council Examination (NCLEX-RN) after three years at BRCC.

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

Special admission procedures for the RIBN program are outlined on page 10. Contact Student Services on either campus for additional information.

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester – Year 1							
ACA	115	Success and Study Skills	0	2	0	0	1
BIO	165	Anatomy and Physiology I	3	3	0	0	4
CHM	151	General Chemistry I	3	3	0	0	4
MAT	171	Precalculus Algebra	3	2	0	0	4
		Liberal Arts (WCU)					3
		Subtotal					(16)
Spring Semester – Year 1							
BIO	166	Anatomy and Physiology II	3	3	0	0	4
CHM	132	Organic and Biochemistry	3	3	0	0	4
CIS	110	Introduction to Computers	2	2	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
		Liberal Arts (WCU)					3
		Subtotal					(17)
Fall Semester – Year 2							
NUR	111	Intro to Health Concepts	4	6	6	0	8
PED	110	Fit and Well for Life	1	2	0	0	2
PSY	241	Developmental Psychology	3	0	0	0	3
		Liberal Arts (WCU)					3
		Subtotal					(16)
Spring Semester – Year 2							
BIO	175	General Microbiology	2	2	0	0	3
NUR	112	Health Illness Concepts	3	0	6	0	5
NUR	211	Health Care Concepts	3	0	6	0	5
		Liberal Arts (WCU)					3
		Subtotal					(16)
Summer Term – Year 2							
NSG	346	(WCU)					3
NUR	114	Holistic Health Concepts	3	0	6	0	5
		Subtotal					(8)
Fall Semester – Year 3							
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
		Liberal Arts (WCU)					3
		Subtotal					(16)
Spring Semester – Year 3							
COM	231	Public Speaking	3	0	0	0	3
NUR	213	Complex Health Concepts	4	3	15	0	10
		Liberal Arts (WCU)					3
		Subtotal					(16)

Remainder of credit hours will be completed at Western Carolina University (Online and at Biltmore Park campus)

Total Semester Credit Hours in Program 129

Articulated Transfer Program – Occupational Therapy Assistant (A10300O)

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 technical 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 should consult Greenville Technical College for the latest admission requirements.

Students must have a unit of high school 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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
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	Writing and Inquiry	3	0	0	0	3
MAT	152	Statistical Methods I	3	2	0	0	4
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
	Or						
PSY	281	Abnormal Psychology	3	0	0	0	3
		Humanities Elective**					3

**Any college transferable humanities course will satisfy this requirement.

OTA 200 must be completed at Greenville Tech or online before beginning the OTA program.

Total Semester Credit Hours to be taken at BRCC.....34

Articulated Transfer Program – Pharmacy (A10400WP)

Associate in Science Pathway to Wingate University School of Pharmacy

The Wingate University School of Pharmacy and Blue Ridge Community College have agreed to partner in an effort to outline a specific pathway for students to obtain an Associate in Science Degree that also meets the prerequisite coursework requirements for application to the Wingate University School of Pharmacy. Completion of the Associate in Science degree or the listed courses does not guarantee admission to Wingate University School of Pharmacy. Acceptance into Wingate University School of Pharmacy is competitive based grades from individual courses listed below, the pharmacy school assessment test (PCAT) scores, and a personal interview.

The Wingate School of Pharmacy recognizes online courses as long as labs are completed in a seated classroom section. COM 231 may not be taken online.

The courses listed are required in order to apply for admission to Wingate University School of Pharmacy. The courses listed will satisfy Blue Ridge Community College requirements for the Associate in Science degree. Other courses may be used to complete the Associate in Science degree but may not meet the requirements for application to Wingate University School of Pharmacy. All pharmacy prerequisites must be completed by the end of Spring Semester of the year in which pharmacy school enrollment is requested.

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

For more detailed information about the Pharmacy pathway, contact the Dean for Arts and Sciences, the College Transfer Coordinator in the Student Services Department, or on the Web at northcarolina.edu/aa/articulation/index.htm

			Class	Lab	Clinic	Work Exp.	Credit
Required Courses							
ACA	122	College Transfer success	1	0	0	0	1
BIO	111	General Biology I	3	3	0	0	4
BIO	163	Basic Anat and Phys	4	2	0	0	5
	Or						
BIO	165	Anatomy and Physiology I	3	3	0	0	4
	And						
BIO	166	Anatomy and Physiology II	3	3	0	0	4
BIO	175	General Microbiology	2	2	0	0	3
CHM	151	General Chemistry I	3	3	0	0	4
CHM	152	General Chemistry II	3	3	0	0	4
CHM	251	Organic Chemistry I	3	3	0	0	4
CHM	252	Organic Chemistry II	3	3	0	0	4
COM	231	Public Speaking	3	0	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
ENG	112	Writing/Research in the Discipl	3	0	0	0	3
HIS	112	World Civilizations II	3	0	0	0	3
MAT	152	Statistical Methods I	3	2	0	0	4
MAT	171	Pre-Calculus Algebra	3	2	0	0	4
MAT	172	Pre-Calculus Trigonometry	3	2	0	0	4
MAT	271	Calculus I	3	2	0	0	4
PHY	151	College Physics I	3	2	0	0	4
	Or						
PHY	251	General Physics I	3	3	0	0	4
		Literature*					3
		Social/Behavioral Sciences*					3

* Literature options – ENG 231, 232, 233, 241, 242, 252, 262
* Social/Behavioral Sciences options –SOC 210, ECO 251, ECO 252

Total Semester Credit Hours to be taken at BRCC.....67-70

Articulated Transfer Program – Physical Therapist Assistant (A10300PT)

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 technical 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 should consult Greenville Technical College for the latest admission requirements.

Students must have a unit of high school 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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
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
COM	231	Public Speaking	3	0	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
MAT	152	Statistical Methods I	3	2	0	0	4
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

**Any college transferable Humaities course will satisfy this requirement. Ethics, Philosophy, Art, Religion, or foreign language is suggested.

Note: Before application to program is considered BIO 150 must be completed through Greenville Technical College.

Total Semester Credit Hours to be taken at BRCC.....31

Web Technologies (A25290)

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, websites, 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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
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	3	0	0	3
WEB	110	Internet/Web Fundamentals	2	2	0	0	3
WEB	120	Intro to Internet Multimedia	2	2	0	0	3
		Social/Behavioral Science Elective**					3
		Subtotal					(16)
Spring Semester							
BUS	280	REAL Small Business	4	0	0	0	4
DBA	110	Database Concepts	2	3	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
WEB	111	Introduction to Web Graphics	2	2	0	0	3
WEB	115	Web Markup and Scripting	2	2	0	0	3
		Subtotal					(16)
Summer Term							
ENG	114	Professional Research/Report	3	0	0	0	3
MAT	143	Quantitative Literacy	2	2	0	0	3
		Humanities Elective**					3
		Subtotal					(9)
Fall Semester							
SEC	110	Security Concepts	2	2	0	0	3
WEB	180	Active Server Pages	2	2	0	0	3
WEB	182	PHP Programming	2	2	0	0	3
WEB	210	Web Design	2	2	0	0	3
WEB	215	Adv Markup and Scripting	2	2	0	0	3
		Subtotal					(15)
Spring Semester							
WBL	111	Work-Based Learning I	0	0	0	10	1
WEB	214	Social Media	2	2	0	0	3
WEB	250	Database Driven websites	2	2	0	0	3
WEB	287	Web E-Portfolio	1	2	0	0	2
		Subtotal					(9)

**Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on page 46.

Total Semester Credit Hours in Program 65

Web Technologies (D25290)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
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/Logic	2	3	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
WEB	110	Internet/Web Fundamentals	2	2	0	0	3
WEB	120	Intro to Internet Multimedia	2	2	0	0	3
		Subtotal					(16)
Spring Semester							
DBA	110	Database Concepts	2	3	0	0	3
WEB	111	Introduction Web Graphics	2	2	0	0	3
WEB	115	Web Markup and Scripting	2	2	0	0	3
WEB	182	PHP Programming	2	2	0	0	3
WEB	215	Adv Markup and Scripting	2	2	0	0	3
		Subtotal					(15)
Fall Semester							
MAT	143	Quantitative Literacy	2	2	0	0	3
WBL	111	Work-Based Learning	0	0	0	10	1
WEB	210	Web Design	2	2	0	0	3
		Subtotal					(7)

Total Semester Credit Hours in Program 38

Web Technologies – Basic (C25290)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
WEB	110	Internet/Web Fundamentals	2	2	0	0	3
WEB	120	Intro to Internet Multimedia	2	2	0	0	3
		Subtotal					(6)
Spring Semester							
DBA	110	Database Concepts	2	3	0	0	3
WEB	115	Web Markup and Scripting	2	2	0	0	3
		Subtotal					(6)
Fall Semester							
WEB	210	Web Design	2	2	0	0	3
		Subtotal					(3)

Total Semester Credit Hours in Program 15

Web Technologies – Graphics (C25290G)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
WEB	110	Internet/Web Fundamentals	2	2	0	0	3
WEB	120	Intro to Internet Multimedia	2	2	0	0	3
		Subtotal					(6)
Spring Semester							
WEB	111	Introduction to Web Graphics	2	2	0	0	3
WEB	115	Web Markup and Scripting	2	2	0	0	3
		Subtotal					(6)
Fall Semester							
WEB	210	Web Design	2	2	0	0	3
		Subtotal					(3)

Total Semester Credit Hours in Program 15

Web Technologies – Programming (C25290PR)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
CIS	115	Intro to Programming and Logic	2	3	0	0	3
WEB	110	Internet/Web Fundamentals	2	2	0	0	3
		Subtotal					(6)
Spring Semester							
WEB	115	Web Markup and Scripting	2	2	0	0	3
WEB	182	PHP Programming	2	2	0	0	3
WEB	215	Adv Markup and Scripting	2	2	0	0	3
		Subtotal					(9)

Total Semester Credit Hours in Program 15

Welding Technology (A50420)

Associate in Applied Science Degree

The Welding Technology curriculum provides students with a sound understanding of the science, technology, and applications essential for successful employment in the welding and metalworking industry.

Instruction includes consumable and non-consumable electrode welding and cutting processes. Courses may include math, print reading, metallurgy, welding inspection, and destructive and non-destructive testing providing the student with industry-standard skills developed through classroom training and practical application.

Graduate 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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
WLD	110	Cutting Processes	1	3	0	0	2
WLD	112	Basic Welding 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
		Subtotal					(13)
Spring Semester							
ENG	111	Writing and Inquiry	3	0	0	0	3
WLD	116	SMAW (stick) Plate/Pipe	1	9	0	0	4
WLD	121	GMAW (MIG) FCAW/Plate	2	6	0	0	4
WLD	131	GTAW (TIG) Plate	2	6	0	0	4
		Humanities Elective**	3	0	0	0	3
		Subtotal					(18)
Summer Term							
MAT	110	Math Measurement & Literacy	2	2	0	0	3
WLD	265	Automated Welding/Cutting	2	6	0	0	4
WLD	270	Orbital Welding TIG/Pipe	2	6	0	0	4
		Subtotal					(11)
Fall Semester							
ENG	114	Prof Research and Reporting	3	0	0	0	3
WLD	117	Industrial SMAW	1	4	0	0	3
WLD	132	GTAW (TIG) Plate/Pipe	1	6	0	0	3
WLD	212	Inert Gas Welding	1	3	0	0	2
WLD	215	SMAW (Stick) Pipe	1	9	0	0	4
		Major Course Elective***					3
		Subtotal					(18)
Spring Semester							
WLD	231	GTAW (TIG) Pipe	1	6	0	0	3
WLD	261	Certification Practices	1	3	0	0	2
WLD	262	Inspection & Testing	2	2	0	0	3
		Major Course Elective***	3	0	0	0	3
		Social Science Elective**	3	0	0	0	3
		Subtotal					(14)

**Humanities Electives and/or Social/Behavioral Science Electives are to be selected from the courses listed on page 46.

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

MEC	111	Machine Processes	1	4	0	0	3
PCJ	262	Hand Wrought Metals	1	3	0	0	2
WBL	111	Work-Based Learning I	0	0	0	10	1
WBL	121	Work-Based Learning II	0	0	0	10	1
WLD	151	Fabrication I	2	6	0	0	4
WLD	214	Sanitary Welding	2	6	0	0	4
WLD	251	Fabrication II	1	6	0	0	3

Total Semester Credit Hours in Program 74

Welding Technology (D50420)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
ACA	115	Success and Study Skills	0	2	0	0	1
WLD	110	Cutting Processes	1	3	0	0	2
WLD	112	Basic Welding 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
		Subtotal					(13)
Spring Semester							
ENG	111	Writing and Inquiry	3	0	0	0	3
WLD	116	SMAW (stick) Plate/Pipe	1	9	0	0	4
WLD	121	GMAW (MIG) FCAW/Plate	2	6	0	0	4
WLD	131	GTAW (TIG) Plate	2	6	0	0	4
		Subtotal					(15)
Summer Term							
MAT	110	Math Measurement & Literacy	2	2	0	0	3
WLD	265	Automated Welding/Cutting	2	6	0	0	4
WLD	270	Orbital Welding TIG/Pipe	2	6	0	0	4
		Subtotal					(11)

Total Semester Credit Hours in Program 39

Welding Technology – Industrial Plate Welding (C50420IW)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
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
		Subtotal					(10)
Spring Semester							
WLD	121	GMAW (MIG) FCAW/Plate	2	6	0	0	4
WLD	131	GTAW (TIG) Plate	2	6	0	0	4
		Subtotal					(8)

Total Semester Credit Hours in Program 18

Welding Technology – Industrial Pipe Welding (C50420PW)

Certificate

***Students should take the Welding Technology – Industrial Plate Welding certificate prior to the Industrial Pipe Welding 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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
WLD	215	SMAW (Stick) Pipe	1	9	0	0	4
		Subtotal					(4)
Spring Semester							
WLD	132	GTAW (TIG) Plate/Pipe	1	6	0	0	3
WLD	261	Certification Practices	1	3	0	0	2
WLD	262	Inspection and Testing	2	2	0	0	3
		Subtotal					(8)
Summer Term							
WLD	270	Orbital Welding TIG/Pipe	2	6	0	0	4
		Subtotal					(4)

Total Semester Credit Hours in Program 16

Welding Technology – Manufacturer Welding (C50420MW)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Semester							
WLD	112	Basic Welding Processes	1	3	0	0	2
WLD	117	Industrial SMAW	1	4	0	0	3
WLD	141	Symbols and Specifications	2	2	0	0	3
WLD	151	Fabrication I	2	6	0	0	4
		Subtotal					(12)
Spring Semester							
WLD	212	Inert Gas Welding	1	3	0	0	2
WLD	262	Inspection and Testing	2	2	0	0	3
		Subtotal					(5)

Total Semester Credit Hours in Program 17

Welding Technology – Fabrication (C50420WF)

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 Readiness Level Reading, English, and/or Math and other courses in developmental Reading, English, Math, Biology and Chemistry. For more information on developmental courses, see page 46 or speak to your program advisor.

			Class	Lab	Clinic	Work Exp.	Credit
Fall Term							
WLD	110	Cutting Processes	1	3	0	0	2
WLD	117	Industrial SMAW	1	4	0	0	3
WLD	151	Fabrication I	2	6	0	0	4
		Subtotal					(9)
Spring Semester							
WLD	212	Inert Gas Welding	1	3	0	0	2
WLD	251	Fabrication II	1	6	0	0	3
		Subtotal					(5)

Total Semester Credit Hours in Program 14

Students may earn additional certificates in the Production Pathway program. Speak to your faculty advisor for more information.