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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 "P" or 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 240 Introduction to Ethics PHI 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) Associate in Applied Science Degree

Online Option available

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.

your prograi	n advisor.	Class	Lab	Clinic	Work Exp.	Credit			
Fall Semester									
ACA 115 ACC 120 BUS 110 CIS 110 MAT 152	Success and Study Skills Prin of Financial Accounting Introduction to Business Introduction to Computers Statistical Methods I Subtotal	0 3 3 2 3	2 2 0 2 2	0 0 0 0	0 0 0 0	1 4 3 3 4 (15)			
Spring Sem				_	_	_			
ACC 122 ACC 140	Prin of Financial Acct II Payroll Accounting	3 1	0 2	0	0	3 2			
BUS 280 ECO 251 Or	REAL Small Business Principles of Microeconomics	4 3	0	0	0	4 3			
ECO 252 ENG 111	Principles of Macroeconomics Writing and Inquiry Subtotal	3	0	0	0	3 3 (15)			
Summer Te	rm								
CTS 130 ENG 114	Spreadsheet Prof. Research and Reporting Humanities Elective** Subtotal	3	2	0	0	3 3 (9)			
Fall Semes	ter								
ACC 121	Prin of Managerial Accounting	3	2	0	0	4			
ACC 129 ACC 220	Individual Income Taxes Intermediate Accounting I	2	2	0	0	3 4			
BUS 115	Business Law I	3	0	0	0	3			
	Major Course Elective*** Subtotal					3 (17)			
Spring Sem	nester								
ACC 150 ACC 227	Accounting Software App Practices in Accounting	1	2	0	0	2 3			
BUS 225	Business Finance	2	2	0	0	3			
WBL 111	Work-Based Learning I Social/Behavioral Science Elec	0 ctive**	,	0	10	1 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	139	Entrepreneurship I	3	0	0	0	3
BUS	153	Human Resource Management	3	0	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 Program68

Basic Accounting – Bookkeeping I (C25100B) Certificate

Online Option Available

Students may be required to take one or more developmental courses as a result of pre-enrollment placement 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 Credit

						Exp.	
Fall S	emest	er					
ACC BUS CIS	120 110 110	Prin of Financial Accounting Introduction to Business Introduction to Computers Subtotal	3 3 2	2 0 2	0 0 0	0 0 0	4 3 3 (10)
Sprin	g Sem	ester					
ACC ACC ACC	122 140 150	Prin of Financial Acct II Payroll Accounting Accounting Software App Subtotal	3 1 1	0 2 2	0 0 0	0 0 0	3 2 2 (7)

Total Semester Credit Hours in Program17

Basic Accounting – Bookkeeping II (C25100C)

Certificate

Online Option Available

Students may be required to take one or more developmental courses as a result of pre-enrollment placement 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.

your p	orogran	rauvisor.	Class	Lab	Clinic	Work Exp.	Credit	
Fall S	emest	er						
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	
		Subtotal					(11)	
Sprin	g Sem	ester						
ACC	227	Practices in Accounting	3	0	0	0	3	
CTS	130	Spreadsheet	2	2	0	0	3	
		Subtotal					(6)	
Total Semester Credit Hours in Program17								

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.

*This program of study qualifies for a prorated amount of federal and/or state financial aid.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement 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.

		tion on developmental courses, se	e pa	age 4	46 or	spea	k to
your p	rogram	advisor.					
		(Class	Lab	Clinic	Work Exp.	Credit
Fall S	emeste	er					
ACA	115	Success and Study Skills	0	2	0	0	1
ATT	115	Green Trans Safety and Service	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					(16)
Spring	g Seme	ester					
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)
Sumn	ner Ter	m					
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 Program42

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.

your p	orogram	i advisor.	Class	Lab	Clinic	Work Exp.	Credit			
Fall Semester										
ATT TRN TRN	140 120 170	Emerging Transport Tech Basic Transport Electricity PC Skills for Transport Subtotal	2 4 1	3 3 2	0 0 0	0 0 0	3 5 2 (10)			
Sprin	g Sem	ester								
ATT TRN	125 145	Hybrid-Electric Transportation Adv Transportation Electronics Subtotal				0	4 3 (7)			
Total Semester Credit Hours in Program17										

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.

your	nogran	i auvisui.	Class	Lab	Clinic	Work (Exp.	Credit			
Fall Semester										
TRN	120	Basic Transport Electricity		3		0	5			
TRN	130	Intro to Sustainable Trans Subtotal	2	2	0	0	3 (8)			
Sprin	Spring Semester									
ATT	115	Green Trans Safety and Service	e 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 Program16										

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.

your program advisor.								
your p	лодган	i auvisui.	Class	Lab	Clinic	Work Exp.	Credit	
Fall S	emest	er						
ACA BIO ENG NUR	115 165 111 111	Success and Study Skills Anatomy and Physiology I Writing and Inquiry Intro To Health Concepts Subtotal	0 3 3 4	2 3 0 6	0 0 0 6	0 0 0 0	1 4 3 8 (16)	
Sprin	g Sem	ester						
BIO NUR NUR PSY	166 112 211 150	Anatomy and Physiology II Health-Illness Concepts Health Care Concepts General Psychology Subtotal	3 3 3 3	3 0 0 0	0 6 6 0	0 0 0 0	4 5 5 3 (17)	
Summer Term								
BIO NUR PSY	175 114 241	General Microbiology Holistic Health Concepts Developmental Psychology Subtotal	2 3 3	2 0 0	0 6 0	0 0 0	3 5 3 (11)	
Fall S	emest	er						
ENG NUR NUR	113	Profes Research and Reporting Family Health Concepts Health System Concepts Humanities Elective** Subtotal	3 3 3	0 0 0	0 6 6	0 0 0	3 5 5 3 (16)	
Sprin	g Sem	ester						
NUR	213	Complex Health Concepts Subtotal	4	3	15	0	10 (10)	
**Humanities Elective is to be selected from ART-111, ART-114, ART-115, MUS-110, or PHI-240.								
Total Semester Credit Hours in Program70								

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.

*This program of study qualifies for a prorated amount of federal and/ or state financial aid.

Students may be required to take one or more developmental courses as a result of pre-enrollment placement 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.

		ition on developmental courses, a advisor.	see p	oage	46 C	r spe	еак то
your p	nogran	i auvisui.	Class	Lab	Clinic	Work Exp.	Credit
Fall S	emeste	er					
ACA	115	Success and Study Skills	0	2	0	0	1
LDD	112	Intro to Light-Duty Diesel	2	2	0	0	3
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					(14)
Sprin	g Sem	ester					
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)
Sumn	ner Ter	m					
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 Program42

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 Clini			Work Credit Exp.						
Fall S	Fall Semester											
LDD	112	Intro Light-Duty Diesel	2	2	0	0	3					
TRN	120	Basic Transport Electricity	4	3	0	0	5					
TRN	170	PC Skills for Transport	1	2	0	0	2					
		Subtotal					(10)					
Sprin	g Sem	ester										
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 Program17												

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.

your p	our program advisor.			Class Lab Clinic			Work Credit Exp.	
Fall S	Semest	er						
LDD	112	Intro Light-Duty Diesel	2	2	0	0	3	
TRN	170	PC Skills for Transport	1	2	0	0	2	
TRN	180	Basic Welding for Transport Subtotal	1	4	0	0	2 3 (8)	
Sprin	g Sem	ester						
HET	134	Diesel Fuel & Power Systems		3	0	0	3	
LDD	183	Air, Exhaust, Emissions Subtotal	2	6	0	0	4 (7)	
Sumr	ner Tei	rm						
LDD	284	LDD Test and Diagnosis Subtotal	2	3	0	0	3 (3)	
Total Semester Credit Hours in Program18								

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.

your p	our program advisor.			Class Lab Clinic Work Credi Exp.				
Fall S	emeste	er						
ACA AUT AUT TRN TRN TRN	115 151 151A 111 120 170	Success and Study Skills Brake Systems Brake Systems Lab* Chassis Maint/Light Repair Basic Transport Electricity PC Skills for Transport Subtotal	0 2 0 2 4 1	2 3 6 3 2	0 0 0 0 0	0 0 0 0 0	1 3 1 4 5 2 (16)	
Spring	Spring Semester							
AUT AUT AUT AUT ENG TRN	141 141A 181 181A 111 180	Suspension & Steering Sys Suspension & Steering Lab* Engine Performance 1 Engine Performance 1 Lab* Writing and Inquiry Basic Welding for Transport Humanities Elective** Subtotal	2 0 2 0 3 1	3 3 3 0 4	0 0 0 0 0	0 0 0 0 0	3 1 3 1 3 3 3 (17)	
Sumn	ner Ter	m						
AUT MAT TRN TRN	183 110 140 140A	Engine Performance 2 Math Measurement & Literacy Transport Climate Control Transport Climate Control Lab* Subtotal	2 2 1 1	6 2 2 2	0 0 0 0	0 0 0 0	4 3 2 2 (11)	

	Fall S	emest	er					
	AUT	116	Engine Repair	2	3	0	0	3
	AUT	116A	Engine Repair Lab*	0	3	0	0	1
	ENG	114	Prof Research and Reporting	3	0	0	0	3
	TRN	112	Powertrain Maint/Light Repair	2	6	0	0	4
	TRN	145	Adv Trans Electronics	2	3	0	0	3
			Major Course Elective***					3
			Subtotal					(17)
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*0	3	0	0	1
			Social/Behavioral Science Electi	ve**				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	Ö	4		
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	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		

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.

your p	our program advisor.			Lab	Clinic	Work Exp.	Credit			
Fall S	emest	er								
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	111 Or	Chassis Maint/Light Repair	2	6	0	0	4			
TRN	112	Powertrain Maint/Light Repair	2	6	0	0	4			
TRN	120	Basic Transport Electricity	4	3	0	0	5			
TRN	170	PC Skills for Transport	1	2	0	0	2			
		Subtotal					(16)			
Sprin	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			
TRN	180	Basic Welding for Transport	1	4	0	0	3			
		Major Course Elective*** Subtotal					2			
		Subtotal					(16)			
Sumn	ner Ter									
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)			
*Denc	otes a c	orequisite, course cannot be tak	en b	y itse	elf.					
***Ma	ior Cou	rse Electives are to be selected	from	the	follov	vina:				
ATT	125	Hybrid-Electric Transportation	2	4	0	0	4			
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 Program43										

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	Credit
			_	

D	:	C
Red	luirea	Courses

TRN	112	Powertrain Maint/Light Repair	2	6	0	0	4
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 Program18

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 Credit Exp.

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	111	Chassis Maint/Light Repair	2	6	0	0	4
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.

Class Lab Clinic Work Credit

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 Lah Clinic Work Credit

			Ciass	Lau	Cillilo	Exp.	Jieui
Requ	ired Co	ourses					
ATT	125	Hybrid-Electric Transportation	2	4	0	0	4
TRN	111	Chassis Maint/Light Repair	2	6	0	0	4
TRN	120	Basic Transport Electricity	4	3	0	0	5
TRN	120A	Basic Transp Electrical Lab	0	3	0	0	1
	Or						
WBL	111	Work-Based Learning I	0	0	0	10	1
TRN	145	Adv Transp Electronics	2	3	0	0	3

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

lotal Semester Credit Hours in Program	mester Credit Hours in Program	17
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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.

your p	orogram	i advisor.	Class	Lab	Clinic	Work Exp.	Credit
Requ	ired Co	ourses					
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	112	Powertrain Maint/Light Repair	2	6	0	0	4
TRN	120	Basic Transport Electricity	4	3	0	0	5
*Deno	otes a c	orequisite, course cannot be tak	cen by	/ itse	elf.		

Total Semester Credit Hours in Program17

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.

Required Courses										
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	112	Powertrain Maint/Light Repair	2	6	0	0	4			
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 Program18

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 Credit Exp.

Fall	Semes	ster
ı an	Jellie	SICI

ACA BDF BDF BDF ELC MNT	115 111 112 125 131 110	Success and Study Skills BDF Safety & Sanitation Survey of Fermented Products Bev Tech & Calculations Circuit Analysis I Intro to Maint Procedures Subtotal	0 1 3 1 3 1	2 3 3 3 3	0 0 0 0 0	0 0 0 0 0	1 2 4 2 4 2 (15)		
Spring Semester									
BDF	110	Fermentation Production	2	4	0	0	4		
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		
		Major Course Elective***					3		
		Subtotal					(17)		
Summer Term									
BDF	180	Sensory Evaluation Humanities Elective** Subtotal	2	2	0	0	3 3 (6)		

Fall S	emest	er						
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	
HYD	110	Hydraulics/Pneumatics I	2	3	0	0	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 Elect	ive*	ŧ			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.

***Maion Oosean Floodings and to be collected from the following

***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	112	Work-Based Learning I	0	0	0	20	2
	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
	WBL	133	Work-Based Learning III	0	0	0	30	3
	WLD	214	Sanitary Welding	2	6	0	0	4

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

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.

	ŭ		Class	Lab	Clinic	Work Exp.	Credit			
Fall Semester										
ACA	115	Success and Study Skills	0	2	0	0	1			
BDF		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)			
Sprin	g Sem	ester								
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					(3)			

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

Total Semester Credit Hours in Program36

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.

*This program of study does not qualify for federal and/or state financial aid.

			Class	Lab	Work Credit Exp.		
Requ							
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 Program14

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 m fc R d m У

as a recall or pro-critically placement teets	,,	0.000
may need more than the minimum number o	f semester hou	rs listed
or graduation. Developmental courses for th	is program may	/ include
Readiness Level Reading, English, and/or M		
developmental Reading, English, Math, Biolo	0,	,
more information on developmental courses,	see page 46 o	r speak to
our program advisor.	01 1 01 1	W 1 0 15
	Class Lab Clinic	Exp.

						-			
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.

*This program of study does not qualify for federal and/or state financial aid.

Class Lab Clinic Work Credit

Exp.

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 Program14

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

your	rogran	radvisor.	Class	Lab	Clinic	Work (Exp.	Credit
Requ	ired Co	ourses					
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

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 Credit

General Business Administration Pathway (A25120BA)

Associate in Applied Science Degree Online option available

Fall	Sem	ester
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ACA	\ 115 Or	Success and Study Skills	0	2	0	0	1
ACA BUS CIS ENC MKT	A 122 S 110 110 G 111	College Transfer Success Introduction to Business Introduction to Computers Writing and Inquiry Principles of Marketing Humanities Elective** Subtotal	0 3 2 3 3	2 0 2 0 0	0 0 0 0	0 0 0 0	1 3 3 3 3 (16)
Spri	ing Sem	nester					
BUS BUS ENC MAT	S 240 S 112 T 143	Principles of Management Business Ethics Writing/Research in the Disc Quantitative Literacy	3 3 3 2	0 0 0 2	0 0 0	0 0 0	3 3 3
MAT	Or 「 152 Or	Statistical Methods I	3	2	0	0	4
MAT	Г 171	Pre-Calculus algebra Major Course Elective*** Subtotal	3	2	0	0 (15	4 3 5-16)
Sun	nmer Te	rm					
		Social/Behavioral Science Elec Major Course Elective*** Subtotal	tive*	ŧ			3 3 (6)
Fall	Semes	ter					
ACC BUS ECC WBI	3 115 251	Prin of Financial Accounting Business Law I Principles of Microeconomics Work-Based Learning I Major Course Elective*** Subtotal	3 3 3 0	2 0 0 0	0 0 0 0	0 0 0 10	4 3 3 1 3 (14)

Spring Semester

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
BUS	280	REAL Small Business	4	0	0	0	4
ECO	252	Principles of Macroeconomics	3	0	0	0	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 MAJOR COURSE ELECTIVES LIST FOR ALL PATHWAYS on page 58.

Business Administration - Banking and Finance Pathway (A25120BF)

Associate in Applied Science Degree

Online option available

Fall Semester											
ACA 115 Or	Success and Study Skills	0	2	0	0	1					
ACA 122 BAF 110 BUS 110	College Transfer Success Principles of Banking Introduction to Business	0 3 3	2 0 0	0 0 0	0 0 0	1 3 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 Subtotal	3	0	0	0	3 (16)					
Spring Sem	ester										
BAF 131	Fund of Bank Lending	3	0	0	0	3					
BUS 137	Principles of Management	3	0	0	0	3					
ENG 112 MAT 143	Writing/Research in the Disc Quantitative Literacy	3	0 2	0	0	3 3					
Or	Quantitative Literacy	2	2	U	U	3					
MAT 152 Or	Statistical Methods I	3	2	0	0	4					
MAT 171	Pre-Calculus algebra	3	2	0	0	4					
	Major Course Elective*** Subtotal				(15	3 5-16)					
Summer Te	rm										
Summer Te	rm Social/Behavioral Science Elect Major Course Elective*** Subtotal	tive*'	k			3 3 (6)					
Summer Te	Social/Behavioral Science Elective*** Major Course Elective*** Subtotal	tive*	ŧ			3					
Fall Semest	Social/Behavioral Science Elect Major Course Elective*** Subtotal ter Prin of Financial Accounting	3	2	0	0	3 (6) 4					
Fall Semest ACC 120 BUS 115	Social/Behavioral Science Elect Major Course Elective*** Subtotal ter Prin of Financial Accounting Business Law I	3 3	2 0	0	0	3 (6) 4 3					
Fall Semest ACC 120 BUS 115 ECO 251	Social/Behavioral Science Elect Major Course Elective*** Subtotal ter Prin of Financial Accounting Business Law I Principles of Microeconomics	3 3 3	2 0 0	0	0	3 (6) 4 3 3					
Fall Semest ACC 120 BUS 115	Social/Behavioral Science Elect Major Course Elective*** Subtotal ter Prin of Financial Accounting Business Law I	3 3	2 0	0	0	3 (6) 4 3					
Fall Semest ACC 120 BUS 115 ECO 251	Social/Behavioral Science Elect Major Course Elective*** Subtotal ter Prin of Financial Accounting Business Law I Principles of Microeconomics Work-Based Learning I	3 3 3	2 0 0	0	0	3 (6) 4 3 3 1 3					
Fall Semes: ACC 120 BUS 115 ECO 251 WBL 111	Social/Behavioral Science Elective Major Course Elective*** Subtotal ter Prin of Financial Accounting Business Law I Principles of Microeconomics Work-Based Learning I Humanities Elective** Subtotal	3 3 3	2 0 0	0	0	3 (6) 4 3 3					
Fall Semes: ACC 120 BUS 115 ECO 251 WBL 111	Social/Behavioral Science Election Major Course Elective*** Subtotal ter Prin of Financial Accounting Business Law I Principles of Microeconomics Work-Based Learning I Humanities Elective** Subtotal	3 3 0	2 0 0 0	0 0 0	0 0 10	3 (6) 4 3 3 1 3 (14)					
Fall Semest ACC 120 BUS 115 ECO 251 WBL 111 Spring Sem BAF 141	Social/Behavioral Science Election Major Course Elective*** Subtotal ter Prin of Financial Accounting Business Law I Principles of Microeconomics Work-Based Learning I Humanities Elective** Subtotal tester Law & Banking: Principles	3 3 3 0	2 0 0 0	0 0 0	0 0 10	3 (6) 4 3 3 1 3 (14)					
Fall Semest ACC 120 BUS 115 ECO 251 WBL 111 Spring Sem BAF 141 BAF 222	Social/Behavioral Science Elect Major Course Elective*** Subtotal ter Prin of Financial Accounting Business Law I Principles of Microeconomics Work-Based Learning I Humanities Elective** Subtotal tester Law & Banking: Principles Money and Banking	3 3 3 0	2 0 0 0	0 0 0	0 0 10	3 (6) 4 3 3 1 3 (14)					
Fall Semest ACC 120 BUS 115 ECO 251 WBL 111 Spring Sem BAF 141	Social/Behavioral Science Election Major Course Elective*** Subtotal ter Prin of Financial Accounting Business Law I Principles of Microeconomics Work-Based Learning I Humanities Elective** Subtotal tester Law & Banking: Principles	3 3 3 0	2 0 0 0	0 0 0	0 0 10	3 (6) 4 3 3 1 3 (14) 3 3 3 3 3 3 3					
Fall Semest ACC 120 BUS 115 ECO 251 WBL 111 Spring Sem BAF 141 BAF 222 BUS 225	Social/Behavioral Science Elect Major Course Elective*** Subtotal ter Prin of Financial Accounting Business Law I Principles of Microeconomics Work-Based Learning I Humanities Elective** Subtotal tester Law & Banking: Principles Money and Banking Business Finance Principles of Macroeconomics Major Course Elective***	3 3 3 0	2 0 0 0	0 0 0 0 0	0 0 10	3 (6) 4 3 3 1 3 (14) 3 3 3 3 3 3 3 3					
Fall Semest ACC 120 BUS 115 ECO 251 WBL 111 Spring Sem BAF 141 BAF 222 BUS 225	Social/Behavioral Science Elect Major Course Elective*** Subtotal ter Prin of Financial Accounting Business Law I Principles of Microeconomics Work-Based Learning I Humanities Elective** Subtotal tester Law & Banking: Principles Money and Banking Business Finance Principles of Macroeconomics	3 3 3 0	2 0 0 0	0 0 0 0 0	0 0 10	3 (6) 4 3 3 1 3 (14) 3 3 3 3 3 3 3					

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

Total Semester Credit Hours in Program66-67

Business Administration - Marketing & Retailing Pathway (A25120MR) Associate in Applied Science Degree

Online option available

Fall S	emeste	er					
ACA	115 Or	Success and Study Skills	0	2	0	0	1
ACA BUS CIS ENG MKT	122 110 110 111 120	College Transfer Success Introduction to Business Introduction to Computers Writing and Inquiry Principles of Marketing Humanities Elective** Subtotal	0 3 2 3 3	2 0 2 0 0	0 0 0 0	0 0 0 0	1 3 3 3 3 (16)
Spring	g Seme	ester					
BUS BUS ENG MAT	137 240 112 143 Or	Principles of Management Business Ethics Writing/Research in the Disc Quantitative Literacy	3 3 2	0 0 0 2	0 0 0	0 0 0	3 3 3
MAT	152 Or	Statistical Methods I	3	2	0	0	4
MAT MKT Or	171 123	Pre-Calculus algebra Fundamentals of Selling	3	2	0	0	4 3
MKT	223	Customer Service Subtotal	3	0	0	0 (15	3 5-16)
Sumn	ner Ter	m					
		Social/Behavioral Science Elective Major Course Elective*** Subtotal	/e**				3 3 (6)
Fall S	emeste	er					
ACC BUS ECO MKT WBL	120 115 251 220 111	Prin of Financial Accounting Business Law I Principles of Microeconomics Advertizing and Sales Promotion Work-Based Learning I Major Course Elective*** Subtotal	3 3 3 0	2 0 0 0 0	0 0 0 0	0 0 0 0 10	4 3 3 1 3 (17)
Spring	g Seme	ester					
ECO MKT MKT MKT	252 225 227 232	Principles of Macroeconomics Marketing Research Marketing Applications Social Media Marketing Major Course Elective*** Subtotal	3 3 3 3	0 0 0 2	0 0 0 0	0 0 0 0	3 3 4 3 (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 MAJOR COURSE ELECTIVES LIST FOR ALL PATHWAYS on page 58.

^{***}Major Course Electives are to be selected from the MAJOR COURSE ELECTIVES LIST FOR ALL PATHWAYS on page 58.

Business Administration Diplomas and Certificates Marketing & Retailing (D25120)

Diploma

Online option available

Fall Semester

ACA BUS BUS CIS MKT MKT	115 115 137 110 120 220	Success and Study Skills Business Law I Principles of Management Introduction to Computers Principles of Marketing Advertizing and Sales Promo Subtotal	0 3 3 2 3 3	2 0 0 2 0 0	0 0 0 0 0	0 0 0 0 0	1 3 3 3 3 (16)
Sprin	g Sem	ester					
ACC ECO MKT MKT MKT	120 251 225 227 232	Prin of Financial Accounting Principles of Microeconomics Marketing Research Marketing Applications Social Media Marketing Subtotal	3 3 3 3	2 0 0 0 2	0 0 0 0	0 0 0 0	4 3 3 3 4 (17)
Sumr	ner Tei	m					
ENG	111	Writing and Inquiry	3	0	0	0	3

Total Semester Credit Hours in Program39

(6)

Business Administration - Basic* (C25120BA)

Quantitative Literacy

Subtotal

Certificate

MAT

143

Online option available

Students may be required to take one or more developmental courses as a result of pre-enrollment placement 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.

*This program of study does not qualify for federal and/or state financial aid.

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

Total Semester Credit Hours in Program15

Entrepreneurship (C25120E) Certificate

Online option available

Students may be required to take one or more developmental courses as a result of pre-enrollment placement 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.

your pro	our program advisor.					•	
			Class	s Lab	Clinic	Work Exp.	Credit
						Lxp.	
Fall Se	meste	er					
BUS 1	39	Entrepreneurship I	3	0	0	0	3
MKT 1	120	Principles of Marketing	3	0	0	0	3
		Subtotal					(6)
Spring	Seme	ester					
	120	Prin of Financial Accounting	3	2	0	0	4
	280	REAL Small Business	4	0	0	0	4
WEB 2		Social Media	2	2	0	0	3
WLD 2		Subtotal	_	_	O	O	(11)
							` '
Total S	Seme	ster Credit Hours in Progr	am .				17
		3					
***MAJ	OR C	OURSE ELECTIVE LIST FOR A	ALL P	ATH	WAY	S	
ACC 1	121	Principles of Managerial Acct I	I 3	2	0	0	4
ACC 1	129	Individual Income Taxes	2	2	0	0	3
ACC 1	150	Acct Software Appl	1	2	0	0	2
	110	Principles of Banking	3	0	0	0	3
	131	Fundamentals of Bank Lending		0	0	0	3
	222	Money and Banking	3	0	0	0	3
	16	Business Law II	3	0	0	0	3
	25	Personal Finance	3	0	0	0	3
	39	Entrepreneurship I	3	0	0	0	3
	228	Business Statistics	2	2	0	0	3
	239	Business Applications Seminal		2	0	0	2
	240	Business Ethics	3	0	0	0	3
	270	Professional Development	3	0	0	0	3
	280	REAL Small Business	4	0	0	0	4
	30	Spreadsheet	2	2	0	0	3
	10	Database Concepts	2	3	0	0	3
_	210 123	Introduction to E-Commerce Fundamentals of Selling	3	2	0	0	3
	220	Advertising and Sales Promo	3	0	0	0	3
	225	Marketing Research	3	0	0	0	3
	223	S .	3	0	0	0	3
	232	Marketing Applications Social Media Marketing	3	2	0	0	4
	112	Broker Prelicensing	5	0	0	0	5
WEB 1		Internet/Web Fundamentals	2	2	0	0	3
WEB 2		Social Media	2	2	0	0	3
			_	_	•	·	•

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.

vour r	orogran						
your				Class Lab Clinic			Credit
Fall S	emest	er					
ACA	115	Success and Study Skills	0	2	0	0	1
TRN	120	Basic Transport Electricity	4	3	0	0	5
TRN		PC Skills for Transport	1	2	0	0	2
TRN		Basic Welding for Transport	1	4	0	0	3
TRN	180A	S .	0	3	0	0	1
		Subtotal					(12)
Sprin	g Sem	ester					
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	•		2	0	0	2
		Humanities Elective**	3	0	0	0	3
		Subtotal					(17)
Sumr	ner Ter	m					
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	/e**				3			
		Subtotal					(13)			
Spring	g Seme	ester								
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.

Total Semester Credit Hours in Program65

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.

your program advisor.				Lab	Clinic	Work Exp.	Credit			
Fall S	emest	er								
ACA TRN TRN TRN TRN	170	Success and Study Skills Basic Transport Electricity PC Skills for Transport Basic Welding for Transport Basic Welding for Trans Lab* Subtotal	0 4 1 1 0	2 3 2 4 3	0 0 0 0	0 0 0 0	1 5 2 3 1 (12)			
Sprin	g Sem	ester								
AUB AUB AUB ENG TRN TRN	162 111	Painting and Refinishing I Non-Structural Damage I Autobody Estimating Writing and Inquiry Transport Climate Control Transport Climate Control Lab* Subtotal	2 1 1 3 1	6 4 2 0 2 2	0 0 0 0 0	0 0 0 0 0	4 3 2 3 2 2 (16)			
Sumr	ner Ter	m								
AUB AUB MAT	136	Structural Damage I Plastics and Adhesives Math Measurement & Literacy Subtotal	2 1 2	4 4 2	0 0 0	0 0 0	4 3 3 (10)			
*Denotes a corequisite, course cannot be taken by itself.										
Total	Total Semester Credit Hours in Program38									

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

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 Credit Exp.

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	136	Plastics and Adhesives	1	4	0	0	3				
AUB	162	Autobody Estimating	1	2	0	0	2				
TRN	170	PC Skills for Transport	1	2	0	0	2				
Total Semester Credit Hours in Program18											

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 Credit Exp.

Required Courses

AUB	111	Painting and Refinishing I	2	6	0	0	4
AUB	112	Painting and Refinishing II	2	6	0	0	4
AUB	121	Non-Structural Damage I	1	4	0	0	3
AUB	122	Non-Structural Damage II	2	6	0	0	4
AUB	136	Plastics and Adhesives	1	4	0	0	3

Total Semester Credit Hours in Program18

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
Requ	ired Co	ourses					
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	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 Program16

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 Credit Ехр. **Fall Semester** ACA 115 Success and Study Skills 0 2 0 n 1 Introduction to Computers 2 2 3 CIS 110 0 0 ENG 111 Writing and Inquiry 3 0 0 0 3 Elementary Spanish I SPA 111 3 0 0 0 3 SPA 181 Spanish Lab 1* 0 2 0 0 1 Introduction to Spanish Interp. 3 0 SPI 113 0 3 Major Course Elective*** 3 Subtotal (17)**Spring Semester ENG** 114 Prof Research and Reporting 0 Ω n 3 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 3 0 0 SPA 182 Spanish Lab 2* 2 0 0 1 Subtotal (13)**Summer Term** Intermediate Spanish I SPA 211 0 0 3 3 0 SPA 281 Spanish Lab 3* 0 2 0 0 1 SPI Review of Grammar 3 0 0 0 3 213 Humanities Elective** 3 Subtotal (10)**Fall Semester** SPA 120 Spanish for the Workplace Ω 0 3 3 0 Cultural Immersion 3 SPA 161 3 0 SPA 212 Intermediate Spanish II 3 0 0 0 3 SPA 282 Spanish Lab 4* 0 2 0 0 1 SPI Analytical Skills for Spanish Int. 3 3 114 Social/Behavioral Science Elective** 3 (16)Subtotal

Sprii	ig Sem	ester						
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.

Carina Competer

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

***Ma	***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			

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.

		advises,	see l	Jaye	40 0	ı spe	ak iu
your pro	ogram	advisor.	Class	Lab	Clinic	Work Exp.	Credit
Fall Se	meste	er					
BPR 1 ISC 1 MAC 1 MAC 1	115 111 112 121 141 141A	Success and Study Skills Print Reading Industrial Safety Intro to CNC Machining Applications I Machining Appl I Lab Subtotal	0 1 2 2 2 0	2 2 0 0 6 6	0 0 0 0 0	0 0 0 0 0	1 2 2 2 4 2 (13)
Spring	Seme						
MAC 1 MAC 1 MAC 1	111 122 124 142 142A 151	Writing and Inquiry CNC Turning CNC Milling Machining Applications II Machining Appl II Lab Machining Calculations Subtotal	3 1 1 2 0 1	0 3 6 6 2	0 0 0 0 0	0 0 0 0 0	3 2 2 4 2 2 (15)
Summe	er Ter	m					
	110 151	Introduction to Computers CAD I Major Course Elective*** Subtotal	2 2	2	0	0	3 3 6 (12)
Fall Se	meste	er					
MAT 1	222 143 110	Advanced CNC Turning Quantitative Literacy Intro to CAD/CAM Social/Behavioral Science Elec Major Course Elective*** Subtotal	1 2 1 ctive**	3 2 2	0 0 0	0 0 0	2 3 2 3 6 (16)
Spring	Seme	ester					
ENG 1 ISC 1 MAC 2	114 132 224 248	Prof Research & Reporting Mfg Quality Control Advanced CNC Milling Production Procedures Humanities Elective** Subtotal	3 2 1 1	0 3 3 2	0 0 0 0	0 0 0 0	3 2 2 2 3 (13)

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

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

"""IVIa	jor Cou	irse Electives are to de selected	trom	tne	TOIIO	wing:	
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
DFT	170	Engineering Graphics	2	2	0	0	3
EGR	125	Appl Software for Tech	1	2	0	0	2
EGR	150	Intro to Engineering	1	2	0	0	2
ISC	135	Principles of Industrial Mgmt	4	0	0	0	4
MEC	145	Mfg Materials I	2	3	0	0	3
MEC	155	Env Benign Manufacturing	2	2	0	0	3
MEC	180	Engineering Materials	2	3	0	0	3
PLA	110	Introduction to Plastics	2	0	0	0	2
PLA	162	Plastics Manuf 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	121	Work-Based Learning II	0	0	0	10	1
WBL	122	Work-Based Learning II	0	0	0	20	2
WBL	131	Work-Based Learning III	0	0	0	10	1
WBL	132	Work-Based Learning II	0	0	0	20	21
WLD	112	Basic Welding Processes	1	3	0	0	2

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

Total Semester Credit Hours in Program69

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		Credit
emeste	er					
115 111 121 141 141A 143	Success and Study Skills Print Reading Intro to CNC Machining Applications I Machining Appl I Lab Quantitative Literacy Subtotal	0 1 2 2 0 2	2 2 0 6 6 2	0 0 0 0 0	0 0 0 0 0	1 2 2 4 2 3 (14)
g Seme	ester					
142	Print Reading Writing and Inquiry CNC Turning CNC Milling Machining Applications II Machining Appl II Lab Machining Calculations Subtotal	1 3 1 1 2 0 1	2 0 3 6 6 2	0 0 0 0 0	0 0 0 0 0 0	2 3 2 4 2 2 (15)
ner Ter 110 151	m Introduction to Computers CAD I Major Course Elective*** Subtotal	2 2	2	0	0	3 3 6 (12)
	115 111 121 141 141A 143 9 Seme 111 111 122 124 142 142A 151	111 Print Reading 121 Intro to CNC 141 Machining Applications I 141A Machining Appl I Lab 143 Quantitative Literacy Subtotal g Semester 111 Print Reading 111 Writing and Inquiry 122 CNC Turning 124 CNC Milling 142 Machining Appl II Lab 142A Machining Appl II Lab 151 Machining Calculations Subtotal ner Term 110 Introduction to Computers 151 CAD I Major Course Elective***	### 15 Success and Study Skills 0 111 Print Reading 1 121 Intro to CNC 2 141 Machining Applications I 2 141A Machining Appl I Lab 0 143 Quantitative Literacy 2 Subtotal ### 2 Subtotal ### 3 Semester ### 111 Print Reading 1 111 Writing and Inquiry 3 122 CNC Turning 1 124 CNC Milling 1 142 Machining Appl II Lab 0 151 Machining Appl II Lab 0 151 Machining Calculations 1 151 Machining Calculations 1 151 Machining Calculations 1 151 Machining Calculations 2 151 CAD I 2 151 Major Course Elective***	### 15 Success and Study Skills 0 2 111 Print Reading 1 2 121 Intro to CNC 2 0 141 Machining Applications I 2 6 141A Machining Appl I Lab 0 6 143 Quantitative Literacy 2 2 Subtotal 2 ### 2 Subtotal 2 ### 3 Semester 11 Print Reading 1 2 111 Writing and Inquiry 3 0 122 CNC Turning 1 3 142 CNC Milling 1 3 142 Machining Applications II 2 6 142A Machining Appl II Lab 0 6 141A Machining Calculations 1 2 151 Machining Calculations 1 2 151 CAD I 2 3 Major Course Elective***	### 15 Success and Study Skills	### Exp. ### Exp. ### ### ### Exp. ### ### ### ### ### ### ### ### ### #

Class Lab Clinic Work Credit

Class Lab Clinic Work Credit

***Ma	jor Cou	irse Electives are to be selected	l from	the	follo	wing:	
ATR	112	Intro to Automation	2	3	0	Ō	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
DFT	170	Engineering Graphics	2	2	0	0	3
EGR	125	Appl Software for Tech	1	2	0	0	2
EGR	150	Intro to Engineering	1	2	0	0	2
ISC	135	Principles of Industrial Mgmt	4	0	0	0	4
MEC	145	Mfg Materials I	2	3	0	0	3
MEC	155	Env Benign Manufacturing	2	2	0	0	3
MEC	180	Engineering Materials	2	3	0	0	3
PLA	110	Introduction to Plastics	2	0	0	0	2
PLA	162	Plastics Manuf 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	121	Work-Based Learning II	0	0	0	10	1
WBL	122	Work-Based Learning II	0	0	0	20	2
WBL	131	Work-Based Learning III	0	0	0	10	1
WBL	132	Work-Based Learning II	0	0	0	20	21
WLD	112	Basic Welding Processes	1	3	0	0	2

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

Total Semester Credit Hours in Program41

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.

your	nogran	i auvisoi.	Class	Lab	Clinic	Work Exp.	Credit
Requ	ired Co	ourses					
BPR	111	Print Reading	1	2	0	0	2
MAC	121	Intro to CNC	2	0	0	0	2
MAC	122	CNC Turning	1	3	0	0	2
MAC	141	Machining Applications I	2	6	0	0	4
MAC	141A	Machining Appl I Lab	0	6	0	0	2
MAC	142	Machining Applications II	2	6	0	0	4
MAC	142A	Machining Appl II Lab	0	6	0	0	2

Total Semester Credit Hours in Program18

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.

						Exp.					
Required Courses											
BPR	111	Print Reading	1	2	0	0	2				
MAC	121	Intro to CNC	2	0	0	0	2				
MAC	124	CNC Milling	1	3	0	0	2				
MAC	141	Machining Applications I	2	6	0	0	4				
MAC	141A	Machining Appl I Lab	0	6	0	0	2				
MAC	142	Machining Applications II	2	6	0	0	4				
MAC	142A	Machining Appl II Lab	0	6	0	0	2				

Total Semester Credit Hours in Program18

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.

						Exp.		
Required Courses								
BPR	111	Print Reading	1	2	0	0	2	
ISC	112	Industrial Safety	2	0	0	0	2	
MAC	141	Machining Applications I	2	6	0	0	4	
MAC	141A	Machining Appl I Lab	0	6	0	0	2	
MAC	142	Machining Applications II	2	6	0	0	4	
MAC	142A	Machining Appl II Lab	0	6	0	0	2	
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	
	Exp.

Required Courses

AUT	116	Engine Repair	2	3	0	0	3
AUT	116A	Engine Repair Lab*	0	3	0	0	1
MAC	141	Machining Applications I	2	6	0	0	4
MAC	141A	Machining Appl I Lab	0	6	0	0	2
MAC	142	Machining Applications II	2	6	0	0	4
MAC	142A	Machining Appl II Lab	0	6	0	0	2
MAC	151	Machining Calculations	1	2	0	0	2

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

Total Semester Credit Hours in Program18

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	Credit
			Evn	

Required Courses

ATR	112	Intro to Automation	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
		Major Course Electives***					8

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

2
2
2
2
2
3
2
3
3
3

Cosmetology (A55140) **Associate in Applied Science Degree**

The Cosmetology curriculum is designed to provide competencybased 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 S	emest	er						
COS COS	111 112	Cosmetology Concepts I Salon I Subtotal	4	0 24	0	0	4 8 (12)	
Sprin	g Sem	ester						
ACA COS COS ENG		Success and Study Skills Cosmetology Concepts II Salon II Writing and Inquiry Subtotal	0 4 0 3	2 0 24 0	0 0 0 0	0 0 0 0	1 4 8 3 (16)	
Sumn	ner Ter	m						
COS COS ENG		Cosmetology Concepts III Salon III Prof Research and Reporting Subtotal	4 0 3	0 12 0	0 0 0	0 0 0	4 4 3 (11)	
Fall S	emest	er						
COS COS COS MAT	240	Cosmetology Concepts IV Salon IV Contemporary Design Computerized Salon Operations Quantitative Literacy Subtotal	2 0 1 1 1 2	0 21 3 0 2	0 0 0 0	0 0 0 0	2 7 2 1 3 (15)	
Sprin	g Sem	ester						
BUS CIS	280 110	REAL Small Business Introduction to Computers Humanities Elective** Social/Behavioral Science Elect Major Course Elective*** Subtotal	4 2 ive*'	0 2	0	0	4 3 3 3 3 (16)	
Day s	Day students that begin in Spring will follow this course sequence:							

Spring Semester

ACA 115

COS 111

COS 112

Success and Study Skills

Cosmetology Concepts I

Salon I

Subtotal

Class Lab Clinic Work Credit

0

2 0

0

24 0 Ехр.

0

0

(13)

_								
	Sumn	ner Ter	m					
	COS COS ENG	113 114A 111	Cosmetology Concepts II Salon IIA Writing and Inquiry Subtotal	4 0 3	0 12 0	0 0 0	0 0 0	4 4 3 (11)
	Fall S	emeste	er					
	COS COS ENG	114B 250 114	Salon IIA Computerized Salon Operations Prof Research and Reporting Major Course Elective*** Subtotal	0 1 3	12 0 0	0 0 0	0 0 0	4 1 3 3 (11)
	Spring	g Seme	ester					
	BUS COS COS COS	280 115 116 240	REAL Small Business Cosmetology Concepts II Salon III Contemporary Design Subtotal	4 4 0 1	0 0 12 3	0 0 0 0	0 0 0 0	4 4 4 2 (14)
	Sumn	ner Ter	m					
	COS COS MAT	117 118A 143	Cosmetology Concepts IV Salon IVA Quantitative Literacy Subtotal	2 0 2	0 12 2	0 0 0	0 0 0	2 4 3 (9)
	Fall S	emeste	er					
	CIS COS	110 118B	Introduction to Computers Salon IVB Humanities Elective** Social/Behavioral Science Electi Subtotal	2 0 ve**	2 9	0	0	3 3 3 (12)
			Electives and/or Social/Behavior			ce Ele	ctive	es
	ara to	na cala	acted from the courses listed on n	and	46			

are to be selected from the courses listed on page 46.

"""IVIa	jor Cou	irse Electives are to de selected fi	rom	tne	tollo/	ving:	
BUS	137	Principles of Management	3	0	0	Ō	3
BUS	153	Human Resource Management	3	0	0	0	3
BUS	270	Professional Development	3	0	0	0	3

Total Semester Credit Hours in Program70

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 S	emeste	er					
COS	111	Cosmetology Concepts I	4	0	0	0	4
COS	112	Salon I Subtotal	0	24	0	0	8 (12)
Sprin	g Sem	ester					
ACA	115	Success and Study Skills	0	2	0	0	1
cos	113	Cosmetology Concepts II	4	0	0	0	4
cos	114	Salon II	0	24	0	0	8
ENG	111	Writing and Inquiry	3	0	0	0	3
		Subtotal					(16)

66								
Summer Term								
COS 115 Cosmetology Concepts III COS 116 Salon III	4 0	0 12	0	0	4 4			
ENG 114 Prof Research and Reporting Subtotal	3	0	0	0	3 (11)			
Fall Semester								
COS 117 Cosmetology Concepts IV COS 118 Salon IV Subtotal	0	0 21	0	0	2 7 (9)			
Day students that begin in Spring will follo	w thi	s co	urse	seque	ence:			
	Class	s Lab	Clinic	Work Exp.	Credit			
Spring Semester								
ACA 115 Success and Study Skills	0	2	0	0	1			
COS 111 Cosmetology Concepts I COS 112 Salon I	4	0 24	0	0	4 8			
Subtotal					(13)			
Summer Term								
COS 113 Cosmetology Concepts II	4	0	0	0	4			
COS 114A Salon IIA ENG 111 Writing and Inquiry	0	12 0	0	0	4 3			
Subtotal					(11)			
Fall Semester								
COS 114B Salon IIA	0	12	0	0	4			
ENG 114 Prof Research and Reporting Subtotal	3	0	0	0	3 (7)			
Spring Semester								
COS 115 Cosmetology Concepts II	4	0	0	0	4			
COS 116 Salon III Subtotal	0	12	0	0	4 (8)			
					(0)			
Summer Term COS 117 Cosmetology Concepts IV	2	0	0	0	2			
COS 117 Cosmetology Concepts IV COS 118A Salon IVA	0	12	0	0	4			
Subtotal					(6)			
Fall Semester								
COS 118B Salon IVB Subtotal	0	9	0	0	3			
Subiolal					(3)			
Total Semester Credit Hours in Program48								
Cosmetology (C55140) Certificate								
Students may be required to take one or ma	ro do	volor	man	tal aa	urooo			

Students may be required to take one or more developmental courses as a result of pre-enrollment placement 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

Day s	Day students that begin in Fall will follow this course sequence:							
			Class	s Lab	Clinic	Work Exp.	Credit	
Fall S	emeste	er						
COS	111	Cosmetology Concepts I	4	0	0	0	4	
COS	112	Salon I	0	24	0	0	8	
		Subtotal					(12)	
Sprin	g Seme	ester						
COS	113	Cosmetology Concepts II	4	0	0	0	4	
COS		Salon II	0	24	0	0	8	
cos	240	Contemporary Design	1	3	0	0	2	
		Subtotal					(14)	

Summer Te	rm								
COS 115 COS 116	Cosmetology Concepts III Salon III Subtotal	4 0	-	0	0 0	4 4			
	Subtotal					(8)			
Day students that begin in Spring will follow this course sequence									
		Clas	s Lab	Clinic	Work Exp.	Credit			
Spring Sem	ester								
COS 111	Cosmetology Concepts I	4	0	0	0	4			
COS 112	Salon I Subtotal	0	24	0	0	8 (12)			
Summer Te	rm								
COS 113	Cosmetology Concepts II	4	0	0	0	4			
COS 114A	Salon IIA Subtotal	U	12	0	0	4 (8)			
Fall Semest	er								
COS 114B	Salon IIB	0	12	0	0	4			
COS 240	Contemporary Design Subtotal	1	3	0	0	2 (6)			
Spring Sem	ester								
COS 115	Cosmetology Concepts III	4	-	0	0	4			
COS 116	Salon III Subtotal	0	12	0	0	4 (8)			
Total Semester Credit Hours in Program34									
Cosmot	alagy Instructor (C5	51	6N)						

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

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

vour r	your program advisor.								
,	3		Class	Lab	Clinic	Work Exp.	Credit		
Fall S	emest	er							
COS	271	Instructor Concepts I	5	0	0	0	5		
cos	272	Instructor Practicum I Subtotal	0	21	0	0	7 (12)		
Sprin	g Sem	ester							
COS	273	Instructor Concepts II	5	0	0	0	5 7		
COS	274	Instructor Practicum II Subtotal	0	21	0	0	7 (12)		
Total Semester Credit Hours in Program24									

Criminal Justice Technology (A55180) Associate in Applied Science Degree - Online option available

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 131)

Students may be required to take one or more developmental courses as a result of pre-enrollment placement 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.

your program advisor.							
your program davisor.	Cla	ss Lab		Work Credit Exp.			
Fall Semester							
ACA 115 Success and Study Skills Or	0	2	0	0	1		
ACA 122 College Transfer Success	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		
CJC 212 Ethics & Comm Relations	3	0	0	0	3		
POL 130 State and Local Government	3	0	0	0	3		
Major Course Elective***					3		
Subtotal					(15)		

Sumn	ner Ter	m							
ENG	112 Or	Writing/Research in the Disc	3	0	0	0	3		
ENG	114	Prof. Research and Reporting	3	0	0	0	3		
MAT	110 Or	Math Measurement & Literacy	2	2	0	0	3		
MAT	143 Or	Quantitative Literacy	2	2	0	0	3		
MAT	152	Statistical Methods I Humanities Elective**	3	2	0	0	4 3		
		Subtotal				(9 -	10)		
Fall S	emest	er							
CJC	113	Juvenile Justice	3	0	0	0	3		
CJC	122	Community Policing	3	0	0	0	3		
CJC		Court Procedure & Evidence	3	0	0	0	3		
CJC	221	Investigative Principles	3	2	0	0	4		
		Major Course Elective***					3		
		Subtotal					(16)		
Sprin	g Sem	ester							
BUS	270	Professional Development	3	0	0	0	3		
CJC	141	Corrections	3	0	0	0	3		
CJC	170	Critical Incident Mgmt Pub Saf	3	0	0	0	3		
CJC	255	Issues in Crim Justice App	3	0	0	0	3		
		Subtotal					(12)		
Ctudo	Studente planning to transfer to a 4 year institution about date								

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.

***Ma	jor Cou	rse Electives are to be selected f	rom	the	follo	wing:	
ASL	111	Elementary ASL I	3	0	0	Ö	3
CJC	120	Interviews/Interrogations	1	2	0	0	2
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	232	Civil Liability	3	0	0	0	3
CJC	241	Community-Based Corrections	3	0	0	0	3
COM	120	Intro Interpersonal Comm	3	0	0	0	3
COM	231	Public Speaking	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
POL	120	American Government	3	0	0	0	3
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	210	Introduction to Sociology	3	0	0	0	3
SOC	220	Social Problems	3	0	0	0	3
SPA	120	Spanish for the Workplace	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

Criminal Justice Technology (D55180) Diploma - Online option available

Students may be required to take one or more developmental courses as a result of pre-enrollment placement 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.

,	J		Class	Lab	Clinic	Work Exp	Credit
Fall S	emest	er					
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	132	Court Procedure & Evidence	3	0	0	0	3
CJC	231	Constitutional Law	3	0	0	0	3
		Subtotal					(16)
Sprin	g Sem	ester					
CIS	110	Introduction to Computer	2	2	0	0	3
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
		Humanities Elective**					3
		Subtotal					(15)
Sumr	ner Tei	rm					
ENG	111	Writing and Inquiry	3	0	0	0	3
MAT	110 Or	Math Measurement & Literacy	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					(6-7)

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

Total Semester Credit Hours in Program37-38

Criminal Justice Technology - Criminal Justice I (C55180)

Certificate - Online option available

Students may be required to take one or more developmental courses as a result of pre-enrollment placement 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.

, 1	3		Class	Lab	Clinic	Work (Exp.	Credit
Requ	ired Co	ourses					
ACA	115	Success and Study Skills	0	2	0	0	1
CJC	111	Intro to Criminal 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	141	Corrections	3	0	0	0	3
CJC	231	Constitutional Law	3	0	0	0	3

Total Semester Credit Hours in Program16

Criminal Justice Technology - Criminal Justice II* (C55180C)

Certificate - Online option available

Students may be required to take one or more developmental courses as a result of pre-enrollment placement 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.

*This program of study does not qualify for federal and/or state financial aid

financial aid.											
			Class Lab Clinic			Work Credit Exp.					
Requ	ired C	ourses									
CJC	112	Criminology	3	0	0	0	3				
CJC	121	Law Enforcement Operations	3	0	0	0	3				
CJC	141	Corrections	3	0	0	0	3				
CJC	231	Constitutional Law	3	0	0	0	3				
Total Semester Credit Hours in Program12											

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 131)0)

Students may be required to take one or more developmental courses as a result of pre-enrollment placement 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.

your	rogran		Class	Lab	Clinic	Work Exp.	Credit
Fall S	emest	er					
ACA	115 Or	Success and Study Skills	0	2	0	0	1
ACA	122	College Transfer Success	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	231	Constitutional Law	3	0	0	0	3
ENG	111	Writing and Inquiry	3	0	0	0	3
		Subtotal					(16)
Sprin	g Sem	ester					
CIS	110	Introduction to Computers	2	2	0	0	3
CJC	112	Criminology	3	0	0	0	3
CJC	131	Criminal Law	3	0	0	0	3
CJC	170	Critical Incident Mgmt Pub Saf	3	0	0	0	3
POL	130	State and Local Government	3	0	0	0	3
		Subtotal					(15)

Summer Te	rm					
ENG 112 Or	Writing/Research in the Disc	3	0	0	0	3
ENG 114	Prof. Research and Reporting	3	0	0	0	3
MAT 110 Or	Math Measurement & Literacy	2	2	0	0	3
MAT 143 Or	Quantitative Literacy	2	2	0	0	3
MAT 152	Statistical Methods I	3	2	0	0	4
	Humanities Elective**					3
	Subtotal				(9-10)
Fall Semest	ter					
CJC 122	Community Policing	3	0	0	0	3
CJC 132	Court Procedure & Evidence	3	0	0	0	3 3
CJC 144	Crime Scene Processing	2	3	0	0	
CJC 146	Trace Evidence	2	3	0	0	3
CJC 221	Investigative Principles	3	2	0	0	4
	Subtotal					(16)
Spring Sem	ester					
BUS 270	Professional Development	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 3
CJC 246	Adv Friction Ridge Analysis	2	3	0	0	
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.

Total Semester Credit Hours in Program71-72

Criminal Justice Technology/Latent Evidence - Certificate I* (C5518AA) Certificate - Online option available

Students may be required to take one or more developmental courses as a result of pre-enrollment placement 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.

*This program of study does not qualify for federal and/or state financial aid.

Class Lab Clinic Work Credit

						Ехр.	
Requ	ired C	ourses					
CJC	111	Intro to Criminal Justice	3	0	0	0	3
CJC	131	Criminal Law	3	0	0	0	3
CJC	132	Court Procedure & Evidence	3	0	0	0	3
CJC	221	Investigative Principles	3	2	0	0	4

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

Criminal Justice Technology/Latent Evidence - Certificate II* (C5518AB) Certificate - Online option available

Students may be required to take one or more developmental courses as a result of pre-enrollment placement 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.

*This program of study does not qualify for federal and/or state

financial aid.										
illian	oiai aic	••	Class Lab Clinic			Work Credit Exp.				
Requ	ired C	ourses								
CJC	121	Law Enforcement Operations	3	0	0	0	3			
CJC	122	Community Policing	3	0	0	0	3			
CJC	144	Crime Scene Processing	2	3	0	0	3			
CJC	231	Constitutional Law	3	0	0	0	3			
Total Semester Credit Hours in Program12										

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

0		riate course choices.	y wili	ı uı	eli au	VISUI	ιο
make	арргор		Class	Lab	Clinic	Work Exp.	Credit
Fall S	emeste	er					
ACA EDU EDU	115 119 144	Success and Study Skills Intro Early Childhood Education Child Development I	0 4 3	2 0 0	0 0 0	0 0 0	1 4 3
EDU ENG	173 111	Becoming a Prof'l in ECE Writing and Inquiry Subtotal	3	0	0	0	3 3 (14)
Spring	g Seme	ester					
EDU EDU ENG	145 151 112 Or	Child Development II Creative Activities Writing/Research in the Discipl	3 3 3	0 0 0	0 0 0	0 0 0	3 3 3
ENG	114	Prof. Research and Reporting Major Course Elective*** Major Course Elective*** Subtotal	3	0	0	0	3 3 3 (15)
Sumn	ner Ter	m					
	Or	Math Requirement**					3-4
	Or	Natural Science Requirement** Humanities Elective** Social/Behavioral Science Elect Subtotal	tive**			(!	4 3 3 9-10)

Fall Semest	er					
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)
EDU 234 EDU 271 EDU 280 EDU 284	ester Infants, Toddlers & Twos Educational Technology Language & Literacy Exp Early Child Capstone Practicum Subtotal	3 2 3 1	0 2 0 9	0 0 0 0	0 0 0	3 3 4 (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.

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

	urse Electives are to be selected f	rom	the	cour	ses lis	ted
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 Plav	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 SPA 111	Fit and Well for Life	1 3	2	0	0	2
SPA 111	Elementary Spanish I Spanish Lab 1*	0	2	0	0	1
31 A 101	Spanish Lab 1	U	_	U	U	'
Total Sem	ester Credit Hours in Progra	m .			6	6-67
	hildhood Education		_		_	
Assoc	ciate in Applied Science Deg	ree	- 0	nlin	e Opt	ion
	Class Lab Cl	inic	Work	Cree	lit	
Fall Semest	ter (Odd Years)					
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 Sem	ester (Even Years)					
EDU 145	Child Development II	3	0	0	0	3
EDU 131	Child, Family, & Community	3	0	0	0	3
ENG 112	Writing/Research in the Discipl	3	0	0	03	
Or ENG 114	Drof December and Departing 2	^	0	0	3	
ENG 114	Prof. Research and Reporting 3 Major Course Elective***	0	U	U	3	2
	Major Course Elective Major Course Elective***					3 3
	Subtotal					(15)
Cummar T						(10)
	erm (Even Years) Requirement**		3 о	r 1		
Or	requirement		30	. 4		
	Natural Science Requirement**				4	
	Social/Behavioral Science Elect	ive*	*			3
	Humanities Elective**					3
	Subtotal				(9	9-10)
Fall Semes	ter (Even Years)					
EDU 151	Creative Activities	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)
	nester (Odd Years)	_	-	_	_	
EDU 234	Infants, Toddlers & Twos	3	0	0	0	3
EDU 271	Educational Technology	2	2	0	0	3
EDU 280 EDU 284	Language & Literacy Exp Early Child Capstone Practicum	3 1	0 9	0	0	3
EDU 704	T AUV CHIIO CAUSIONE PIACHCUM	- 1	\exists	0	0 4	
	zany onma capatono i racticam			Su	btotal	(13)

Total Semester Credit Hours in Program66-67

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		
	emest	 -							
EDU	119	Intro Early Childhood Education	1 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)		
Sprin	g Sem	ester							
EDU	131	Child, Family and Community	3	0	0	0	3		
EDU	145	Child Development II	3	0	0	0	3		
EDU	184	Early Child Intro Practicum	1	3	0	0	2		
		Subtotal					(8)		
Total Semester Credit Hours in Program1									

^{***}Major Course Electives are to be selected from the Electives listed above (6 credit hours required)

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)

Infant-Toddler Child Development Associate (CDA Credential: NC Community College Track).												
, ,				Clinic	ic Work Credit Exp.							
Fall S	Fall Semester											
EDU	119	Intro Early Childhood Education	1 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)					
Sprin	g Sem	ester										
EDU	131	Child, Family and Community	3	0	0	0	3					
EDU	234	Infants, Toddlers, & Twos	3	0	0	0	3					
		Subtotal					(6)					
Total	Total Semester Credit Hours in Program16											

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.

your program advisor.				Lab	Clinic	Work (Exp.	Credit				
Fall S	Fall Semester										
	157 163 275	Active Play Classroom Mgt. and Instruction Effective Teacher Training Subtotal	2 1 3 2	2 0 0	0 0 0	0 0 0	3 3 2 (8)				
Sprin	g Sem	ester									
EDU EDU EDU	131 145 235	Child, Family and Community Child Development II School-Age Dev and Programs Subtotal	3 3 3	0 0 0	0 0 0	0 0 0	3 3 (9)				
Total	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.

your program advisor.			Class	Lab	Clinic	Work (Exp.	Credit
Sumn	ner Ter	m					
EDU	119	Intro Early Childhood Education Subtotal	n 4	0	0	0	4 (4)
Fall S	emeste	er					
EDU	153	Health, Safety & Nutrition	3	0	0	0	3
EDU	261	Early Childhood Admin I Subtotal	3	0	0	0	3 (6)
Spring	g Seme	ester					
EDU	131	Child, Family & Community	3	0	0	0	3
EDU	262	Early Childhood Admin II Subtotal	3	0	0	0	3 (6)
Total	Seme	ster Credit Hours in Progr	am				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 schoolage 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 Lah Clinic Work Credit

			Class	Lab	Cilriic	Exp.	. Credit
Fall S	emest	er					
ACA	115 Or	Success and Study Skills	0	2	0	0	1
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)
Sprin	g Sem	ester					
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 3 3
		Humanities Elective**					3
		Social/Behavioral Science Elec	tive**				3
		Subtotal					(15)
Sumr	ner Te	rm					
		Math Elective**					3-4
		Humanities Elective**					3
		Subtotal					(6-7)

Fall S	emest	er					
EDU	216	Foundations of Education	4	0	0	0	4
EDU	221	Children with Exceptionalities Science Elective**	3	0	0	0	3 4
		Social/Behavioral Science Elec	tive**				3
		Subtotal					(14)
Sprin	g Sem	ester					
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
		Humanities Elective**					3
		Social/Behavioral Science Elec	tive**				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.

**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		
Philo	sophy								
PHI	240	Introduction to Ethics	3	0	0	0	3		
Interr	nationa	I Languages (up to 3 credits al	lowe	ed)					
ASL	111	Elementary ASL I	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		
SPA	111	Elementary Spanish I	3	0	0	0	3		
SPA	181	Spanish Lab 1*	0	2	0	0	1		
		Subtotal					(12)		

		Subtotal					(12)
(9 ser discip	nester	navioral Science hours required. Three courses fro eas must be selected. Note: Histo uired.)			differ	ent	
Econ	omics						
ECO	251	Principles of Microeconomics	3	0	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	0	3
Histo	ry						
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
Politi	cal Sci	ence					
POL	120	American Government	3	0	0	0	3
Psycl	nology						
PSY	150	General Psychology	3	0	0	0	3
Socio	logy						
SOC	210	Introduction to Sociology Subtotal	3	0	0	0	3 (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.

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 schoolage 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 Credit

			Class Lab Clini			Exp.				
Fall Semester										
ACA	115 Or	Success and Study Skills	0	2	0	0	1			
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	6-17)			
Sprin	g Sem	ester								
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)			

Summe	er Ter	m					
		Math Elective** Humanities Elective** Social/Behavioral Science Electi Subtotal	ve**			(!	3-4 3 3 9-10)
Fall Se	meste	er					
	216 221	Foundations of Education Child with Exceptionalities Humanities Elective** Natural/Physical Science Electiv Subtotal	4 3 e**	0	0	0	4 3 3 4 (14)
Spring	Seme	ester					
	285 289	Internship Exp-School-Age Adv Issues/School Age Science Elective** Social/Behavioral Science Electi Subtotal	1 2 ve**	9	0	0	4 2 4 3 (13)
	_	m works in conjunction with the g					

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.

**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
Litera	ature (1	Course required)					
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
Philo	sophy						
PHI	240	Introduction to Ethics	3	0	0	0	3
Interr	nationa	l Languages					
ASL	111	Elementary ASL I	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
SPA	111	Elementary Spanish I	3	0	0	0	3
SPA	181	Spanish Lab 1*	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.

different discipline areas. Note: HIS 111 or HIS 112 is required.							
oles of Microeconomics	3	0	0	0	3		
oles of Macroeconomics	3	0	0	0	3		
History (1 course required)							
Civilizations I	3	0	0	0	3		
Civilizations II	3	0	0	0	3		
Political Science							
can Government	3	0	0	0	3		
	ples of Microeconomics ples of Macroeconomics	ples of Microeconomics 3 ples of Macroeconomics 3 required) Civilizations I 3 Civilizations II 3	ples of Microeconomics 3 0 ples of Macroeconomics 3 0 required) Civilizations I 3 0 Civilizations II 3 0	ples of Microeconomics 3 0 0 ples of Macroeconomics 3 0 0 operations I	ples of Microeconomics 3 0 0 0 0 ples of Macroeconomics 3 0 0 0 0 orequired) Civilizations I 3 0 0 0 Civilizations II 3 0 0 0		

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 twocourse 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 (2 courses required)

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					(7-8)

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

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.

your	nogram	radvisor.	Class Lab Clinic Work Credit Exp.				
Fall S	emest	er					
ACA	115 Or	Success and Study Skills	0	2	0	0	1
ACA	122	College Transfer Success	0	2	0	0	1
DFT	170	Engineering Graphics	2	2	0	0	3
EGR	111 Or	Engineer Comp and Careers	2	2	0	0	3
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 Or	Algebra/Trigonometry I	2	2	0	0	3
MAT	171	Pre-calculus Algebra	3	2	0	0	4
		Subtotal				(16	-18)
Sprin	g Sem	ester					
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 Or	Algebra/ Trigonometry II	2	2	0	0	3
MAT	172	Precalculus Trigonometry Humanities Elective**	3	2	0	0	4 3
		Subtotal				(14	-15)

Sumn	ner Ter	m					
ISC ENG	112 114	Industrial Safety Prof Research and Reporting Major Course Elective*** Subtotal	2	0	0	0	2 3 2-4 (7-9)
Fall S	emeste	er					
ELC ELN ELN PHY	128 131 133 131	Introduction to PLC Analog Electronics Digital Electronics Physics – Mechanics Social/Behavioral Science Electi Subtotal	2 3 3 3 ve**	3 3 2	0 0 0 0	0 0 0 0	3 4 4 4 3 (18)
Sprin	g Seme	ester					
ELC ELN ELN MEC MNT	228 232 234 276 160	PLC Applications Intro to Microprocessors Communication Systems Capstone Design Project Industrial Fabrication Subtotal	2 3 3 0 1	6 3 3 3 3	0 0 0 0	0 0 0 0	4 4 1 2 (15)

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

***Ma	***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		
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 Program70-75

Electronics Engineering Technology (D40200)

Diploma

,	Ü		Class	Lab	Clinic	Work Exp.	Credit
Fall S	emest	ter					
ACA	115	Success and Study Skills	0	2	0	0	1
	Or						
ACA	122	College Transfer Success	0	2	0	0	1
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)

0	2
0	4
0	2
0	3
0	4
	(16)
0	3
0	2
	(5)
	0 0 0 0

Total Semester Credit Hours in Program39

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			
Requ	Required Courses									
ACA	115 Or	Success and Study Skills	0	2	0	0	1			
ACA	122	College Transfer Success	0	2	0	0	1			
EGR	111	Engineer Comp and Careers	2	2	0	0	3			
	Or									
EGR	150	Introduction to Engineering	1	2	0	0	2			
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			
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 Program16-18										

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.

your	orogiai	davico	Class	Lab	Clinic	Work Exp.	Credit
Requ	ired C	ourses					
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 Program16

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.

your p	nogran	i auvisui.	Class	Lab	Clinic	Work (Exp.	Credit				
Requi	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 Program16-17											

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

Emergency Management (A55460) – Pending State Approval

Associate in Applied Science Degree

The Emergency Management curriculum is designed to provide students with a foundation of technical and professional knowledge needed for emergency services delivery in local and state government agencies. Study involves both management and technical aspects of law enforcement, fire protection, emergency medical services, and emergency planning.

Course work includes classroom and laboratory exercises to introduce the student to various aspects of emergency preparedness, protection, and enforcement. Students will learn technical and administrative skills such as investigative principles, hazardous materials, codes, standards, emergency agency operations, and finance.

Employment opportunities include ambulance services, fire/rescue agencies, law enforcement agencies, fire marshal offices, industrial firms, educational institutions, emergency management offices, and other government agencies. Employed persons should have opportunities for skilled and supervisory-level positions.. 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.

vour r	your program advisor.							
, o a p	og. a	. 44.16611	Class	Lab	Clinic	Work Exp.	Credit	
Fall S	emest	er						
ACA ENG EPT EPT EPT	115 111 150 220 275	Success and Study Skills Writing and Inquiry Incident Management Terrorism and Emer. Mgt Emergency Ops Center Mgt Subtotal	0 3 3 3 3	2 0 0 0 0	0 0 0 0	0 0 0 0	1 3 3 3 3 (13)	
Sprin	g Sem	ester						
ENG EPT EPT FIP	114 120 140 152 228	Prof Research and Reporting Sociology of Disaster Emergency Management Fire Protection Law Local Govt Finance Subtotal	3 3 3 3	0 0 0 0	0 0 0 0	0 0 0 0	3 3 3 3 (15)	
Sumn	ner Ter	m						
CIS MAT	110 110	Introduction to Computers Math Measurement & Literacy Humanities/Fine Arts** Subtotal	2 2	2	0	0	3 3 (9)	
Fall S	emest	er						
EPT EPT	130 210	Mitigation & Preparedness Response & Recovery Major Course Elective*** Subtotal	3	0	0	0 0 (12	3 3 6-8 2-14)	
Sprin	g Sem	ester						
PSY	150	General Psychology Major Course Elective*** Subtotal	3	0	0		3 2-15 5-18)	

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

***Ma	***Major Course Electives are to be selected from the following:							
FIP	164	OSHA Standards	3	0	0	0	3	
FIP	221	Adv Fire Fighting Strat	3	0	0	0	3	
FIP	240	Fire Service Supervision	3	0	0	0	3	
FIP	248	Fire Svc Personnel Adm	3	0	0	0	3	
FIP	256	Munic Public Relations	3	0	0	0	3	
FIP	260	Fire Protect Planning	3	0	0	0	3	
FIP	276	Managing Fire Services	3	0	0	0	3	
CJC	120	Interviews/Interrogations	1	2	0	0	2	
CJC	170	Critical Incident Mgmt Pub Saf	3	0	0	0	3	
CJC	215	Organization & Administration	3	3	0	0	3	

Total Semester Credit Hours in Program64-69

Emergency Management (D55460) Diploma

, ,			Class	Lab	Clinic	Work Exp.	Credit
Fall S	Semest	ter					
ACA EPT EPT EPT EPT EPT	115 130 150 210 220 275	Success and Study Skills Mitigation & Preparedness Incident Management Response & Recovery Terrorism and Emer. Mgt Emergency Ops Center Mgt Subtotal	0 3 3 3 3 3	2 0 0 0 0	0 0 0 0 0	0 0 0 0 0	1 3 3 3 3 (16)
Sprin	g Sem	ester					
EPT EPT FIP FIP	120 140 152 228	Sociology of Disaster Emergency Management Fire Protection Law Local Govt Finance Major Course Elective*** Subtotal	3 3 3	0 0 0 0	0 0 0	0 0 0 0	3 3 3 6 (18)
Sumi	ner Te	rm					
CIS ENG	110 111	Introduction to Computers Writing and Inquiry Subtotal	2	2	0	0	3 3 (6)
***Ma	jor Co	urse Electives are to be selected	from	the	follow	ving:	
FIP FIP FIP FIP FIP CJC CJC CJC	164 221 240 248 256 260 276 120 170 215	OSHA Standards Adv Fire Fighting Strat Fire Service Supervision Fire Svc Personnel Adm Munic Public Relations Fire Protect Planning Managing Fire Services Interviews/Interrogations Critical Incident Mgmt Pub Saf Organization & Administration	3 3 3 3 3 1 3 3	0 0 0 0 0 0 0 2 0 3	0 0 0 0 0 0 0	0 0 0 0 0 0 0	3 3 3 3 3 3 2 3 3
Tota	Sem	ester Credit Hours in Progr	am .				40

Emergency Management (C55460) Certificate

your p	our program advisor.			Lab	Work Credit Exp.				
Fall S	Semest	er							
EPT	220	Terrorism and Emer. Mgt	3	0	0	0	3		
EPT	275	Emergency Ops Center Mgt	3	0	0	0	3		
EPT	130	Mitigation & Preparedness	3	0	0	0	3		
EPT	210	Response & Recovery	3	0	0	0	3		
		Subtotal					(12)		
Sprin	g Sem	ester							
EPT	120	Sociology of Disaster	3	0	0	0	3		
EPT	140	Emergency Management	3	0	0	0	3		
		Subtotal					(6)		
Total Semester Credit Hours in Program18									

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.

The Emergency Medical Science Program is accredited by the Commission on Acceditation 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 Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP), Suite 111-312, 8301 Lakeview Parkway, Rowlett, TX 75088; Phone: 214-703-8445; Fax: 214-703-8992; www.coaemsp. org.

Graduates will take the North Carolina Office of Emergency Medical Services (NCOEMS) examination for recognition as a paramedic. Graduates will also be eligible to take the National Registry of Emergency Medical Technicians (NREMT) examination. Employment opportunities include ambulance services, fire and rescue agencies, air medical services, specialty areas of hospitals, industry, physician's offices, educational institutions, and government agencies.

Students should have good physical strength and flexibility; be able to see, hear, and communicate well; and have strong critical thinking skills. Blue Ridge Community College's clinical site partners require criminal background checks, drug testing, and tuberculosis screening along with proof of immunizations.

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.

your p	your program advisor.				Class Lab Clinic V				
Fall S	emeste	er							
ACA BIO EMS MED	115 163 110 120	Success and Study Skills Basic Anat & Physiology EMT Survey of Med Terminology Subtotal	0 4 6 2	2 2 6 0	0 0 0 0	0 0 0 0	1 5 8 2 (16)		
Sprin	g Sem	ester							
CIS EMS EMS EMS EMS MAT		Introduction to Computers EMS Clinical Practicum I Pharmacology Adv Airway Management Cardiology I Math Measurement & Literacy Subtotal	2 0 3 1 1 2	2 0 3 2 3 2	0 3 0 0 0	0 0 0 0 0	3 1 4 2 2 3 (15)		
Sumn	ner Ter	m							
EMS EMS EMS PSY	220 221 260 150	Cardiology II EMS Clinical Practicum II Trauma Emergencies General Psychology Subtotal	2 0 1 3	3 0 3 0	0 6 0 0	0 0 0 0	3 2 2 3 (10)		

meste	er					
231	EMS Clinical Practicum III	0	0	9	0	3
240	Patients w/ Special Challenges	1	2	0	0	2
250	Medical Emergencies	3	3	0	0	4
270	Life Span Emergencies	2	3	0	0	3
111	Writing and Inquiry	3	0	0	0	3
	Subtotal					(15)
Seme	ester					
115	Defense Tactics for EMS	1	3	0	0	2
Or						
235	EMS Management	2	0	0	0	2
241	EMS Clinical Practicum IV	0	0	12	0	4
285	EMS Capstone	1	3	0	0	2
114	Prof Research & Reporting	3	0	0	0	3
	Humanities Elective**					3
	Subtotal					(14)
	231 240 250 270 111 Seme 115 Or 235 241 285	Patients w/ Special Challenges Medical Emergencies Life Span Emergencies Writing and Inquiry Subtotal Semester Defense Tactics for EMS Or EMS Management EMS Clinical Practicum IV EMS Capstone Prof Research & Reporting Humanities Elective**	231 EMS Clinical Practicum III 0 240 Patients w/ Special Challenges 1 250 Medical Emergencies 3 270 Life Span Emergencies 2 111 Writing and Inquiry 3 Subtotal Semester 115 Defense Tactics for EMS 1 Or 235 EMS Management 2 241 EMS Clinical Practicum IV 0 285 EMS Capstone 1 114 Prof Research & Reporting 1 Humanities Elective**	231	231 EMS Clinical Practicum III 0 0 9	231 EMS Clinical Practicum III 0 0 9 0 240 Patients w/ Special Challenges 1 2 0 0 250 Medical Emergencies 3 3 0 0 270 Life Span Emergencies 2 3 0 0 111 Writing and Inquiry 3 0 0 0 Subtotal Semester 115 Defense Tactics for EMS 1 3 0 0 Or 235 EMS Management 2 0 0 0 241 EMS Clinical Practicum IV 0 0 12 0 285 EMS Capstone 1 3 0 0 Humanities Elective**

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

Total Semester Credit Hours in Program70

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.

	Class	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)

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

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.

your p	nogram	radvisor.	Class	Lab	Clinic	Work Exp	
Fall S	emest	er					
EMS	110	EMT Subtotal	6 6 0		0	0	8 (8)
Sprin	g Sem	ester					
ACA BIO EMS EMS EMS		Success and Study Skills Basic Anatomy & Physiology EMS Clinical Practicum I Pharmacology Cardiology I Subtotal	0 4 0 3 1	2 2 0 3 3	0 0 3 0	0 0 0 0	1 5 1 4 2 (13)
Sumn	ner Ter	m					
EMS EMS EMS PSY	221	Cardiology II EMS Clinical Practicum II Trauma Emergencies General Psychology Subtotal	2 0 1 3	3 0 3 0	0 6 0 0	0 0 0 0	3 2 2 3 (10)
Fall S	emest	er					
EMS EMS ENG		EMS Clinical Practicum III Medical Emergencies Writing and Inquiry Subtotal	0 3 3	0 3 0	9 0 0	0 0 0	3 4 3 (10)
Sprin	g Sem	ester					
EMS EMS	241 285	EMS Clinical Practicum IV EMS Capstone Subtotal	0	0	12 0	0	4 2 (6)

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.

Total Semester Credit Hours in Program47

,	J		Class	Lab	Clinic	Work Credit Exp.		
Fall S	emes	ter						
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	

(11-12)

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.

your p	your program advisor.			Class Lab Clinic Work Cre Exp.				
Fall S	emest	er						
ACA BIO EHS ENG MAT	115 111 114 111 121	Success and Study Skills General Biology OSHA Regulations Writing and Inquiry Algebra/Trigonometry I Subtotal	0 3 4 3 2	2 3 0 0 2	0 0 0 0	0 0 0 0	1 4 3 3 (15)	
Sprin	g Sem	ester						
BIO BIO ENG	140 140A 112 Or	Environmental Biology Environmental Biology Lab* Writing/Research in the Discipl	3 0 3	0 3 0	0 0 0	0 0 0	3 1 3	
ENG PHS	114 130	Prof Research and Reporting Earth Science Social/Behavioral Science Elec Subtotal	3 3 ctive**	0 2	0	0	3 4 3 (14)	
Sumr	ner Ter	m						
BIO CIS	145 110	Ecology Introduction to Computers Major Course Elective*** Subtotal	3 2	3 2	0	0	4 3 3 (10)	
Fall S	emest	er						
BIO CHM	240 131 And	Waste Management Introduction to chemistry	3	0	0	0	3 3	
СНМ	131A Or	Intro to Chemistry Lab*	0	3	0	0	1	
CHM ENV	151 218	General Chemistry I Environmental Health Humanities Elective** Major Course Elective*** Subtotal	3	3 0	0	0	4 3 3 3 (16)	

	9							
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	

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

ENV 228 Environmental Issues

Subtotal

^{**}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	
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 Program66-67

Environmental Science Technology (D20140)

Diploma

Spring Semester

your p	your program auvisor.			Lab	Work Credit Exp.		
Fall S	emeste	er					
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	g Seme	ester					
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)
Sumn	ner Ter	m					
CIS	110	Introduction to Computers Major Course Electives*** Subtotal	2	2	0	0	3 7 (10)

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

***Ma	jor Cou	irse Electives are to be selected f	rom	the	follo	wing:	
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
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	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 Program40

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 Credit Exp.

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

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

***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		

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 Credit Exp.

Fall Semester							
COS 253	Esthetics Instructor Concepts I Subtotal	6	15	0	0	11 (11)	
Spring Sem	ester						
COS 254	Esthetics Instructor Concepts II Subtotal	6	15	0	0	11 (11)	
Total Semester Credit Hours in Program22							

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.

your program advisor.				_				
) o a. p	og. a	. 44.16611	Class	Lab	Clinic	Work (Exp.	Credit	
Fall S	emest	er						
cos	119	Esthetics Concepts I	2	0	0	0	2	
cos	120	Esthetics Salon I	0	18	0	0	6	
		Subtotal					(8)	
Spring	g Sem	ester						
COS	125	Esthetics Concepts II	2	0	0	0	2	
COS	126	Esthetics Salon II	0	18	0	0	6	
		Subtotal					(8)	

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.

your program advisor.			Class	Class Lab Clinic			Work Credit Exp.		
Fall S	emest	er							
ACA ENG FVP FVP FVP MAT	114	Success and Study Skills Writing and Inquiry Intro to Film and Video Camera and Lighting I Sound Operations Quantitative Literacy	2 3 2 2 2 2	0 0 3 3 3 2	0 0 0 0 0	0 0 0 0 0	1 3 3 3 3 3		
MAT	171	Pre-calculus Algebra Subtotal	3	2	0	0 (16	4 6-17)		
Sprin	g Sem	ester							
ENG	112 Or	Writing/Research in the Discipl	3	0	0	0	3		
ENG	114	Profess Research and Report	3	0	0	0	3		
FVP		Art Dept. Operations I	1	4	0	0	3		
FVP FVP		Grip and Electrical I Camera and Lighting II	1 2	4	0	0	3		
FVP	220	Editing I Subtotal	2	3	0	0	3 (15)		
Sumr	ner Tei	m							
		Humanities Elective** Major Course Elective*** Social/Behavioral Science Elective** Subtotal	ctive*	k		(3 1-3 3 (7-9)		
Fall S	emest	er							
FVP FVP FVP	130 212 221 240	Grip and Electrical II Production Techniques I Editing II Introduction to Screenwriting Major Course Elective*** Subtotal	1 1 2 3	4 12 3 0	0 0 0 0	0 0 0 0	3 5 3 1-3		
, ,						,			

Spring Semester

FVP	120	Art Dept. Operations II	1	4	0	0	3
FVP	213	Production Techniques II	1	12	0	0	5
FVP	215	Production Management	2	3	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	Ö	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
DRA	130	Acting I	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
FVP	223	Postproduction Sound Design	1	4	0	0	3
SGD	111	Introduction to SGD	2	3	0	0	3
SGD	112	SGD Design	2	3	0	0	3
SGD	114	3D Modeling	2	3	0	0	3
SGD	117	Art for Games	2	3	0	0	3
SGD	162	SG 3D Animation	2	3	0	0	3
SGD	214	3D Modeling II	2	3	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 Program69-72

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.

your program auvisor.			Class	Lab	Clinic	Work Exp.	Credit
Fall S	emeste	er					
ACA ENG FVP FVP FVP	115 111 111 114 116	Success and Study Skills Writing and Inquiry Intro to Film and Video Camera and Lighting I Sound Operations Subtotal	0 3 2 2 2	2 0 3 3 3	0 0 0 0	0 0 0 0	1 3 3 3 3 (13)
Sprin	g Seme	ester					
FVP FVP FVP	112 113 215 220	Art Dept. Operations I Grip and Electrical I Production Management Editing I Major Course Elective*** Subtotal	1 1 2 2	4 4 3 3	0 0 0 0	0 0 0 0	3 3 3 3 (15)
Sumn	ner Ter	m					
MAT	143 Or	Quantitative Literacy	2	2	0	0	3
MAT	171	Pre-calculus Algebra Subtotal	3	2	0	0	4 (3-4)
Fall S	emeste	er					
FVP FVP	212 240	Production Techniques I Introduction to Screenwriting Subtotal	1	12 0	0	0	5 3 (8)
		rse Electives are to be selected					
FVP FVP	115 221	Camera & Lighting II Editing II	2	3	0	0	3 3
FVP	223	Postproduction Sound Design	1	4	0	0	3

Total Semester Credit Hours in Program39-40

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.

*This program of study does not qualify for federal and/or state financial aid.

mun	Jiai aia	•	Class	Lab	Clinic	Work (Exp.	Credit			
Fall Semester										
FVP FVP	111 114 116	Intro to Film and Video Camera and Lighting I Sound Operations Subtotal	2 2 2		0 0 0	0 0 0	3 3 (9)			
Spring Semester										
FVP	112 Or	Art Dept. Operations I	1	4	0	0	3			
FVP FVP	113 220	Grip and Electrical I Editing I Subtotal	1 2	4	0	0	3 3 (6)			
Total Semester Credit Hours in Program1										

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.

Coursework 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.

your p	your program advisor.			Class Lab Clinic			Work Credit Exp.		
Fall S	emest	er							
ACA ENG FIP FIP	115 111 120 124 128	Success and Study Skill Writing and Inquiry Intro to Fire Protection Fire Prevention and Public Ed Detection and Investigation Subtotal	0 3 3 3 3	2 0 0 0	0 0 0 0	0 0 0 0	1 3 3 3 3 (13)		
Sprin	g Sem	ester							
ENG FIP FIP FIP	114 132 152 220 228	Prof Research and Reporting Building Construction Fire Protection Law Fire Fighting Strategies Local Government Finance Subtotal	3 3 3 3	0 0 0 0	0 0 0 0	0 0 0 0	3 3 3 3 (15)		
Sumr	ner Tei	m							
CIS MAT	110 110	Introduction to Computers Math Measurement & Literacy Humanities/Fine Arts** Subtotal	2 2	2	0	0	3 3 (9)		
Fall S	emest	er							
FIP FIP FIP	146 230 276	Fire Protection Systems Chem of Hazardous Mat I Managing Fire Services Major Course Elective*** Subtotal	3 5 3	2 0 0	0 0 0	0 0 0 (15	4 5 3 3-4 5-16)		
Sprin	g Sem	ester							
FIP FIP FIP PSY	164 221 240 150	OSHA Standards Adv Fire Fighting Strategies Fire Service Supervision General Psychology Major Course Elective*** Subtotal	3 3 3 3	0 0 0	0 0 0 0	0 0 0 0 (15	3 3 3 3-4 5-16)		

^{**}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:							
EPT	120	Sociology of Disaster	3	0	0	0	3
EPT	130	Mitigation & Preparedness	3	0	0	0	3
EPT	140	Emergency Management	3	0	0	0	3
EPT	150	Incident Management	3	0	0	0	3
EPT	210	Response & Recovery	3	0	0	0	3
EPT	220	Terrorism & Emer. Mgt.	3	0	0	0	3
EPT	275	Emergency Ops Center Mgt.	3	0	0	0	3
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 Program67-69

Fire Protection Technology (D55240) Diploma

your p	our program advisor.			Class Lab Clinic		Work Exp.		
Fall S	emest	er						
ACA FIP FIP FIP FIP	115 120 124 128 146 276	Success and Study Skill Intro to Fire Protection Fire Prevention and Public Edu Detection and Investigation Fire Protection Systems Managing Fire Services Subtotal	0 3 3 3 3 3	2 0 0 0 2	0 0 0 0 0	0 0 0 0 0	1 3 3 4 3 (17)	
Sprin	Spring Semester							
FIP FIP FIP FIP FIP	132 152 220 221 228 240	Building Construction Fire Protection Law Fire Fighting Strategies Adv Firefighting Strategies Local Government Finance Fire Service Supervision Subtotal	3 3 3 3 3	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	3 3 3 3 3 (18)	
Sumn	ner Ter	m						
MAT ENG	110 111	Math Measurement & Literacy Writing and Inquiry Subtotal	2	0	0	0	3 3 (6)	
Total Semester Credit Hours in Program41								

Fire Protection Technology (C55240) Certificate

your	your program advisor.			Class Lab Clinic			Work Credit Exp.		
Fall Semester									
FIP	120	Intro to Fire Protection	3	0	0	0	3		
FIP	124	Fire Prevention and Public Edu Subtotal	3	0	0	0	3 (6)		
Sprir	ng Sem	ester							
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 Program18									

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 Credit
		Exn

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)

(00100	J. O 3011	noster orealt flours from the follow	v II 19,	,			
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

(Selec	ct 3 ser	nester credit hours from the follow	wing))			
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

СОМ	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

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.

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 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
		Math Elective*					3-4
		Social/Behavioral Science Elec	tive*	k			3
		Humanities Elective**					3
		Subtotal				(16	6-17)

48-49 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.

^{*}Math Elective may include any Mathematics course (100 level or higher).

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

Health Science: Therapeutic and Diagnostic Services

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) Diploma

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 S	emeste	er					
ACA BIO EMS HSC MED	115 165 110 110 120	Success and Study Skills Anatomy and Physiology I EMT Orientation to Health Careers Survey of Medical Terminology Subtotal	0 3 6 1 2	2 3 6 0	0 0 0 0	0 0 0 0	1 4 8 1 2 (16)
Sprin	g Seme	ester					
BIO EMS EMS ENG PSY	166 120 121 111 150	Anatomy and Physiology II Advanced EMT AEMT Clinical Practicum I Writing and Inquiry General Psychology Subtotal	3 4 0 3 3	3 6 0 0	0 0 6 0	0 0 0 0	4 6 2 3 3 (18)
Sumn	ner Ter	m					
ENG MAT	114 110	Prof Research and Reporting Math Measurement & Literacy Subtotal	3 2	0 2	0	0	3 3 (6)
	_						

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' posthigh 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	Credit
				Evn	

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
ENG	241	British Literature I	3	0	0	0	3
ENG	242	British 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)

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

*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 n	iust 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
ENG	241	British Literature I	3	0	0	0	3
ENG	242	British 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)			
NA - (I.)	Made and the Collections of the Collection									

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
MAT	272	Calculus II Subtotal	3	2	0	0	4 (8

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

follow	ing.)						
BIO	111	General Biology I	3	3	0	0	4
BIO	And 112	General Biology II	3	3	0	0	4
5.0	Or	Contrar Biology II	Ü	Ü	Ü		•
CHM	151	General Chemistry I	3	3	0	0	4
СНМ	And 152	General Chemistry II	3	3	0	0	4
· · · · · ·	Or	Concrat Chemically II	Ū		Ü		•
PHY	151	College Physics I	3	2	0	0	4
DLIV	And	Outleas Dissels II	_	_	^	^	
PHY	152	College Physics II Subtotal	3	2	0	0	4 (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	-	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
ENG	111	Writing and Inquiry	3	0	0	0	3
MAT	110	Math Measurement & Literacy	2	2	0	0	3
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

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

Total Semester Credit Hours in Program39

		(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	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 Program16

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
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	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

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	120	Basic Transport Electricity	4	3	0	0	5

Total Semester Credit Hours in Program16

Automotive Systems Technology Diploma – CCP (D60160P)

			Class	Lab	Clinic	Work (Exp.	Credit
ACA	115	Success and Study Skills	0	2	0	0	1
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	111	Chassis Maint/Light Repair	2	6	0	0	4
TRN	112	Powertrain Maint/Light Repair	2	6	0	0	4
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

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

Total Semester Credit Hours in Program48

			Ciass	Lab	OIIIIIO	Exp.	Jiedit
TRN	112	Powertrain Maint/Light Repair	2	6	0	0	4
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

Total Semester Credit Hours in Program18

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	111	Chassis Maint/Light Repair	2	6	0	0	4
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 Program17

Automotive Systems Technology – Auto MAST Level I Certificate – CCP (C60160NP)

			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	111	Chassis Maint/Light Repair	2	6	0	0	4
TRN	130	Intro to Sustainable Trans	2	2	0	0	3
TRN	170	PC Skills for Transport	1	2	0	0	2

Total Semester Credit Hours in Program17

Automotive Systems Technology – Auto MAST Level II Certificate – CCP (C60160EP)

(00		<i>7</i> ,	Class	Lab	Clinic	Work (Exp.	Credit
AUT	181	Engine Performance 1	2	3	0	0	3
AUT	181A	Engine Performance 1 Lab*	0	3	0	0	1
TRN	112	Powertrain Maint/Light Repair	2	6	0	0	4
TRN	120	Basic Transport Electricity	4	3	0	0	5
TRN	180	Basic Welding for Transport	1	4	0	0	3

Total Semester Credit Hours in Program16

Business Administration Certificate – CCP (C25120P)

SS I	_ab (Jinic	Exp.	redit
	0	0	0	3
	0	0	0	3
	0	0	0	3
	0	0	0	3
	0	0	0	3
		0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0 0 0

Total Semester Credit Hours in Program15

Collision Repair and Refinishing Technology Diploma – CCP (D60130P)

Class Lab Clinic Work Credit

						Exp.	
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	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	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

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

			Class Lab Clinic		Exp.		
ALID	444	Deinting and Definishing I	0	_	0		
AUB	111	Painting and Refinishing I		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 & Adhesives	1	4	0	0	3
AUB	162	Autobody Estimating	1	2	0	0	2
TRN	170	PC Skills for Transport	1	2	0	0	2

Total Semester Credit Hours in Program18

Computer-Integrated Machining Diploma – CCP (D50210P)

00.	(5)	Class Lab Clinic V				Work Credit Exp.	
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	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	141	Machining Applications I	2	6	0	0	4
MAC	141A	Machining Appl I Lab	0	6	0	0	2
MAC	142	Machining Applications II	2	6	0	0	4
MAC	142A	Machining Appl II Lab	0	6	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 Program38

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

(00021011)			Class Lab Clinic Work Credit Exp.						
	BPR	111	Print Reading	1	2	0	0	2	
	MAC	121	Intro to CNC	2	0	0	0	2	
	MAC	122	CNC Turning	1	3	0	0	2	
	MAC	141	Machining Applications I	2	6	0	0	4	
	MAC	141A	Machining Appl I Lab	0	6	0	0	2	
	MAC	142	Machining Applications II	2	6	0	0	4	
	MAC	142A	Machining Appl II Lab	0	6	0	0	2	

Total Semester Credit Hours in Program18

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	121	Intro to CNC	2	0	0	0	2
MAC	124	CNC Milling	1	3	0	0	2
MAC	141	Machining Applications I	2	6	0	0	4
MAC	141A	Machining Appl I Lab	0	6	0	0	2
MAC	142	Machining Applications II	2	6	0	0	4
MAC	142A	Machining Appl II Lab	0	6	0	0	2

Total Semester Credit Hours in Program18

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

(00		, —, ,	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	141	Machining Applications I	2	6	0	0	4
MAC	141A	Machining Appl I Lab	0	6	0	0	2
MAC	142	Machining Applications II	2	6	0	0	4
MAC	142A	Machining Appl II Lab	0	6	0	0	2
MAC	151	Machining Calculations	1	2	0	0	2

Total Semester Credit Hours in Program18

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

(00		,	Class Lab Clinic			Work Credit Exp.	
AUT	116	Engine Repair	2	3	0	0	3
AUT	116A	Engine Repair Lab*	0	3	0	0	1
MAC	141	Machining Applications I	2	6	0	0	4
MAC	141A	Machining Appl I Lab	0	6	0	0	2
MAC	142	Machining Applications II	2	6	0	0	4
MAC	142A	Machining Appl II Lab	0	6	0	0	2
MAC	151	Machining Calculations	1	2	0	0	2

Total Semester Credit Hours in Program18

Criminal Justice Technology - Criminal Justice I 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 Program13

Criminal Justice Technology - Criminal Justice II Certificate - CCP (C55180CP)

			Class	Lab	Work Credit Exp.		
CJC	112	Criminology	3	0	0	0	3
CJC	121	Law Enforcement Ops	3	0	0	0	3
CJC	141	Corrections	3	0	0	0	3
CJC	231	Constitutional Law	3	0	0	0	3

Class Lab Clinic Work Credit

Criminal Justice Technology - Latent
Evidence Diploma – CCP (D5518AP)

			Class	Lab	Clinic	Work (Exp.	Credit
ACA	115	Success and Study Skills	0	2	0	0	1
ART	111	Art Appreciation	3	0	0	0	3
CIS	110	Introduction to Computers	2	2	0	0	3
COM	231	Public Speaking	3	0	0	0	3
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 Ops	3	0	0	0	3
CJC	122	Community Policing	3	0	0	0	3
CJC	131	Criminal Law	3	0	0	0	3
CJC	144	Crime Scene Processing	2	3	0	0	3
CJC	221	Investigative Principles	3	2	0	0	4
CJC	231	Constitutional Law	3	0	0	0	3

Total Semester Credit Hours in Program38

Criminal Justice Technology - Latent Evidence - Latent Evidence I Certificate - CCP (C5518AAP)

	Class	Lab	Work Credit Exp.		
Intro to Criminal Justice	3	0	0	0	3
Criminal Law	3	0	0	0	3
Court Procedure & Evidence	3	0	0	0	3
Investigative Principles	3	2	0	0	4
1	Intro to Criminal Justice Criminal Law Court Procedure & Evidence Investigative Principles	1 Intro to Criminal Justice 3 1 Criminal Law 3 2 Court Procedure & Evidence 3	1 Intro to Criminal Justice 3 0 1 Criminal Law 3 0 2 Court Procedure & Evidence 3 0	1 Intro to Criminal Justice 3 0 0 1 Criminal Law 3 0 0 2 Court Procedure & Evidence 3 0 0	1 Intro to Criminal Justice 3 0 0 0 1 Criminal Law 3 0 0 0 2 Court Procedure & Evidence 3 0 0

Total Semester Credit Hours in Program13

Criminal Justice Technology - Latent Evidence - Latent Evidence II Certificate - CCP (C5518ABP)

			Class	Work Credit Exp.			
CJC	144	Crime Scene Processing	2	3	0	0	3
CJC	121	Law Enforcement Ops	3	0	0	0	3
CJC	122	Community Policing	3	0	0	0	3
CJC	231	Constitutional Law	3	0	0	0	3

Total Semester Credit Hours in Program12

Education–Infant and Toddler Certificate – CCP (C55290P)

			Class Lab Clinic			Work Credit Exp.		
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 Program16

Education–Preschool Certificate – CCP (C55220PP)

			Class	Lau	CIIIIC	Exp.	Jieuit
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	n 1	3	0	0	2

Total Semester Credit Hours in Program18

Electronics Engineering Technology

Diploma – CCP (D40200P)

Class Lab Clinic Work Credit

						Exp.	
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 Program38

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 Program17

Film and Video Production Technology Certificate – CCP (C30140P)

			Class Lab Clinic Work Credit					
						Exp.		
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	

Fire Protection Technology Diploma – CCP (D55240P)

•		•	Class Lab Clinic		Clinic	Work Credi Exp.	
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 Program41

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 Program18

Interpreter Education Certificate – CCP (C55300P)

•		•	Clas	s 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 Program18

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 Program39

Mechanical Engineering Technology Certificate – CCP (C40320P) Class Lab Clinic Work Credit

			J.400		0	Exp.	····
DFT	170	Engineering Graphics	2	2	0	0	3
EGR	150	Introduction to Engineering	1	2	0	0	2
EGR	250	Statics and Strength of Materials	s 4	3	0	0	5
MAT	121	Algebra/Trigonometry I	2	2	0	0	3
PHY	131	Physics-Mechanics	3	2	0	0	4

Total Semester Credit Hours in Program17

Class Lab Clinic Work Credit

Mechatronics Engineering Technology Diploma – CCP (D40350P)

						Exp.	
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 Program41

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 Program15

Mechatronics Engineering Technology - Maintenance Certificate – CCP (C40350MP)

			Class	Lab	Clinic	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

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	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
WLD	141	Symbols and Specifications	2	2	0	0	3
WLD	151	Fabrication I	2	6	0	0	4
WLD	265	Automated Welding/Cutting	2	6	0	0	4

Total Semester Credit Hours in Program39

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

(666 1262)			Class Lab Clinic Work Credit Exp.						
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		
WLD	141	Symbols & Specifications	2	2	0	0	3		

Total Semester Credit Hours in Program18

Welding Technology – Industrial Welding Certificate – CCP (C50420IP)

			Class	Lau	CIIIIIC	Exp.	Jieuii
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
WLD	212	Inert Gas Welding	1	3	0	0	2

Class Lab Clinic Work Credit

Total Semester Credit Hours in Program15

Welding Technology – Industrial Maintenance

Certificate - CCP (C50420MP)

		Class	Lab	Clinic	Work (Exp.	Credit
110	Cutting Processes	1	3	0	0	2
112	Basic Welding Processes	1	3	0	0	2
117	Industrial SMAW	1	4	0	0	3
121	GMAW (MIG) FCAW/Plate	2	6	0	0	4
141	Symbols & Specifications	2	2	0	0	3
	112 117 121	112 Basic Welding Processes117 Industrial SMAW121 GMAW (MIG) FCAW/Plate	110 Cutting Processes 1 112 Basic Welding Processes 1 117 Industrial SMAW 1 121 GMAW (MIG) FCAW/Plate 2	110 Cutting Processes 1 3 112 Basic Welding Processes 1 3 117 Industrial SMAW 1 4 121 GMAW (MIG) FCAW/Plate 2 6	110 Cutting Processes 1 3 0 112 Basic Welding Processes 1 3 0 117 Industrial SMAW 1 4 0 121 GMAW (MIG) FCAW/Plate 2 6 0	110 Cutting Processes 1 3 0 0 112 Basic Welding Processes 1 3 0 0 117 Industrial SMAW 1 4 0 0 121 GMAW (MIG) FCAW/Plate 2 6 0 0

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.

		n advisor.	see p	age	40 C	n spe	ak lo
your p	nogran	radvisor.	Class	Lab	Clinic	Work Exp.	Credit
Fall S	emeste	er					
ACA	115	Success and Study Skills	0	2	0	0	1
HOR	112	Landscape Design I	2	3	0	0	3
HOR	124 Or	Nursery Operations	2	3	0	0	3
HOR	134	Greenhouse Operations	2	2	0	0	3
HOR		Plant Materials I	2	2	0	0	3 3
HOR	162	Applied Plant Science	2	2	0	0	
HOR	168	Plant Propagation	2	2	0	0	3
		Subtotal					(16)
Sprin	g Sem	ester					
ENG	111	Writing and Inquiry	3	0	0	0	3
HOR		Plant Materials II	2	2	0	0	3 3 3 3
HOR		Soils and Fertilizers	2	2	0	0	3
HOR	235	Greenhouse Production	2	2	0	0	3
		Social/Behavioral Science Elec	tive**				
		Subtotal					(15)
Sumn	ner Ter	m					
HOR		Horticultural Practices	0	3	0	0	1
HOR		Horticulture Pest Mgt	2	2	0	0	3
HOR		Advanced Plant Materials	1	2	0	0	2
MAT	110	Math Measurement & Literacy Subtotal	2	2	0	0	3 (9)
		Jubiolai					(3)

Fall S	emeste	er					
AGR	. — .	Biological Pest Mgmt	3	0	0	0	3
COM	231 Or	Public Speaking	3	0	0	0	3
ENG	114	Prof Research and Reporting Major Course Elective*** Subtotal	3	0	0	0	3 9 (15)
Spring	g Seme	ester					
WBL	111	Work-Based Learning I Humanities Elective** Major Course Elective*** Subtotal	0	0	0	10	1 3 9 (13)

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

***Ma	jor Cou	urse Electives are to be selected	from	the	follo	wing:	
AGR	265	Organic Crop Prod: Spring	2	2	0	Ö	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 Program68

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)

(,,,,	OL 11	J11)					
HOR	118	Equipment Op & Maint	1	3	0	0	2
HOR	124	Nursery Operations	2	3	0	0	3
HOR	134	Greenhouse Operations	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

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)

ÀGR	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	Class Lab Clini			Credit
Fall Semest	ter					
ACA 115 HOR 112 HOR 124 Or	Success and Study Skills Landscape Design I Nursery Operations	0 2 2	2 3 3	0 0 0	0 0 0	1 3 3
HOR 134 HOR 160 HOR 162 HOR 168	Greenhouse Operations Plant Materials I Applied Plant Science Plant Propagation Subtotal	2 2 2 2	2 2 2 2	0 0 0	0 0 0 0	3 3 3 (16)
Spring Sem	ester					
ENG 111 HOR 161 HOR 166 HOR 235	Writing and Inquiry Plant Materials II Soils and Fertilizers Greenhouse Production Subtotal	3 2 2 2	0 2 2 2	0 0 0 0	0 0 0 0	3 3 3 (12)
Summer Te	rm					
HOR 152 HOR 164 HOR 265 MAT 110	Horticultural Practices Horticulture Pest Mgt Advanced Plant Materials Math Measurement & Literacy Subtotal	0 2 1 2	3 2 2 2	0 0 0 0	0 0 0 0	1 3 2 3 (9)

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.

Total Semester Credit Hours in Program37

			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	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				
_											
Total	Total Semester Credit Hours in Program17										

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.

your program advisor.									
Class Lab Clinic Wo							Credit		
Requi	red Co	ourses							
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 Program16									
Horticulture – Ornamental Plant Production (C15240H)									

Students may be required to take one or more developmental courses as a result of pre-enrollment placement 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 Credit

					Ехр.	
Required	Courses					
AGR 12	1 Biological Pest Mgmt	3	0	0	0	3
HOR 16	8 Plant Propagation	2	2	0	0	3
HOR 22	5 Nursery Production	2	2	0	0	3
HOR 23	5 Greenhouse Production	2	2	0	0	3
HOR 24	5 Hort Specialty Crops	2	2	0	0	3
HOR 25	7 Arboriculture Practices	1	3	0	0	2

Horticulture – Small Fruits/Specialty Crops (C15240SF)

Total Semester Credit Hours in Program17

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 Credit

			Olass	Lab	Omno	Exp.	Jican
Requ	ired Co	ourses					
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

Information Technology (A25590) Associate in Applied Science Degree

The Information Technology (IT) curriculum prepares graduates for employment in the technology sector as designers, testers, support technicians, system administrators, developers, programmers who use computer software and/or hardware to design, process, implement and manage information systems in specialists such as database services, security, business intelligence, healthcare informatics and others depending in the technical path selected within this curriculum.

Course work includes development os a student's ability to create, store, communicate, exchange, and use information to solve technical issues related to information support and services, interactive media, network systems, programming and software development, information security and other emerging technologies based on the selected area of study.

Graduates should qualify for employment in entry-level positions with business, educational; systems, and governmental agencies which rely on computer systems to design and manage information. The program will incorporate the competencies of 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.

VOUR P	your program advisor.										
your	rogran	radvisor.	Class	Lab	Clinic	Work Exp.	Credit				
Fall S	emest	er									
ACA CTI CTI ENG	115 110 120 111	Success and Study Skills Web, Pgm & DB Foundation Network & Sec Foundation Writing and Inquiry Degree Pathway courses Subtotal	0 2 2 3	2 2 2 0	0 0 0	0 0 0 0	1 3 3 3 6 (16)				
Sprin	g Sem	ester									
CIS CTS ENG		Introduction to Computers Info Sys Business Concepts Writing and Inquiry Degree Pathway courses Subtotal	2 3 3	2 0 0	0 0 0	0 0 0	3 3 3 6 (15)				
Sumr	ner Ter	m									
CTS	130 Either	Spreadsheet	2	2	0	0	3				
MAT	143 Or	Quantitative Literacy	2	2	0	0	3				
MAT	171	Precalculus Algebra Subtotal	3	2	0	0	4 (6-7)				
Fall S	emest	er									
CTS	240 Either	Project Management	2	2	0	0	3				
NOS	120 Or	Linux/UNIX Single User	2	2	0	0	3				
NOS NOS	125 130	Linux/Unix Scripting Windows Single user Degree Pathway course Social/Behavioral Science Elec Subtotal	2 2 ctive**	2 2	0	0	3 3 3 (15)				

Spring Semester

WBL	111	Work-Based Learning I	0	0	0	10	1
		Humanities Elective**					3
		Degree Pathway courses					6
		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:

***Ma	jor Cou	irse Electives are to be selected t	rom	the	tollo	wing:	
BUS	110	Introduction to Business	3	0	0	Ö	3
BUS	228	Business Statistics	2	2	0	0	3
BUS	240	Business Ethics	3	0	0	0	3
CIS	115	Intro to Prog & Logic	2	3	0	0	3
CSC	121	Python Programming	2	3	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
CSC	234	Advanced C++ Programming	2	3	0	0	3
CSC	251	Advanced JAVA Programming	2	3	0	0	3
CTS	120	Hardware/Software Support	2	3	0	0	3
CTS	155	Tech Support Functions	2	2	0	0	3
CTS	220	Adv Hard/Software Support	2	3	0	0	3
CTS	225	Spreadsheet Data Analysis	2	2	0	0	3
NET	125	Introduction to Networks	1	4	0	0	3
NET	126	Routing Basics	1	4	0	0	
NET	225	Routing & Switching I	1	4	0	0	3
NET	226	Routing and Switching II	1	4	0	0	3
NET	241	Introduction to VOIP	2	3	0	0	3
NOS	125	Linux/Unix Scripting	2	2	0	0	3
NOS	220	Linux/Unix Admin I	2	2	0	0	3
NOS	230	Windows Administration I	2	2	0	0	3
SEC	110	Security Concepts	2	2	0	0	3
SEC	150	Secure Communications	2	2	0	0	3
SEC	160	Security Administration I	2	2	0	0	3
WEB	115	Web Markup and Scripting	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	214	Social Media	2	2	0	0	3
WEB	215	Adv Markup and Scripting	2	2	0	0	3
WEB	250	Database Driven Websites	2	2	0	0	3

Total Semester Credit Hours in Program65-66

Students should select one of the following Degree Pathways:

Computer Programming & Development Pathway (A25590PR)

Fall S	emest	er					
CIS	115	Intro to Prog & Logic	2	3	0	0	3
CSC	151	JAVA Programming	2	3	0	0	3
CSC	234	Advanced C++ Programming	2	3	0	0	3
Sprin	g Sem	ester					
CSC	134	C++ Programming	2	3	0	0	3
CSC	153	C# Programming	2	3	0	0	3
CSC	251	Advanced. JAVA Programming	2	3	0	0	3
CSC	289	Programming Capstone Project	1	4	0	0	3

Network Management Pathway (A25590NE)

Fall Semester

NET	125	Introduction to Networks	1	4	0	0	3			
NET	225	Routing & Switching I	1	4	0	0	3			
SEC	160	Security Administration I	2	2	0	0	3			
Spring Semester										
NET	126	Routing Basics	1	4	0	0	3			
NET	226	Routing and Switching II	1	4	0	0	3			
NOS	220	Linux/Unix Admin I	2	2	0	0	3			
NOS	230	Windows Administration I	2	2	Ω	Ω	3			

Support and Services Pathway (A25590SS)

Fall Semester

CIS	115	Intro to Prog & Logic	2	3	0	0	3
CTS	120	Hardware/Software Support	2	3	0	0	3
CTS	155	Tech Support Functions	2	2	0	0	3
CTS	250	User Support & Software Eval	2	2	0	0	3
Sprin	g Sen	nester					
CTS	220	Adv Hard/Software Support	2	3	0	0	3
CTS	255	Adv Tech Support Functions	2	2	0	0	3
NOS	230	Windows Administration I	2	2	0	0	3

Web Administration and Design Pathway (A25590WA)

Fall Semester

CIS	115	Intro to Prog & Logic	2	3	0	0	3
WEB	115	Web Markup and Scripting	2	2	0	0	3
WEB	182	PHP Programming	2	2	0	0	3
Spring	g Seme	ester					
WEB	180	Active Server Pages	2	2	0	0	3
WEB	214	Social Media	2	2	0	0	3
WEB	215	Adv Markup and Scripting	2	2	0	0	3
WFB	250	Database Driven Websites	2	2	Ω	0	3

Information Technology Diplomas and Certificates Computer Programming (D25590PR)

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					
						Exp		
Fall S	emest	er						
ACA	115	Success and Study Skills	0	2	0	0	1	
CIS	115	Intro to Prog & Logic	2	3	0	0	3	
CSC	151	JAVA Programming	2	3	0	0	3	
CTI	110	Web, Pgm & DB Foundation	2	2	0	0	3	
CTI	120	Network & Sec Foundation	2	2	0	0	3	
ENG	111	Writing and Inquiry	3	0	0	0	3	
		Subtotal					(16)	
Sprin	g Sem	ester						
CIS	110	Introduction to Computers	2	2	0	0	3	
CTS	115	Info Sys Business Concepts	3	0	0	0	3	
CSC	134	C++ Programming	2	3	0	0	3	
CSC	153	C# Programming	2	3	0	0	3	
CSC	251	Adv JAVA Programming	2	3	0	0	3	
		Subtotal					(15)	

Fall S	emeste	er					
CSC	234	Adv. C++ Programming	2	3	0	0	3
	Either						
MAT	143	Quantitative Literacy	2	2	0	0	3
	Or						
MAT	171	Precalculus Algebra	3	2	0	0	4
WEB	115	Web Markup and Scripting	2	2	0	0	3
		Subtotal				(9	-10)

Total Semester Credit Hours in Program40-41

System Support (D25590SS) Diploma

) o u. p	. og.a	. 44.100.1	Class	Lab	Clinic	Work Exp.	Credit
Fall S	emeste	er					
ACA CTI CTI CTS CTS ENG	115 110 120 120 155 111	Success and Study Skills Web, Pgm & DB Foundation Network & Sec Foundation Hardware/Software Support Tech Support Functions Writing and Inquiry Subtotal	0 2 2 2 2 3	2 2 2 3 2 0	0 0 0 0 0	0 0 0 0 0	1 3 3 3 3 (16)
Spring	g Seme	ester					
CIS CTS CTS CTS NOS	110 115 220 255 230	Introduction to Computers Info Sys Business Concepts Adv Hard/Software Support Adv Tech Support Functions Windows Administration I Subtotal	2 3 2 2 2	2 0 3 2 2	0 0 0 0	0 0 0 0	3 3 3 3 (15)
Fall S	emeste	er					
NOS	Either 120 Or	Linux/UNIX Single User	2	2	0	0	3
NOS	125	Linux/Unix Scripting	2	2	0	0	3
NOS	130 Either	Windows Single user	2	2	0	0	3
MAT	143 Or	Quantitative Literacy	2	2	0	0	3
MAT	171	Precalculus Algebra Subtotal	3	2	0	0	4 9-10)
Total	Seme	ster Credit Hours in Progr	am			4	0-41

Computer Programming (C25590PR) 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.

, ,	Ü		Class	Lab	Clinic	Work Exp.	Credit
Fall S	emest	er					
CIS	110	Introduction to Computers	2	2	0	0	3
CIS	115	Intro to Prog & Logic	2	3	0	0	3
CSC	151	JAVA Programming Subtotal	2	3	0	0	3 (9)
Sprin	g Sem	ester					
CSC	134	C++ Programming	2	3	0	0	3
CSC	153	C# Programming	2	3	0	0	3
CTS	130	Spreadsheet Subtotal	2	2	0	0	3 (9)

Total Semester Credit Hours in Program18

Operating System Administration (C25590OS)

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.

vour r	rogran	n advisor.	· '	Ü		•	
your	, rogian	r davioon	Class	Lab	Clinic	Work Exp.	Credit
Fall S	emest	er					
CTI	120	Network & Sec Foundation	2	2	0	0	3
NOS	120	Linux/UNIX Single User	2	2	0	0	3
NOS	130	Windows Single user	2	2	0	0	3
SEC	160	Security Administration I	2	2	0	0	3
		Subtotal					(12)
Sprin	g Sem	ester					
NOS	220	Linux/Unix Admin I	2	2	0	0	3
NOS	230	Windows Administration I	2	2	0	0	3
		Subtotal					(6)
Total	Seme	ester Credit Hours in Prog	gram				18

Routing and Switching (C25590RS) 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.

you. p	rogian		Class	Lab	Clinic	Work Exp.	Credit
Fall S	emest	er					
CTI	120	Network & Sec Foundation	2	2	0	0	3
NET	125	Introduction to Networks	1	4	0	0	3
NET	225	Routing & Switching I	1	4	0	0	3
		Subtotal					(9)
Sprin	g Sem	ester					
NET	126	Routing Basics	1	4	0	0	3
NET	226	Routing and Switching II	1	4	0	0	3
NET	241	Introduction to VOIP Subtotal	2	3	0	0	3 (9)

Total Semester Credit Hours in Program18

System Security (C25590SE) Certificate

your p	orogran	n advisor.	Class	Lab	Work Credit Exp.							
Fall Semester												
CTI	120	Network & Sec Foundation	2	2	0	0	3					
NET	125	Introduction to Networks	1	4	0	0	3					
SEC	110	Security Concepts	2	2	0	0	3					
SEC	160	Secure Administration I	2	2	0	0	3					
		Subtotal					(12)					
Sprin	g Sem	ester										
SEC	150	Secure Communications	2	2	0	0	3					
NOS	230	Windows Administration I	2	2	0	0	3					
		Subtotal					(6)					
Total Semester Credit Hours in Program18												

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.

vour program	your program advisor.							
your program	ir davisor.	Class	Lab	Clinic	Work Exp.	Credit		
Fall Semest	er							
ACA 115 ASL 111 ASL 112 ASL 181 ASL 182 ASL 225 IPP 111	Success and Study Skills Elementary ASL I Elementary ASL II ASL Lab I ASL Lab 2 Global Deaf Community Introduction to Interpretation Subtotal	0 3 3 0 0 3 3	2 0 0 2 2 0 0	0 0 0 0 0 0	0 0 0 0 0 0	1 3 3 1 1 3 3 (15)		
Spring Sem	ester							
ASL 250 ASL 281 ENG 111 IPP 112	Intermediate ASL I Linguistics of ASL ASL Lab 3 Writing and Inquiry Comparative Cultures Subtotal	3 0 3 3	0 0 2 0 0	0 0 0 0	0 0 0 0	3 1 3 3 (13)		
Summer Te	rm							
ASL 212 ASL 282 ENG 112 Or	Intermediate ASL II ASL Lab 4 Writing/Research in the Discip	3 0 1 3	0 2 0	0 0 0	0 0 0	3 1 3		
ENG 114 IPP 152	Prof. Research and Reporting ASL/English Translation Humanities Elective** Subtotal	3	0	0	0	3 3 3 (13)		
Fall Semest	er							
ASL 221 ASL 222 IPP 161 MAT 143	Advanced ASL I Advanced ASL II Consecutive Interpreting Quantitative Literacy Social/Behavioral Science Elec Subtotal	3 2 2 ctive**	0 0 6 2	0 0 0 0	0 0 0 0	3 5 3 3 (17)		

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.

***Maj	**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 Program71

Interpreter Education (D55300) Diploma

your p	our program advisor.			Class Lab Clinic			Work Credit Exp.				
Fall S	emeste	er									
ACA ASL ASL ASL ASL IPP	115 111 112 181 182 225 111	Success and Study Skills Elementary ASL I Elementary ASL II ASL Lab I ASL Lab 2 Global Deaf Community Introduction to Interpretation Subtotal	0 3 3 0 0 3 3	2 0 0 2 2 0 0	0 0 0 0 0 0	0 0 0 0 0 0	1 3 3 1 1 3 3 (15)				
Spring ASL ASL ASL ENG IPP	211 250 281 111 112	Intermediate ASL I Linguistics of ASL ASL Lab 3 Writing and Inquiry Comparative Cultures Subtotal	3 3 0 3 3	0 0 2 0 0	0 0 0 0	0 0 0 0	3 3 1 3 3 (13)				
Sumn	ner Ter	m									
ASL ASL IPP MAT	212 282 152 143	Intermediate ASL II ASL Lab 4 ASL/English Translation Quantitative Literacy Subtotal	3 0 3 2	0 2 0 2	0 0 0 0	0 0 0 0	3 1 3 3 (10)				
Total	Total Semester Credit Hours in Program38										

Interpreter Education (C55300) Certificate

			Cillic	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	•	Ü	•	•	(11)							
Cubicital					(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 Program18												

3

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.

your p	our program advisor.			Lab	Clinic	Work Credit Exp.		
Fall S	emest	er						
ACA	115 Or	Success and Study Skills	0	2	0	0	1	
ACA	122	College Transfer Success	0	2	0	0	1	
DFT	170	Engineering Graphics	2	2	0	0	3	
EGR	111 Or	Engineer Comp and Careers	2	2	0	0	3	
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 Or	Algebra/Trigonometry I	2	2	0	0	3	
MAT	171	Precalculus Algebra Subtotal	3	2	0	0 (16	4 -18)	
Sprin	g Sem	ester						
COM DFT	231 154	Public Speaking Intro Solid Modeling	3	0 3	0	0	3	
EGR	125	Appl Software for Tech	1	2	0	0	2	
MAT	122 Or	Algebra/Trigonometry II	2	2	0	0	3	
MAT	172	Precalculus Trigonometry	3	2	0	0	4	
MEC	145	Mfg. Materials I Subtotal	2	3	0	0 (14	3 -15)	

Sumr	ner Tei	·m								
ENG	114	Professional Research/Report	3	0	0	0	3			
ISC	112	Industrial Safety	2	0	0	0	2			
		Major Course Elective***					2-3			
		Subtotal					(7-8)			
Fall Semester										
EGR	250	Statics and Strength of Materials	4	3	0	0	5			
ELC	128	Intro to PLC	2	3	0	0	3			
	110	Hydraulics/Pneumatics	2	3	0	0	3			
PHY		Physics – Mechanics	3	2	0	0	4			
5107	Or	0 II DI I I	_	_	_					
PHY	151	College Physics I	3	2	0	0	4			
		Major Course Electives*** Subtotal				(1	2-3 7-18)			
		Subtotal				(1)	(-10)			
Sprin	g Sem	ester								
EGR	130	Engineering Cost Control	2	2	0	0	3			
HYD	121	Hydraulics/Pneumatics II	1	3	0	0	2			
MEC		Fund of Machine Design	2	-	0	0	3			
MEC	276	Capstone Design Project	0	3	0	0	1			
		Humanities Elective**					3			
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.

***Maj	or Co	urse Electives a	are to be	selected	from	the	follow	ing
(Minin	num 5	credits required	d):					
BUS	110	Introduction to	o Busine	SS	3	0	0	0

DOO	110	introduction to Dusiness	J	U	U	U	J
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
LOG	110	Introduction to Logistics	3	0	0	0	3
LOG	125	Transportation Logistics	3	0	0	0	3
LOG	215	Supply Chain Management	3	0	0	0	3
MAC	121	Intro to CNC	2	0	0	0	2
MAC	141	Machining Applications I	2	6	0	0	4
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
PLA	110	Introduction to Plastics	2	0	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	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
	DFT ISC LOG LOG MAC MAC MAT MEC MEC PLA WBL	CHM 151 DFT 151 ISC 132 LOG 110 LOG 125 LOG 215 MAC 121 MAC 141 MAT 152 MAT 271 MEC 110 MEC 111 MEC 155 PLA 110 WBL 111 WBL 112 WBL 113 WBL 114 WBL 121 WBL 122 WBL 131 WBL 132 WBL 211 WBL 212 WBL 211 WBL 212 WBL 211	CHM 151 General Chemistry DFT 151 CAD I ISC 132 Mfg Quality Control LOG 110 Introduction to Logistics LOG 125 Transportation Logistics LOG 215 Supply Chain Management MAC 121 Intro to CNC MAC 141 Machining Applications I MAT 152 Statistical Methods I MAT 271 Calculus I MEC 110 Introduction to CAD/CAM MEC 111 Machine Processes I MEC 155 Environmental Benign Mfg PLA 110 Introduction to Plastics WBL 111 Work-Based Learning I WBL 112 Work-Based Learning I WBL 113 Work-Based Learning II WBL 121 Work-Based Learning II WBL 131 Work-Based Learning III WBL 131 Work-Based Learning III WBL 132 Work-Based Learning III WBL 131 Work-Based Learning III WBL 132 Work-Based Learning III WBL 211 Work-Based Learning III WBL 211 Work-Based Learning III WBL 211 Work-Based Learning III WBL 212 Work-Based Learning III WBL 213 Work-Based Learning III WBL 214 Work-Based Learning III WBL 215 Work-Based Learning III WBL 216 Work-Based Learning III WBL 217 Work-Based Learning III WBL 218 Work-Based Learning III WBL 219 Work-Based Learning III WBL 211 Work-Based Learning III WBL 212 Work-Based Learning III WBL 213 Work-Based Learning III WBL 214 Work-Based Learning III WBL 215 Intert Gas Welding	CHM 151 General Chemistry 3 DFT 151 CAD I 2 ISC 132 Mfg Quality Control 2 LOG 110 Introduction to Logistics 3 LOG 125 Transportation Logistics 3 LOG 215 Supply Chain Management 3 MAC 121 Intro to CNC 2 MAC 141 Machining Applications I 2 MAT 152 Statistical Methods I 3 MAT 271 Calculus I 3 MEC 110 Introduction to CAD/CAM 1 MEC 111 Machine Processes I 1 MEC 155 Environmental Benign Mfg 2 PLA 110 Introduction to Plastics 2 WBL 111 Work-Based Learning I 0 WBL 112 Work-Based Learning I 0 WBL 113 Work-Based Learning I 0 WBL 131	CHM 151 General Chemistry 3 3 DFT 151 CAD I 2 3 ISC 132 Mfg Quality Control 2 3 LOG 110 Introduction to Logistics 3 0 LOG 125 Transportation Logistics 3 0 LOG 215 Supply Chain Management 3 0 MAC 121 Intro to CNC 2 0 MAC 141 Machining Applications I 2 6 MAT 152 Statistical Methods I 3 2 MAT 271 Calculus I 3 2 MEC 110 Introduction to CAD/CAM 1 2 MEC 111 Machine Processes I 1 4 MEC 155 Environmental Benign Mfg 2 2 PLA 110 Introduction to Plastics 2 0 WBL 111 Work-Based Learning I 0 0 <td>CHM 151 General Chemistry 3 3 0 DFT 151 CAD I 2 3 0 ISC 132 Mfg Quality Control 2 3 0 LOG 110 Introduction to Logistics 3 0 0 LOG 125 Transportation Logistics 3 0 0 LOG 215 Supply Chain Management 3 0 0 MAC 121 Intro to CNC 2 0 0 MAC 121 Intro to CNC 2 0 0 MAT 152 Statistical Methods I 3 2 0 MAT 271 Calculus I 3 2 0 MEC 110 Introduction to CAD/CAM 1 2 0 MEC 111 Machine Processes I 1 4 0 MEC 155 Environmental Benign Mfg 2 2 0 WBL</td> <td>CHM 151 General Chemistry 3 3 0 0 DFT 151 CAD I 2 3 0 0 ISC 132 Mfg Quality Control 2 3 0 0 LOG 110 Introduction to Logistics 3 0 0 0 LOG 125 Transportation Logistics 3 0 0 0 LOG 215 Supply Chain Management 3 0 0 0 MAC 121 Intro to CNC 2 0 0 0 MAC 141 Machining Applications I 2 6 0 0 MAT 152 Statistical Methods I 3 2 0 0 MAT 271 Calculus I 3 2 0 0 MEC 110 Introduction to CAD/CAM 1 2 0 0 MEC 111 Machine Processes I 1 4 <t< td=""></t<></td>	CHM 151 General Chemistry 3 3 0 DFT 151 CAD I 2 3 0 ISC 132 Mfg Quality Control 2 3 0 LOG 110 Introduction to Logistics 3 0 0 LOG 125 Transportation Logistics 3 0 0 LOG 215 Supply Chain Management 3 0 0 MAC 121 Intro to CNC 2 0 0 MAC 121 Intro to CNC 2 0 0 MAT 152 Statistical Methods I 3 2 0 MAT 271 Calculus I 3 2 0 MEC 110 Introduction to CAD/CAM 1 2 0 MEC 111 Machine Processes I 1 4 0 MEC 155 Environmental Benign Mfg 2 2 0 WBL	CHM 151 General Chemistry 3 3 0 0 DFT 151 CAD I 2 3 0 0 ISC 132 Mfg Quality Control 2 3 0 0 LOG 110 Introduction to Logistics 3 0 0 0 LOG 125 Transportation Logistics 3 0 0 0 LOG 215 Supply Chain Management 3 0 0 0 MAC 121 Intro to CNC 2 0 0 0 MAC 141 Machining Applications I 2 6 0 0 MAT 152 Statistical Methods I 3 2 0 0 MAT 271 Calculus I 3 2 0 0 MEC 110 Introduction to CAD/CAM 1 2 0 0 MEC 111 Machine Processes I 1 4 <t< td=""></t<>

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.

your program	your program advisor.			Class Lab Clinic		
Fall Semest	er					
ACA 115 Or	Success and Study Skills	0	2	0	0	1
ACA 122 CHM 151 DFT 170 EGR 111 MAT 171	College Transfer Success General Chemistry I Engineering Graphics Engineer Comp and Careers Precalculus Algebra Subtotal	0 3 2 2 3	2 3 2 2 2	0 0 0 0	0 0 0 0	1 4 3 3 4 (15)
Spring Sem	ester					
COM 231 DFT 154 MAT 172 MEC 145	Public Speaking Intro Solid Modeling Precalculus Trigonometry Mfg. Materials I Subtotal	3 2 3 2	0 3 2 3	0 0 0	0 0 0 0	3 4 3 (13)
Summer Te	rm					
ENG 111	Writing and Inquiry Major Course Elective*** Subtotal	3	0	0	0	3 4 (7)
Fall Semest	er					
EGR 250 ENG 114 HYD 110 PHY 131	Statics and Strength of Materia Professional Research/Report Hydraulics/Pneumatics Physics – Mechanics	3 2 3	3 0 3 2	0 0 0	0 0 0 0	5 3 3 4
Or PHY 151	College Physics I Subtotal	3	2	0	0	4 (15)
Spring Sem	ester					
MAT 271 MEC 260 MEC 276	Calculus I Fund of Machine Design Capstone Design Project Humanities Elective** Social/Behavioral Science Elective Subtotal	3 2 0 ctive*	2 3 3	0 0 0	0 0 0	4 3 1 3 3 (14)

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

***Ma	jor Cοι	urse Electives are to be selected t	rom	the	follov	wing:	
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	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 Program64

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.

you. p. 08	, a aa	Class	Lab	Clinic	Work Exp.	Credit
Fall Sem	ester					
ACA 11 Or		0	2	0	0	1
ACA 12 DFT 17 EGR 11 Or	0 Engineering Graphics1 Engineer Comp and Careers	0 2 2	2 2 2	0 0 0	0 0 0	1 3 3
EGR 15 ELC 12 ELC 13 MAT 12	8 Intro to PLC 1 Circuit Analysis I 1 Algebra/Trigonometry I	1 2 3 2	2 3 3 2	0 0 0	0 0 0	2 3 4 3
MAT 17		3	2	0	0 (16	4 6-18)
Spring S	emester					
DFT 15 EGR 13 MAT 12 Or	0 Engineering Cost Control 2 Algebra/Trigonometry II	2 2 2	3 2 2	0 0 0	0 0 0	3 3 3
MAT 17 MEC 14 PHY 13	 Precalculus Trigonometry Mfg. Materials I Physics – Mechanics 	3 2 3	2 3 2	0 0 0	0 0 0	4 3 4
PHY 15		3	2	0	0 (16	4 6-17)
Summer	Term					
EGR 12 ENG 11 ISC 11	1 Writing and Inquiry	1 3 2	2 0 0	0 0 0	0 0 0	2 3 2 (7)

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.

*This program of study does not qualify for federal and/or state financial aid.

			Class	Lab	Clinic	Work (Exp.	Credit				
Required Courses											
ACA	115 Or	Success and Study Skills	0	2	0	0	1				
ACA	122	College Transfer Success	0	2	0	0	1				
DFT	170	Engineering Graphics	2	2	0	0	3				
EGR	111 Or	Engineer Comp and Careers	2	2	0	0	3				
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 Or	Algebra/Trigonometry I	2	2	0	0	3				
MAT	171	Precalculus Algebra	3	2	0	0	4				

Total Semester Credit Hours in Program16-18

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

Robot Programming

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 Credit

Lab	CIIIIIC	VVOIR	Cieu
		Exp.	

Fall S	emest	er					
ACA	115 Or	Success and Study Skills	0	2	0	0	1
ACA DFT EGR	122 170 111 Or	College Transfer Success Engineering Graphics Engineer Comp and Careers	0 2 2	2 2 2	0 0 0	0 0 0	1 3 3
EGR ELC ENG MAT	150 131	Introduction to Engineering Circuit Analysis I Writing and Inquiry Algebra and Trigonometry I	1 3 3 2	2 3 0 2	0 0 0	0 0 0 0	2 4 3 3
MAT	171	Pre-calculus Algebra Subtotal	3	2	0	0 (16	4 5-18)
Sprin	g Sem	ester					
ATR EGR ELC MAT		Intro to Automation Appl Software for Tech Motors and Controls Algebra and Trigonometry II	2 1 2 2	3 2 6 2	0 0 0	0 0 0	3 2 4 3
MAT	172	Pre-calculus Trigonometry Humanities Elective** Subtotal	3	2	0	0 (15	4 3 5-16)
Sumn	ner Ter	rm					
ENG ISC	114 112	Prof Research and Reporting Industrial Safety Major Course Elective*** Subtotal	3 2	0	0	0	3 2 2-4 (7-9)

Fall S	Semes	ter
ΔTP	211	P

MEC 276

/////	211	roboti rogramming	_	J	U	U	0
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
PHY	131	Physics – Mechanics	3	2	0	0	4
		Subtotal					(18)
Sprin	g Seme	ester					
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

0 3 0 3

0 1

3

(13)

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

Social/Behavioral Science Elective**

Capstone Design Project

Subtotal

+++84-		Electron and to be endeded		d	c - 11		
	,	ourse Electives are to be selected			_	_	4
ELC	228	PLC Applications	2	6	0	0	4
EGR	130	Engineering Cost Control	2	2	0	0	3
ISC	132	Mfg Quality Control	2	3	0	0	3
LOG	110	Introduction to Logistics	3	0	0	0	3
LOG	125	Transportation Logistics	3	0	0	0	3
LOG	215	Supply Chain Management	3	0	0	0	3
MAC	141	Machining Applications I	2	6	0	0	4
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 Program69-74

Mechatronics Engineering Technology (D40350)

Diploma

your p	orogran	n advisor.	Class	Lab	Clinic	Work Exp.	Credit				
Fall Semester											
ACA	115 Or	Success and Study Skills	0	2	0	0	1				
ACA	122	College Transfer Success	0	2	0	0	1				
EGR	111 Or	Engineer Comp and Careers	2	2	0	0	3				
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				
MAT	121 Or	Algebra /Trigonometry I	2	2	0	0	3				
MAT	171	Pre-calculus Algebra Subtotal	3	2	0	0 (13	4 -15)				

Class Lab Clinic Work Credit

Sprin	Spring Semester							
ATR	112	Intro to Automation	2	3	0	0	3	
ELC	213	Instrumentation	3	2	0	0	4	
MAT	122 Or	Algebra/Trigonometry II	2	2	0	0	3	
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)	
Sumn	ner Ter					(17	'-18)	
Sumn EGR	ner Ter 125		1	2	0	(17 0	'-18) 2	
		rm	1 3	2 0	0	`	,	
EGR	125	rm Appl Software for Tech	1 3 2	_	-	0	2	
EGR ENG	125 111	rm Appl Software for Tech Writing and Inquiry	-	0	0	0	2 3	

Total Semester Credit Hours in Program37-40

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			
MAT	122 Or	Algebra and Trigonometry II	2	2	0	0	3			
MAT	172	Pre-calculus Trigonometry	3	2	0	0	4			
PHY	131	Physics – Mechanics	3	2	0	0	4			
Total Semester Credit Hours in Program17-18										

Mechatronics Engineering Technology – Logistics (C40350LG) 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.

, o a. p			Class	Lab	Clinic	Work (Exp.	Credit				
Required Courses											
EGR	125	Appl Software for Tech	1	2	0	0	2				
EGR	130	Engineering Cost Control	2	2	0	0	3				
ISC	132	Mfg Quality Control	2	3	0	0	3				
LOG	110	Introduction to Logistics	3	0	0	0	3				
LOG	125	Transportation Logistics	3	0	0	0	3				
LOG	215	Supply Chain Management	3	0	0	0	3				
Total Semester Credit Hours in Program17											

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.

					_,,p.			
Required Courses								
112	Intro to Automation	2	3	0	0	3		
117	Motors and Controls	2	6	0	0	4		
111	Engineer Comp and Careers	2	2	0	0	3		
Or								
150	Introduction to Engineering	1	2	0	0	2		
112	Industrial Safety	2	0	0	0	2		
130	Mechanisms	2	2	0	0	3		
160	Industrial Fabrication	1	3	0	0	2		
	112 117 111 Or 150 112	112 Intro to Automation 117 Motors and Controls 111 Engineer Comp and Careers Or 150 Introduction to Engineering 112 Industrial Safety 130 Mechanisms	112 Intro to Automation 2 117 Motors and Controls 2 111 Engineer Comp and Careers 2 Or 150 Introduction to Engineering 1 112 Industrial Safety 2 130 Mechanisms 2	112 Intro to Automation 2 3 117 Motors and Controls 2 6 111 Engineer Comp and Careers 2 2 Or 150 Introduction to Engineering 1 2 112 Industrial Safety 2 0 130 Mechanisms 2 2	112 Intro to Automation 2 3 0 117 Motors and Controls 2 6 0 111 Engineer Comp and Careers 2 2 0 Or T Introduction to Engineering 1 2 0 112 Industrial Safety 2 0 0 130 Mechanisms 2 2 0	red Courses 112		

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

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.

your program advisor.								
) o a. p	Class Lab Clinic			Work Credit Exp.				
Fall S	emest	er						
ACA CIS ENG MAT OST	115 110 111 143 136	Success and Study Skills Introduction to Computers Writing and Inquiry Quantitative Literacy Word Processing Subtotal	0 2 3 2 2	2 2 0 2 2	0 0 0 0	0 0 0 0	1 3 3 3 3 (13)	
	g Sem		_	_		_		
ACC CTS ENG OST OST	120 125 114 134 236	Prin of Financial Accounting Presentation Graphics Prof. Research and Reporting Text Entry & Formatting Adv Word/Information Proc Subtotal	3 2 3 2 2	2 0 2 2	0 0 0 0	0 0 0 0	4 3 3 3 (16)	
Sumr	ner Tei	·m						
OST OST	2 1 ctive**	2 2	0	0	3 2 3 3 3 (14)			
Fall S	emest	er						
BUS CTS OST OST	125 130 164 184	Personal Finance Spreadsheet Text Editing Applications Records Management Major Course Elective*** Subtotal	3 2 3 2	0 2 0 2	0 0 0 0	0 0 0 0	3 3 3 3 (15)	
Spring Semester								
ACC BUS MKT OST OST WBL	140 270 223 137 289 111	Payroll Accounting Professional Development Customer Service Office Software Applications Administrative Office Mgt Work-Based Learning I Subtotal	1 3 2 2 0	2 0 0 2 2 0	0 0 0 0 0	0 0 0 0 0 10	2 3 3 3 1 (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	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
MKT	123	Fundamentals of Selling	3	0	0	0	3
MKT	220	Advertising and Sales Promotion	3	0	0	0	3
MKT	225	Marketing Research	3	0	0	0	3
MKT	227	Marketing Applications	3	0	0	0	3
MKT	232	Social Media Marketing	3	2	0	0	4
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 Program73

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 Credit Exp. **Fall Semester** ACA 115 Success and Study Skills 2 0 0 CIS 110 Introduction to Computers 2 2 0 3 0 OST 136 Word Processing 2 2 0 0 3 OST 164 **Text Editing Applications** 3 0 0 0 3 3 OST 184 Records Management 0 Humanities Elective** 3 Or Social/Behavioral Science Elective** 3 Subtotal (16)**Spring Semester** BUS 270 Professional Development 0 Λ 0 3 3 Text Entry & Formatting OST 134 2 2 0 0 3 2 OST 137 Office Software Applications 2 0 0 3 Adv Word/Information Proc 2 2 OST 236 0 0 3 Administrative Office Mgt. OST 289 2 2 0 0 3 WBL 111 Work-Based Learning I 0 10 1 Subtotal (16)**Summer Term** CTS 125 Presentation Graphics 2 0 0 3 Spreadsheet 2 2 3 CTS 130 0 0 **ENG** Writing and Inquiry 3 0 0 0 3 111 OST 284 **Emerging Technologies** 2 Subtotal (11)

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

Total	Samostar	Cradit	Hours i	in	Drogram	4:	2
iotai	Semester	Credit	nours i	m	Program	4,	o.

Class Lab Clinic Work Credit

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.	
Fall S	emest	er					
ACA OST OST OST OST OST	115 131 136 141 164 184	Success and Study Skills Keyboarding Word Processing Medical Terms I–Med Office Text Editing Applications Records Management Subtotal	0 1 2 3 3 2	2 2 2 0 0 2	0 0 0 0 0	0 0 0 0 0	1 2 3 3 3 3 (15)
Sprin	g Sem	ester					
BUS OST OST OST WBL	148	Professional Development Office Software Applications Med Coding Billing and Ins Administrative Office Mgt Work-Based Learning I Humanities Elective**	3 2 3 2 0	0 2 0 2 0	0 0 0 0	0 0 0 0 10	3 3 3 1 3
		Social/Behavioral Science Elec Subtotal	ctive**	·			3 (16)
Sumn	ner Ter	m					
CTS ENG OST OST		Spreadsheet Writing and Inquiry Medical Legal Issues Medical Office Simulation Subtotal	2 3 3 2	2 0 0 2	0 0 0	0 0 0 0	3 3 3 (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 Program43

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	Work Credi Exp.			
Fall S	emes	ter					
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 Program18

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.

			Olass	Lab	Cillilo	Exp.	Orean			
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 Program18

Office Administration – Basic Office Bookkeeping (C25370B)

Certificate

		Class	Lab	Clinic	Work Exp.	Credit	
Fall Semester							
CIS 110 Inti	roduction to Computers	2	2	0	0	3	
OST 153 Off	ice Finance Solutions	1	2	0	0	2	
OST 164 Tex	kt Editing Applications	3	0	0	0	3	
OST 184 Re	cords Management	2	2	0	0	3	
Su	btotal					(11)	
Spring Semeste	er						
OST 134 Tex	kt Entry & Formatting	2	2	0	0	3	
OST 136 Wo	ord Processing	2	2	0	0	3	
WBL 111 Wo	ork-Based Learning I	0	0	0	10	1	
Su	btotal					(7)	
Total Semester Credit Hours in Program18							

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.

					Clinic	Work Exp.	Credit
Fall S	emest	er					
ACA CIS OST OST OST	115 110 136 164 171	Success and Study Skills Introduction to Computers Word Processing Text Editing and Applications Intro to Virtual Office Subtotal	0 2 2 3 2	2 2 2 0 2	0 0 0 0	0 0 0 0	1 3 3 3 3 (13)
Sprin	g Sem	ester					
CTS ENG MAT OST OST	143	Spreadsheet Writing and Inquiry Quantitative Literacy Text Entry and Formatting Adv Word/Information Proc Subtotal	2 3 2 2 2	2 0 2 2 2	0 0 0 0	0 0 0 0	3 3 3 3 (15)
Sumr	ner Ter	m					
CTS ECM ENG OST		Presentation Graphics Introduction to E-Commerce Prof Research and Reporting Office Publications Design Subtotal	2 2 3 2	2 2 0 2	0 0 0 0	0 0 0 0	3 3 3 (12)
Fall S	emest	er					
OST OST	153 184	Office Finance Solutions Records Management Humanities Elective** Social/Behavioral Science Elective Major Course Elective*** Subtotal	1 2 ctive**	2 2	0	0	2 3 3 3 (14)

S	prin	g Sei	mest	ter

MKI	223	Customer Service	3	Ü	U	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
WEB	214	Social Media	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	120	Prin of Financial Accounting	3	2	0	Ō	4
ACC	150	Acct Software Application	1	2	0	0	2
BUS	110	Introduction to Business	3	0	0	0	3
BUS	125	Business Finance	2	2	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
MKT	123	Fundamentals of Selling	3	0	0	0	3
MKT	220	Advertising and Sales Promotion	3	0	0	0	3
MKT	227	Marketing Applications	3	0	0	0	3
MKT	232	Social Media Marketing	3	2	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 Program69

Office Administration/Virtual Office Assistance (D2537B) Diploma

	your p	nogran	rauvisor.	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)		
	Sprin	g Sem	ester							
	CIS	110	Introduction to Computers	2	2	0	0	3		
	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					(15)		

Summer Term

125	Presentation graphics	2	2	0	0	3
130	Spreadsheet	2	2	0	0	3
210	Introduction to E-Commerce	2	2	0	0	3
111	Writing and Inquiry	3	0	0	0	3
	Humanities Elective**					3
Or						
	Social/Behavioral Science Elective**					3
	Subtotal					(15)
	130 210 111	 Spreadsheet Introduction to E-Commerce Writing and Inquiry Humanities Elective** Or Social/Behavioral Science Elective 	130 Spreadsheet 2 210 Introduction to E-Commerce 2 111 Writing and Inquiry 3 Humanities Elective** Or Social/Behavioral Science Elective**	130 Spreadsheet 2 2 210 Introduction to E-Commerce 2 2 111 Writing and Inquiry 3 0 Humanities Elective** Or Social/Behavioral Science Elective**	130 Spreadsheet 2 2 0 210 Introduction to E-Commerce 2 2 0 111 Writing and Inquiry 3 0 0 Humanities Elective** Or Social/Behavioral Science Elective**	130 Spreadsheet 2 2 0 0 210 Introduction to E-Commerce 2 2 0 0 111 Writing and Inquiry 3 0 0 0 Humanities Elective** Or Social/Behavioral Science Elective**

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

Total Semester Credit Hours in Program45

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.

your program advisor. Class Lab Clinic Work Credit Exp. **Fall Semester** CIS 110 Introduction to Computers 2 2 0 0 3 OST 136 Word Processing 2 2 0 0 3 OST 164 **Text Editing Applications** 0 Intro to Virtual Office 2 OST 171 0 0 3 Subtotal (12) **Spring Semester** CTS 130 Spreadsheet 2 0 0 3 OST 272 Virtual Office Capstone 2 1 0 0 2 WBL 111 Work-Based Learning I 10 1 Subtotal (6)Total Semester Credit Hours in Program18

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.

	your program advisor.						
your p	nogran	i auvisui.	Class	Lab	Clinic	Work Exp.	Credit
Fall S	emest	er					
ACA ART ENG SGD SGD	131 111 111	Success and Study Skills Drawing I Writing and Inquiry Introduction to SGD 3D Modeling Major Course Elective*** Subtotal	0 0 3 2 2	2 6 0 3 3	0 0 0 0	0 0 0 0	1 3 3 3 3 3 (16)
Sprin	g Sem	ester					
ART ENG SGD SGD SGD	113	Computer Art Prof. Research and Reporting SGD Design SGD Programming 3D Modeling II Subtotal	0 3 2 2 2	6 0 3 3 3	0 0 0 0	0 0 0 0	3 3 3 3 (15)
Sumn	ner Ter	m					
SGD SGD		Rigging 3D Models 3D Modeling III Social/Behavioral Science Elec Subtotal	2 2 ctive*	3	0	0	3 3 (9)
Fall S	emest	er					
SGD SGD SGD SGD SGD	174 212	Art for Games SG 3D Animation SG Level Design SGD Design II SGD Programming II Subtotal	2 2 2 2 2	3 3 3 3	0 0 0 0	0 0 0 0	3 3 3 3 (15)
Sprin	g Sem	ester					
MAT SGD SGD SGD	274	Quantitative Literacy Serious Games SG Level Design II SGD Project Humanities Elective* Subtotal	2 3 2 2	2 0 3 3	0 0 0 0	0 0 0 0	3 3 3 3 (15)

- * Humanities Electives are to be selected from the courses listed on page 46. ART 114 or ART 115 is strongly recommended.
- ** Social/Behavioral Science Electives are to be selected from the courses listed on page 46.

***Ma	jor Co	urse Electives are to be selected	l from	the	follo	wing:	
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
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

Total Semester Credit Hours in Program70

Simulation and Game Development (D25450) Diploma

your	Jogran	il auvisui.	Class Lab Clinio			Work Credit Exp.		
Fall S	emest	er						
ACA ART ENG SGD SGD		Success and Study Skills Drawing I Writing and Inquiry Introduction to SGD 3D Modeling Subtotal	0 0 3 2 2	2 6 0 3 3	0 0 0 0	0 0 0 0	1 3 3 3 3 (13)	
Sprin	g Sem	ester						
ART ENG SGD SGD		Computer Art Prof. Research and Reporting SGD Design SGD Programming Subtotal	0 3 2 2	6 0 3 3	0 0 0 0	0 0 0	3 3 3 (12)	
Fall S	emest	er						
SGD SGD SGD SGD	174	Art for Games SG 3D Animation SG Level Design SGD Design II Subtotal	2 2 2 2	3 3 3	0 0 0 0	0 0 0 0	3 3 3 (12)	
Total Semester Credit Hours in Program37								

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 Credi Exp.		
Fall S	emest	er					
SGD	111	Introduction to SGD Subtotal	2	3	0	0	3 (3)
Sprin	g Sem	ester					
	112	3		3	0	0	3
SGD	113	SGD Programming Subtotal	2	3	0	0	3 (6)
Fall S	emest	er					
SGD	117	Art for Games	2	3	0	0	3
SGD		SG Level Design		3		0	3
SGD	212	SGD Design II Subtotal	2	3	0	0	3
		Subiolai					(9)

Simulation and Game Development – Game Art* (C25450A)

Students may be required to take one or more developmental courses as a result of pre-enrollment placement 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.

Total Semester Credit Hours in Program18

*This program of study does not qualify for federal and/or state financial aid.

			Class Lab Clinic			Work Credit Exp.				
Fall Semester										
ART	131	Drawing I	0	6	0	0	3			
SGD	111	Introduction to SGD	2	-		0	3 3			
SGD	114	3D Modeling I Subtotal	2	3	0	0	3 (9)			
Sprin	g Sem	ester								
ART	171	Computer Art I Subtotal	0	6	0	0	3 (3)			
Fall S	emest	er								
SGD	117	Art for Games Subtotal	2	3	0	0	3 (3)			
Total Semester Credit Hours in Program19										

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.

*This program of study does not qualify for federal and/or state financial aid.

illianciai aic	••	Class Lab Clin			Work Credit Exp.		
Fall Semest	er						
SGD 111	Introduction to SGD Subtotal	2	3	0	0	3 (3)	
Spring Sem	ester						
CSC 153	C# Programming		3	0	0	3	
SGD 113	SGD Programming Subtotal	2	3	0	0	3 (6)	
Fall Semest	er						
SGD 174	SG Level Design		3	0	0	3	
SGD 213	SGD Programming II Subtotal	2	3	0	0	3 (6)	

Total Semester Credit Hours in Program15

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.

*This program of study does not qualify for federal and/or state financial aid.

		Class	Class Lab Clin			Credit
Fall Ser	nester					
ART 1	31 Drawing I	0	6	0	0	3
SGD 1	14 3D Modeling I Subtotal	2			0	3 (6)
Spring	Semester					
ART 1	71 Computer Art I	0	6	0	0	3 3
SGD 2	14 3D Modeling II Subtotal	2	3	0	0	3 (6)
Summer Term						
SGD 2	44 3D Modeling III Subtotal	2	3	0	0	3 (3)

Simulation and Game Development – Character Design* (C25450C)

Students may be required to take one or more developmental courses as a result of pre-enrollment placement 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.

*This program of study does not qualify for federal and/or state financial aid.

			Class Lab Clinic		Work Credi Exp.		
Fall S	emest	er					
ART	131	Drawing I	0	6	0	0	3
SGD	114	3D Modeling I Subtotal	2	3	0	0	3 (6)
Sprin	g Sem	ester					
ART	135	Figure Drawing	0	6	0	0	3
ART	171	Computer Art I Subtotal	0	6	0	0	3 (6)
Fall Semester							
SGD	165	SG Character Development Subtotal	2	3	0	0	3 (3)

Total Semester Credit Hours in Program15

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.

*This program of study does not qualify for federal and/or state financial aid.

imanc	iai aiu	•	Class Lab Clin			Work Credi Exp.		
Fall S	emeste	er						
SGD TDP	111 110	Introduction to SGD Intro to 3D Printing Subtotal	2	3	0	0	3 3 (6)	
Spring	g Seme	ester						
ART TDP	120 140	3D Printing for the Artist Precision 3D Printing Subtotal		3		0	3 (6)	
Fall S	emeste	er						
TDP	289	3D Printing Project Subtotal	2	3	0	0	3 (3)	

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), 25400 US Hwy 19 North, Suite 158, Clearwater, FL 33763; 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.

your program advisor.						
your program auvisor.	Class Lab Cl		Clinic	Work Exp.		
Fall Semester						
ACA 115 Success and Study Skills BIO 163 Basic Anatomy/Physiology ENG 111 Writing and Inquiry SUR 110 Introduction to Surgical Tech SUR 111 Periop Patient Care Subtotal	0 4 3 3 5	2 2 0 0 6	0 0 0 0	0 0 0 0	1 5 3 3 7 (19)	
Spring Semester						
BIO 175 General Microbiology SUR 122 Surgical Procedures I SUR 123 SUR Clinical Practice I Subtotal	2 5 0	2 3 0	0 0 21	0 0 0	3 6 7 (16)	
Summer Term						
PSY 150 General Psychology SUR 134 Surgical Procedures II SUR 135 SUR Clinical Practice II SUR 137 Prof Success Prep Subtotal	3 5 0 1	0 0 0	0 0 12 0	0 0 0 0	3 5 4 1 (13)	
Fall Semester						
CIS 110 Introduction to Computers ENG 114 Prof Research and Reporting SUR 212 SUR Clinical Supplement* Humanities Elective** Social /Behavioral Science Elections	2 3 0 ective*	2 0 0	0 0 12	0 0 0	3 3 4* 3 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.

Total Semester Credit Hours in Program 67 or 71

Surgical Technology (D45740) Diploma

your program advisor. Class Lab Clinic					Work Credit Exp.			
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 Program48								

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

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	Credit
		Exp.	

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.)

Art							
ART ART	111 114	Art Appreciation	3	0	0	0	3
ART	115	Art History Survey I Art History Survey II	3	0	0	0	3
Comr	nunica	tions					
СОМ	231	Public Speaking	3	0	0	0	3
Litera	ture						
ENG	231	American Literature I	3	0	0	0	3
ENG	232	American Literature II	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
Music	;						
MUS	110	Music Appreciation	3	0	0	0	3
Philos	sophy						
PHI	240	Introduction to Ethics Subtotal	3	0	0	0	3 (9)

Social/Behavioral Science (9 semester hours required. Three courses from at least two different areas must be selected.

Econ	omics						
ECO ECO		Principles of Microeconomics Principles of Macroeconomics	3	0	0	0	3
Histo	ry						
HIS HIS HIS HIS	111 112 131 132	World Civilizations I World Civilizations II American History I American History II	3 3 3 3	0 0 0 0	0 0 0 0	0 0 0	3 3 3
Politi	cal Sci	ence					
POL	120	American Government	3	0	0	0	3
Psycl	nology						
PSY	150	General Psychology	3	0	0	0	3
Socio	logy						
SOC	210	Introduction to Sociology Subtotal	3	0	0	0	3 (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.)

	•	70 (00.000 0.10 000.100 110.11			, -,		
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 2 DRA 2 DRA 2 DRA 2 ECO ENG	112 211 212 151 113 114 232 241 242 252 262 211 110 160 172 271 272 273 210 211 211 211 211 211 211 211 211 211	Literature of the Theatre Theatre History I Theatre History II Survey of Economics Literature-Based Research Prof Research & Reporting Major American Writers British Literature II British Literature II Western World Literature World Literature II Elementary French I* Intermediate French I* Intermediate French II* World Regional Geography Technology and Society Introduction to Film Precalculus ITigonometry Calculus II Calculus III History of Philosophy Introduction to Logic College Physics I College Physics I General Physics II General Physics II Social Psychology Developmental Psychology Abnormal Psychology Developmental Psychology World Religions Intro to New Testament Intro to New Testament Intro to New Testament Religion in America Sociology of the Family Social Problems Elementary Spanish I* Elementary Spanish II* Intermediate Spanish II* Intermediate Spanish II* Intermediate Spanish II*	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	00000000000000002222002233000000000000		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	333333333333333333344443334444333333333
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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.

seni	or institu	tion.						
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 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 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	137	Principles of Management	3	0	0	0	3	
BUS	228	Business Statistics	2	2	0	0	3	

Transfer Program Associate in Engineering (A10500)

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	Credit
			Evn	

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)

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
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)			
Math		o (42 compoter believe required	*\							
iviatn	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 30 hours 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
MAT	285	Differential Equations	2	2	0	0	3
PED	110	Fit and Well for Life	1	2	0	0	2
		Subtotal					(15)

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 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 Credit

Ciass	Lab	CIII IIC	VVOIK	Oleu
			Exp.	

English C	Composition	(6	semester	hours	required)
Liigiioii C	Joinposition	v	3011103101	110413	1 cquii cu,

ENG	111	Writing and Inquiry	3	0	0	0	3
ENG	112	Writing/Research in the Discipl Subtotal	3	0	0	0	3 (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	U	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 Or	Success and Study Skills	0	2	0	0	1
ACA	122	College Transfer Success Subtotal	0	2	0	0	1 (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

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.

your p	orogran	n advisor.	Class	Lab	Clinic	Work Exp.	Credit
Engli	sh Cor	nposition (6 semester hours re	equir	ed)			
ENG ENG	111 112 Or	Writing and Inquiry Writing/Research in the Discipl	3	0	0 0	0 0	3
ENG	114	Prof Research and Reporting Subtotal	3	0	0	0	3 (6)
Histo	ry (3 s	emester hours required)					
HIS HIS	111 112	World Civilizations I World Civilizations II Subtotal	3	0	0	0	3 3 (3)
Litera	iture (3	semester hours required)					
ENG ENG ENG ENG ENG ENG	231 232 233 241 242 252 262	American Literature I American Literature II Major American Writers British Literature I British Literature II Western World Literature II World Literature II Subtotal	3 3 3 3 3 3	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	3 3 3 3 3 3 (3)
Huma	nities/	Fine Arts (3 semester hours re	quire	ed)			
ART ART ART ASL COM DRA FRE HUM HUM MUS PHI PHI REL REL REL SPA	111 111 110 160 110 210 230 240 110 211 212 221 111	Art Appreciation Art History Survey I Art History Survey II Elementary ASL I Public Speaking Theatre Appreciation Elementary French I Technology and Society Introduction to Film Music Appreciation History of Philosophy Introduction to Logic Introduction to Ethics World Religions Intor to Old Testament Intro to New Testament Religion in America Elementary Spanish I Subtotal	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Socia	ıı/Beha	vioral Science (6 semester ho	urs re	equi	red.	Selec	τ

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 Or	Success and Study Skills	0	2	0	0	1
ACA	122	College Transfer Success Subtotal	0	2	0	0	1 (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
DRA	211	Theatre History I	3	0	0	0	3
	Or						
DRA	212	Theatre History II	3	0	0	0	3

(20)

Drama Electives (9 semester hours required)

Subtotal

			,				
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.)

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 Credit Exp.

Geography

MUS 252

MUS 271

MUS 272

Class Music IV

Music History I

Music History II

Total Semester Credit Hours in Program64-65

Subtotal

2 0

3 0 0

3 0 0

0 3

3

(5)

English Composition (6 semester hours required)

A --- - -- 1. 1 - --- 1. . . -- 1

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	U	U	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

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
Econ	omics						
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
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 Sc	ience					
POL 120	American Government	3	0	0	0	3
		•	•	Ü	Ü	Ü
Psychology		_	•	•	•	•
PSY 150 PSY 237	General Psychology	3	0	0	0	3
PSY 237 PSY 241	Social Psychology Developmental Psych	3	0	0	0	3 3
PSY 281	Abnormal Psychology	3	0	0	0	3
	r.b.r.c.mai.r.eyeme.egy			Ü	Ü	
Sociology		_	•	•	•	•
SOC 210 SOC 213	Introduction to Sociology	3	0	0	0	3 3
SOC 213	Sociology of the Family Social Problems	3	0	0	0	3
000 220	Subtotal	J	U	O	U	(9)
	G a 2 13 1 a 1					(0)
Mathematic	s (Select one course from the f	ollo	wing	3)		
MAT 143	Quantitative Literacy	2	2	0	0	3
MAT 152	Statistical Methods I	3	2	0	0	4
MAT 171	Pre-Calculus Algebra Subtotal	3	2	0	0	4 (3-4)
	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		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 Requ	ired 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 M	usic Courses (30 semester hou	ırs re	equi	red)		
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 1	2	0	0	1
MUS 161 MUS 162	Applied Music I Applied Music II	1	2	0	0	2 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. Sele	ct fr	om '	the a	bove	
	d the electives listed below.)					
MUS 110	Music Appreciation	3	0	0	0	3
MUS 251	Class Music III	0	2	0	0	1

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 Credit Exp.

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.)

Art ART ART ART	111 114 115	Art Appreciation Art History Survey I Art History Survey II	3 3 3	0 0 0	0 0 0	0 0 0	3 3 3
Comn	nunica	tions					
COM	231	Public Speaking	3	0	0	0	3
Litera	ture						
ENG ENG ENG	232	American Literature I American Literature II British Literature I British Literature II	3 3 3 3	0 0 0	0 0 0 0	0 0 0 0	3 3 3
Music	;						
MUS	110	Music Appreciation	3	0	0	0	3
Philos	sophy						
PHI	240	Introduction to Ethics Subtotal	3	0	0	0	3 (6)

Social/Behavioral Science (6 semester hours required. Two courses from two different areas must be selected.)

Econ	omics									
ECO		Principles of Microeconomics	3	0	0	0	3			
ECO	252	Principles of Macroeconomics	3	0	0	0	3			
Histo	ry									
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			
Politi	cal Sci	ence								
POL	120	American Government	3	0	0	0	3			
Psycl	hology									
PSY	150	General Psychology	3	0	0	0	3			
Socio	logy									
SOC	210	Introduction to Sociology Subtotal	3	0	0	0	3 (6)			
	N									

Natural Sciences (One course sequence of 8 SHC required from the following.)

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

Mathematics (Select two courses from the following.)

Canadal Dialamid

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

DIO 444

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

0 3

0 3

0 4

0

3 3 0

COM COM DRA DRA DRA ECO ENG ENG ENG ENG	140 111 112 211	Intro Interpersonal Com Intro Intercultural Com Theatre Appreciation Literature of the Theatre Theatre History I Theatre History II Survey of Economics Major American Writers British Literature I British Literature II Western World Literature World Literature II	3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 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	143	Quantitative Literacy	2	2	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
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* Subtotal	3	0	0	0	3 (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

		Organic Chemistry I Organic Chemistry II	3	3	0	0	4 4
CJC 1	11	Intro to Criminal Justice	3	0	0	0	3
		Law Enforcement Operations	3	0	0	0	3
		Corrections Small Group Communication	3	0	0	0	3 3
		C++ Programming	2	3	0	0	3
		JAVA Programming	2	3	0	0	3
		Info Sys Business Concepts Engineering Graphics	3 2	0 2	0	0	3 3
		Voice for Performance	3	0	0	0	3
DRA 1	24	Readers Theatre	3	0	0	0	3
		Acting I	0	6	0	0	3
		Acting II Stagecraft I	0	6 6	0	0	3 3
	41	Stagecraft II	0	6	0	0	3
		Stage Make-up	1	2	0	0	2
	70	Play Production I	0	9	0	0	3
	71 270	Play Production II Play Production III	0	9	0	0	3 3
		Play Production IV	0	9	0	0	3
EGR 1	50	Intro to Engineering	1	2	0	0	2
		Creative Writing I	3	0	0	0	3
		Southern Literature Culture and Civilization	3	0	0	0	3 3
	51	Francophone Literature	3	0	0	0	3
		French Lab 1*	0	2	0	0	1
		French Lab 2*	0	2	0	0	1
		French Lab 3*	0	2	0	0	1
		French Lab 4* Introduction to GIS	0 2	2	0	0	1 3
		Recent American History	3	0	0	0	3
	236	North Carolina History	3	0	0	0	3
		Appalachian Culture	3	0	0	0	3
		Differential Equations Music Theory I	2	2	0	0	3 4
		Music Theory II	3	2	0	0	4
		Class Music I	0	2	0	0	1
		Class Music II	0	2	0	0	1
		Class Music III Class Music IV	0	2	0	0	1 1
		Fit and Well for Life	1	2	0	0	2
		Physical Fitness I	0	3	0	0	1
		Weight Training I	0	3	0	0	1
		Weight Training II	0	3	0	0	1 1
		Circuit Training Walking for Fitness	0	3	0	0	1
		Walk, Jog, Run	0	3	0	0	1
	22	Yoga I	0	2	0	0	1
		Yoga II	0	2	0	0	1
		Badminton Bowling-Beginning	0	2	0	0	1 1
		Volleyball-Beginning	0	2	0	0	1
		Dancing for Fitness	0	2	0	0	1
		Pilates I	0	2	0	0	1
		Pilates II Earth Science	0 3	2	0	0	1 4
	30	State and Local Government	3	0	0	0	3
		Forensic Psychology	3	0	0	0	3
		Sports Psychology	3	0	0	0	3
		Culture and Civilization Cultural Immersion	3 2	0 3	0	0	3 3
	81	Spanish Lab 1*	0	2	0	0	1
	82	Spanish Lab 2*	0	2	0	0	1
		Spanish Conversation	3	0	0	0	3
		Reading and Composition	3	0	0	0	3
		Spanish Lab 3* Spanish Lab 4*	0	2	0	0	1 1
J 2	-	Subtotal	,	_	3	J	(14)
							•
*Denote	es a co	orequisite, course cannot be take	en by	/ itse	elf.		

Total Semester Credit Hours in Program60

Principles of Management

Business Statistics

Organic Chemistry I

3 0 0

2 2

BUS 137

BUS 228

CHM 251

Articulated Transfer Program – Accounting Program (A25100WC) Pathway to Western Carolina University

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 47). 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.

your	your program davisor.		Class Lab Clinic			Work Credit Exp.		
Fall S	emest	er						
ACA ACC BUS CIS MAT	115 120 110 110 152	Success and Study Skills Prin of Financial Accounting Introduction to Business Introduction to Computers Statistical Methods I Subtotal	0 3 3 2 3	2 2 0 2 2	0 0 0 0	0 0 0 0	1 4 3 3 4 (15)	
-	g Sem							
ACC ACC BUS ECO ENG		Prin of Financial Acct II Payroll Accounting REAL Small Business Principles of Microeconomics Writing & Inquiry Subtotal	3 1 4 3 3	0 2 0 0 0	0 0 0 0	0 0 0 0	3 2 4 3 3 (15)	
Sumr	ner Ter	m						
CTS ENG	130 114	Spreadsheet Prof. Research and Reporting Humanities Elective** Subtotal	2	2	0	0	3 3 (9)	
Fall S	emest	er						
ACC ACC ACC BUS MKT	121 129 220 115 120	Prin of Managerial Accounting Individual Income Taxes Intermediate Accounting I Business Law I Principles of Marketing Subtotal	3 2 3 3 3	2 2 2 0 0	0 0 0 0	0 0 0 0	4 3 4 3 3 (17)	
Sprin	g Sem	ester						
ACC ACC BUS WBL ECO		Accounting Software Application Practices in Accounting Business Finance Work-Based Learning I Principles of Macroeconomics Subtotal	3 2 0 3	2 0 2 0 0	0 0 0 0	0 0 0 10 0	2 3 1 3 (12)	

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

Total Semester Credit Hours in Program68

Articulated Transfer Program Criminal Justice Program (A55180MH) Pathway to Mars Hill Bachelor of Science

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 hours at Mars Hill.

, ,	J		Class	Lab	Clinic	Work Exp.	Credit
Fall S ACA CIS CJC CJC ENG	115 110 111 111 231 111	er-YEAR 1 Success & Study Skills Intro to Computers Intro to Criminal Justice Constitutional Law Writing and Inquiry Subtotal	0 2 3 3 3	2 2 0 0	0 0 0 0	0 0 0 0	1 3 3 3 3 (13)
Sprin	g Sem	ester-YEAR 1					
CJC CJC ENG	112 131 112 Or	Criminology Criminal Law Writing/Research in the Discipl	3 3 3	0 0 0	0 0 0	0 0 0	3 3 3
ENG MAT	114 143	Prof Research & Reporting Quantitative Literacy Course Elective* Subtotal	3	0	0	0	3 3 3 (15)
Sumr	ner Ter	m-YEAR 1					
PSY	150	General Psychology Humanities Elective** Social Behavior Science ** Subtotal	3	0	0	0	3 3 (9)
Fall S	emest	er-YEAR 2					
CJC CJC CJC GEO	113 132 221 111	Juvenile Justice Court Procedure & Evidence Investigative Principles World Regional Geography Foreign Language Elective ** Subtotal	3 3 3 3	0 0 2 0	0 0 0 0	0 0 0 0	3 4 3 4 (17)
Sprin	g Sem	ester-YEAR 2					
CJC CJC CJC BIO BIO	121 141 212 140 140A	Law Enforcement Operations Corrections Ethics & Comm. Relations Environmental Biology Environmental Biology Lab Subtotal	3 3 3 0	0 0 0 0 3	0 0 0 0	0 0 0 0	3 3 3 1 (13)

- **Humanities Electives: choose from ART 111 or DRA 111
- **Social Behavior Science Electives: choose from HIS 111, 112, 131, 132
- **Foreign Language Elective: choose from FRE 111 & 181 or SPA 111 & 181
- * Course Elective credits should be selected from the ASL, BIO, BUS, CCT, CET, CIS, CJC, COM, CSC, CTS, DBA, ECO, EDU, EPT, HEA, HIS, NET, OST, PED, POL, PSY, or SOC

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.									
your program	ii auvisoi.	Class	Lab	Clinic	Work Exp.	Credit			
Fall Semest	er								
ACA 115 Or	Success and Study Skills	0	2	0	0	1			
ACA 122 EDU 144 EDU 163 EDU 173 ENG 111	College Transfer Success Child Development I Classroom Mgt and Instruct Becoming a Prof'l in ECE Writing and Inquiry Foreign Language (either ASL Subtotal	0 3 3 3 3 , FRE	2 0 0 0 0 , SP	0 0 0 0 0 A)	0 0 0 0	1 3 3 3 3 (16)			
Spring Sem	ester								
ENG 112 EDU 131 EDU 145 PSY 150	Writing/Research in the Discip Child, Family and Community Child Development II General Psychology Foreign Language (either ASL Subtotal	3 3 3	0 0 0 0 , SP	0 0 0 0 A)	0 0 0 0	3 3 3 3 (18)			
Summer Ter	rm								
MAT 143	Quantitative Literacy Select one from: ART 111, PHI 240, MUS 11 Subtotal	2	2	0	0	3 (6)			
Fall Semest	er								
EDU 216 EDU 221 CIS 110	Foundations of Education Children with Exceptionalities Introduction to Computers Science Elective** Select one from: HIS 111, HIS 112 Subtotal	4 3 2	0 0 2	0 0 0	0 0 0	4 3 3 4 3 (17)			
Spring Sem	ester								
EDU 271 EDU 285 EDU 289 ENG 241	Educational Technology Internship Exp-School-Age Adv Issues/School Age British Literature I Social/Behavioral Science Elec Subtotal	3 1 2 3 ctive**	0 9 0 0	0 0 0 0	0 0 0 0	3 4 2 3 3 (15)			

** Choose from the courses below

Social/Behavior Sciences Note	e: HIS 111 or HIS	112	is req	uired	l.	
GEO 111 World Regional Ge	eography 3	0	0	0	3	
(Middle Grades Social Studies concentration)						
HIS 111 World Civilizations	1 3	0	0	0	3	
(Middle Grades Social Studie	,					
HIS 112 World Civilizations	II 3	0	0	0	3	
(Middle Grades Social Studie	s concentration)					
HIS 131 American History I	3	0	0	0	3	
(Middle Grades Social Studie	s concentration)					
HIS 132 American History I		0	0	0	3	
(Middle Grades Social Studie	,					
POL 120 American Government		0	0	0	3	
(Middle Grades Social Studie	,					
SOC 210 Introduction to Soc	0,	0	0	0	3	
(Middle Grades Social Studie	s 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
(N	liddle G	Grades Science concentration)					
BIO	140A	Environmental Biology Lab*	0	3	0	0	4
(N	liddle G	Grades Science concentration)					
CHM	151	General Chemistry I	3	3	0	0	4
(N	liddle G	Grades Science concentration)					
CHM	152	General Chemistry II	3	3	0	0	4
PHY	151	College Physics I	3	2	0	0	4
(N	liddle G	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		
(M	ath cor	centration)							
MAT	271	Calculus I	3	2	0	0	4		
POL	130	State and Local Government	3	0	0	0	3		
(Sc	(Social Studies concentration)								

Bridge Courses for ESL Concentration

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

111/181
112/182
211/281
111/181
112/182
111/181
112/182
211
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.

your program advisor.				Lab	Clinic	Work Exp.	Credit
Fall S	emeste	er					
ACA	115 Or	Success and Study Skills	0	2	0	0	1
ACA EDU EDU ENG	122 144 173 111	College Transfer Success Child Development I Becoming a Prof'I in ECE Writing and Inquiry Foreign Language (either ASL, Math Elective** Subtotal	0 3 3 3 FRE,	2 0 0 0 SP/	0 0 0 0 0 A)	0 0 0 0	1 3 3 3 3 (17)
Sprin	g Seme	ester					
ENG EDU EDU EDU	112 131 145 271	Writing/Research in the Discipl Child, Family and Community Child Development II Educational Technology Foreign Language (either ASL, Subtotal	3 3 3 3 FRE,	0 0 0 0 SP/	0 0 0 0 A)	0 0 0 0	3 3 3 3 (15)
Sumn	ner Ter	m					
		Math Elective** Select one from: ART 111, DRA 111, HUM 21 Social/Behavioral Science Elections		S 1	10	(2)	3-4 3 3 9-10)
Fall S	emeste	er					
EDU EDU EDU	163 216 221	Classroom Mgt and Instruct Foundations of Education Child with Exceptionalities Natural/Physical Science Electi Subtotal	3 4 3 ve**	0 0 0	0 0 0	0 0 0	3 4 3 4 (14)
Sprin	g Seme	ester					
EDU EDU	285 289	Internship Exp-School-Age Adv Issues/School Age Social/Behavioral Science Elective** Subtotal	1 2 tive**	9	0	0	4 2 3 4 (13)

** Choose from the courses below

CII	oose	from the courses below										
Social/Behavior Sciences Note: HIS 111 or HIS 112 is required												
		World Regional Geography rades Social Studies concentratio	3	0	0	0	3					
HIS	111	World Civilizations I rades Social Studies concentration	á	0	0	0	3					
HIS	112	World Civilizations II	á	0	0	0	3					
HIS	131	rades Social Studies concentratio American History I	á	0	0	0	3					
HIS	132	rades Social Studies concentratio American History II	3	0	0	0	3					
POL	120	rades Social Studies concentratio American Government	3	0	0	0	3					
SOC (Mi	210 iddle G	Introduction to Sociology rades Social Studies concentration	3 n)	0	0	0	3					
Math												
MAT (Mi		Quantitative Literacy rades Math concentration)	2	2	0	0	3					
MAT	152	Statistical Methods I rades Math concentration)	3	2	0	0	4					
MAT	171	Precalculus Algebra	3	2	0	0	4					
MAT		Precalculus Trigonometry	3	2	0	0	4					
MAT	271	Calculus I	3	2	0	0	4					
(Mi	iddle G	rades Math concentration)										
	•	sical Science										
		course sequence, including accor				orator	У					
WORK,	irom tn 111	e biological or physical science di General Biology I	scip 3	iine:	s. 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					
		se for Elementary Education, S ducation Concentration	pec	ial E	duca	tion, a	and					
EDU	151	Creative Activities	3	0	0	0	3					
Brida	e Cour	ses for Middle Grades Concent	ratio	on								
HIS	236	North Carolina History	3	0	0	0	3					
POL	130	State and Local Government	3	0	0	0	O					
3 (Soc	cial Stu	idies concentration)										
PSY	150	General Psychology	3	0	0	0	3					
		ses for ESL Concentration										
		emester of the same Foreign La	ngu	age	-Choo	se fr	om:					
ASL	111/18											
	112/18											
FRE	211/2 111/18											
FRE												
SPA												
	112/18											
SPA												
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 vear.

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 Credit Exp. **Required Courses** College Transfer Success ACA 122 2 0 0 1 Prin. of Financial Acct. ACC 120 3 2 0 0 4 General Biology I 3 0 BIO 0 4 111 BIO 112 General Biology II 3 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 4 General Chemistry II 3 CHM 152 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 World Civilizations II 0 0 HIS 112 3 0 3 2 0 0 MAT 152 Statistical Methods I 3 4 2 0 0 MAT 171 Pre-Calculus Algebra 3 4 Pre-Calculus Trigonometry 2 0 0 4 MAT 172 2 0 MAT 271 Calculus I 0 4 Literature' 3 Additional Electives 3

^{*} Literature options - ENG 231, 232,

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.

your p	rogram	i auvisoi.	Class Lab Clinic Work Cred Exp.				
Fall S	emeste	er – Year 1					
ACA BIO CHM MAT	115 165 151 171	Success and Study Skills Anatomy and Physiology I General Chemistry I Precalculus Algebra Liberal Arts (WCU) Subtotal	0 3 3 3	2 3 3 2	0 0 0 0	0 0 0 0	1 4 4 4 3 (16)
Spring	g Seme	ester – Year 1					
BIO CHM CIS ENG	166 132 110 111	Anatomy and Physiology II Organic and Biochemistry Introduction to Computers Writing and Inquiry Liberal Arts (WCU) Subtotal	3 3 2 3	3 3 2 0	0 0 0 0	0 0 0 0	4 4 3 3 3 (17)
Fall S	emeste	er – Year 2					
NUR PED PSY	111 110 241	Intro to Health Concepts Fit and Well for Life Developmental Psychology Liberal Arts (WCU) Subtotal	4 1 3	6 2 0	6 0 0	0 0 0	8 2 3 3 (16)
Spring	g Seme	ester – Year 2					
BIO NUR NUR	175 112 211	General Microbiology Health Illness Concepts Health Care Concepts Liberal Arts (WCU) Subtotal	2 3 3	2 0 0	0 6 6	0 0 0	3 5 5 3 (16)
Sumn	ner Ter	m – Year 2					
NSG NUR	346 114	(WCU) Holistic Health Concepts Subtotal	3	0	6	0	3 5 (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	0 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	Total Semester Credit Hours in Program129									

Class Lab Clinic Work Credit

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

			01000	Lab	Omno	Exp.	oroun
Requ	ired Co	ourses					
ACA	122	College Transfer success	1	0	0	0	1
BIO	111	General Biology I	3	3	0	0	4
BIO	163 Or	Basic Anat and Phys	4	2	0	0	5
BIO	165 And	Anatomy and Physiology I	3	3	0	0	4
BIO	166	Anatomy and Physiology II	3	3	0	0	4
BIO	175	General Microbiology	2	2	0	0	3
CHM	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		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 Or	College Physics I	3	2	0	0	4
PHY	251	General Physics I	3	3	0	0	4
		Literature**					3
		Social/Behavioral Sciences**					3

^{**} Literature options - ENG 231, 232,

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

^{**}Social/Behavioral Sciences options -SOC 210, ECO 251, ECO 252

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 nondestructive 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

vour p	your program advisor.								
) o u. p		. 441.661.	Class Lab Clinic			Work Credit Exp.			
Fall S	emest	er							
ACA	115	Success and Study Skills	0	2	0	0	1		
WLD WLD	110 112	Cutting Processes Basic Welding Processes	1 1	3	0	0	2 2		
WLD		SMAW (Stick) Plate	2	9	0	0	5		
WLD	141	Symbols and Specifications Subtotal	2	2	0	0	3 (13)		
Sprin	g Sem	ester							
ENG	111	Writing and Inquiry	3	0	0	0	3		
WLD WLD	116 121	SMAW (stick) Plate/Pipe GMAW (MIG) FCAW/Plate	1 2	9	0	0	4 4		
WLD		GTAW (TIG) Plate	2	6	0	0	4		
		Humanities Elective**					3		
		Subtotal					(18)		
Sumn	ner Ter	m							
MAT	110	Math Measurement & Literacy	2	2	0	0	3		
WLD	205	Automated Welding/Cutting Major Course Elective***	2	6	0	0	4 3		
		Subtotal					(10)		
Fall S	emest	er							
ENG	114	Prof Research and Reporting	3	0	0	0	3		
WLD WLD		Industrial SMAW GTAW (TIG) Plate/Pipe	1 1	4 6	0	0	3		
WLD		Inert Gas Welding	1	3	0	0	2		
WLD	215	SMAW (Stick) Pipe	1	9	0	0	4		
		Subtotal					(15)		
Sprin	g Sem	ester							
WLD		GTAW (TIG) Pipe	1	6 3	0	0	3		
WLD WLD		Certification Practices Inspection & Testing	1 2	2	0	0	2		
		Major Course Elective***					3		
		Social Science Elective** Subtotal					3 (14)		
		Capitala					(1-7)		

^{**}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:										
DFT	151	CAD I	2	3	0	0	3			
MAC	141	Machining Applications I	2	6	0	0	4			
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 Program70

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

your p	nogran	i advisor.	Class	Lab	Clinic	Work Exp.	
Fall S	emest	er					
ACA MAC WLD WLD WLD WLD	115 141 110 112 115 141	Success and Study Skills Machining Applications I Cutting Processes Basic Welding Processes SMAW (Stick) Plate Symbols and Specifications Subtotal	0 2 1 1 2 2	2 6 3 9 2	0 0 0 0 0	0 0 0 0 0	1 4 2 2 5 3 (17)
Spring ENG WLD WLD WLD	. — .	writing and Inquiry SMAW (stick) Plate/Pipe GMAW (MIG) FCAW/Plate GTAW (TIG) Plate Subtotal	3 1 2 2	0 9 6 6	0 0 0	0 0 0	3 4 4 4 (15)
Sumn	ner Ter	m					
MAT WLD	110 265	Math Measurement & Literacy Automated Welding/Cutting Subtotal	2	6	0	0	3 4 (7)
Total	Seme	ester Credit Hours in Progr	am				39

Welding Technology - Industrial Plate Welding (C50420IW) Certificate

		Class	Lab	Clinic	Work Credit Exp.					
Fall Semester										
WLD 110	Cutting Processes	1	3	0	0	2				
WLD 115	SMAW (Stick) Plate	2	9	0	0	5				
WLD 141	1 Symbols and Specifications	2	2	0	0	3				
	Subtotal					(10)				
Spring Se	emester									
WLD 121	I GMAW (MIG) FCAW/Plate	2	6	0	0	4				
WLD 131	I GTAW (TIG) Plate	2	6	0	0	4				
	Subtotal					(8)				
Total Semester Credit Hours in Program18										

Welding Technology – Industrial Plate/Pipe Welding (C50420AW) 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.

advisor.	Class	Lab	Clinic	Work Exp.	Credit
Machining Applications I SMAW (Stick) Pipe Subtotal	2 1	6 9	0	0	4 4 (8)
ster Sanitary Welding	2	6	0	0	4
GTAW (TIG) Pipe Certification Practices Subtotal	1	6	0	0	3 2 (9)
	Machining Applications I SMAW (Stick) Pipe Subtotal Ster Sanitary Welding STAW (TIG) Pipe Certification Practices	Machining Applications I 2 SMAW (Stick) Pipe 1 Subtotal Ster Sanitary Welding 2 STAW (TIG) Pipe 1 Certification Practices 1	Class Lab Machining Applications I 2 6 SMAW (Stick) Pipe 1 9 Subtotal Ster Sanitary Welding 2 6 STAW (TIG) Pipe 1 6 Certification Practices 1 3	Class Lab Clinic Machining Applications I 2 6 0 SMAW (Stick) Pipe 1 9 0 Subtotal Ster Sanitary Welding 2 6 0 STAW (TIG) Pipe 1 6 0 Certification Practices 1 3 0	Class Lab Clinic Work Exp. Machining Applications I 2 6 0 0 SMAW (Stick) Pipe 1 9 0 0 Subtotal Ster Sanitary Welding 2 6 0 0 STAW (TIG) Pipe 1 6 0 0 Certification Practices 1 3 0 0

Total Semester Credit Hours in Program17

Welding Technology – Industrial Pipe Welding (C50420PW) 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 S	emest	er					
MAC WLD		Machining Applications I SMAW (Stick) Pipe Subtotal	2 1	6 9	0	0	4 4 (8)
Sprin	g Sem	ester					
WLD WLD WLD	231	Sanitary Welding GTAW (TIG) Pipe Certification Practices Subtotal	2 1 1	6 6 3	0 0 0	0 0 0	4 3 2 (9)

Total Semester Credit Hours in Program17

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 Credit Exp.			
Fall S	emest	er							
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

DFT	151	CAD I	2	3	0	0	3
WLD	212	Inert Gas Welding Subtotal	1	3	0	0	2 (5)

Total Semester Credit Hours in Program17

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 Semest	er					
MAC 141	Machining Applications I	2	6	0	0	4
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					(13)
Spring Sem	ester					
WLD 212	Inert Gas Welding	1	3	0	0	2
WLD 251	Fabrication II Subtotal	1	6	0	0	3 (5)

Total Semester Credit Hours in Program18

Welding Technology – Industrial Maintenance Welding* (C50420IM) 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.

*This program of study does not qualify for federal and/or state financial aid

financial aid		Class	Lab	Clinic	Work Exp.	Credit	
Fall Semes	ter						
WLD 110	Cutting Processes	1	3	0	0	2	
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	
	Subtotal					(10)	
Spring Sen	nester						
WLD 121	GMAW (MIG) FCAW/Plate Subtotal	2	6	0	0	4 (4)	
Total Semester Credit Hours in Program14							

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