

## Programs of Study

Haywood Community College offers full-time curricular programs leading to an associate degree (4-5 semesters), a diploma (2-4 semesters), or certificate (1-3 semesters). Courses offered are on the semester system, with each semester consisting of 16 weeks or 80 class days, or the equivalent. The summer session operates on an abbreviated schedule.

### Suggested Schedules

Unless otherwise indicated, suggested schedules in this publication are for full-time day students. Many schedule combinations are possible to serve part-time, day, evening, or on-line students. To plan a specific schedule to complete a degree, diploma, or certificate, see an adviser in the major discipline.

### Course and Program Changes

The HCC website. The quickest way to keep up with the latest changes in requirements and new curricular programs between catalog issues is by using the internet to visit the college website at [www.haywood.edu](http://www.haywood.edu). Select “Academics” where a menu will show each program available. Each page has a date which indicates when the page was last edited.

### Major Department

Students may contact the department offering the major for details and the latest programmatic changes.

## Programs of Study

The following programs of study are available at Haywood Community College

### Degree Programs

College Transfer

Associate in Arts

Associate in General Education

Associate in Science

Associate in Applied Science with majors in the following fields of study:

Accounting

Automotive Systems Technology

Biotechnology (Collaborative)

Building Construction Technology-Green

Building

Business Administration

Collision Repair and Refinishing Technology

Computer Information Technology

Computer Integrated Machining

Cosmetic Arts

Criminal Justice Technology

Early Childhood Education

Electrical/Electronics Technology

Electronic Engineering Technology

Entrepreneurship

Fish and Wildlife Management Technology

Forest Management Technology

General Occupational Technology

Healthcare Business Informatics

Industrial Systems Technology

Low Impact Development

Medical Assisting

Medical Office Administration

Networking Technology

Nursing

Professional Crafts—Clay, Fiber, Jewelry, and

Wood

School-Age Education

Welding Technology

### Diploma Programs

Accounting

Automotive Systems Technology

Building Construction Technology

Business Administration

Collision Repair and Refinishing Technology

Computer Information Technology

Computer Integrated Machining

Cosmetic Arts

Electrical/Electronics Technology

Entrepreneurship

General Occupational Technology

Horticulture Technology

Industrial Systems Technology

Medical Office Administration/ Electronic

Health Records

Networking Technology

Professional Crafts – Clay, Fiber, Jewelry and

Wood

Therapeutic Massage

Transfer Core Diploma

Welding Technology

**Certificate Programs**

Accounting  
Automotive Systems Technology  
Automotive Systems Technology-Diesel  
Building Construction Technology  
Building Construction Technology -  
    Green Building Concentration  
Building Construction Technology -  
    Solar Photovoltaic Concentration  
Business Administration  
Business Administration- Office Software  
Collision Repair and Refinishing Technology  
Computer Information Technology  
Computer Integrated Machining  
Cosmetology Instructor  
Criminal Justice  
    (open only to students registered in the  
    Concurrent Enrollment Program)  
Criminal Justice- Emergency Management  
Early Childhood Education  
Early Childhood Education-Administration  
Early Childhood Education-  
    Special Education  
Electrical/Electronics Technology  
Electrical/Electronics Technology-  
    Solar Photovoltaic Concentration  
Electronic Engineering Technology  
Electronic Engineering Technology-  
    Engineering Design  
Electronic Engineering Technology-  
    Solar Photovoltaic Concentration  
Entrepreneurship  
Esthetics Instructor  
Esthetics Technology  
Forest Management Technology/Natural  
    Resource Specialist

General Occupational Technology  
Healthcare Business Informatics for Computer  
    Technology Professionals  
Healthcare Business Informatics for Health  
    Professionals  
Horticulture Technology  
Horticulture Technology-Advanced  
Industrial Systems Technology  
Industrial Systems Technology- Corporate  
Infant/Toddler Care  
Low Impact Development-Design  
Low Impact Development- GIS Specialist  
Low Impact Development- LID Specialist  
Manicuring/Nail Instructor  
Manicuring/Nail Technology  
Medical Office Administration  
Networking Technology  
Networking Technology-CISCO CCNA  
    Preparation  
Welding Technology

## Applied Science Social Behavioral Sciences and Humanities Electives

**Social and Behavioral Choices for Associate In Applied Science Degree Programs Unless Otherwise Noted:**

**Social**

**Behavioral**

**Sciences**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ANT 210 General Anthropology	3	0	0	3
ECO 251 Principles of Microeconomics	3	0	0	3
ECO 252 Principles of Macroeconomics	3	0	0	3
HIS 121 Western Civilization I	3	0	0	3
HIS 122 Western Civilization II	3	0	0	3
HIS 131 American History I	3	0	0	3
HIS 132 American History II	3	0	0	3
POL 120 American Government	3	0	0	3
PSY 150 General Psychology	3	0	0	3
SOC 210 Introduction to Sociology	3	0	0	3

**Humanities and Fine Arts Choices for Associate In Applied Science Degree Programs Unless Otherwise Noted:**

**Humanities/**

**Fine Arts**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ART 111 Art Appreciation	3	0	0	3
ART 114 Art History Survey I	3	0	0	3
ART 115 Art History Survey II	3	0	0	3
DRA 111 Theatre Appreciation	3	0	0	3
HUM 115 Critical Thinking	3	0	0	3
MUS 110 Music Appreciation	3	0	0	3
REL 110 World Religions	3	0	0	3
REL 111 Eastern Religions	3	0	0	3
REL 112 Western Religions	3	0	0	3
REL 211 Introduction to the Old Testament	3	0	0	3
REL 212 Introduction to the New Testament	3	0	0	3

## Accounting

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.

### Associate In Applied Science Degree (AAS) A25100

#### Fall Semester 1

	Lec	Lab	Clin	Cred
ACA 111 College Student Success	1	0	0	1
ACC 120 Principles of Financial Accounting	3	2	0	4
BUS 110 Introduction to Business	3	0	0	3
BUS 137 Principles of Management	3	0	0	3
CIS 110 Introduction to Computers	2	2	0	3
OST 131 Keyboarding	1	2	0	2
<b>Total =</b>				<b>16</b>

#### Spring Semester 1

	Lec	Lab	Clin	Cred
ACC 121 Principles of Managerial Accounting	3	2	0	4
BUS 115 Business Law I	3	0	0	3
BUS 125 Personal Finance	3	0	0	3
CTS 130 Spreadsheet	2	2	0	3
ENG 111 Expository Writing	3	0	0	3
<b>Total =</b>				<b>16</b>

#### Summer Semester 1

	Lec	Lab	Clin	Cred
ACC 140 Payroll Accounting	1	2	0	2
or COE 111 Co-Op Work Experience I (Spring Year 2)	0	0	10	1
ENG 114 Professional Research and Reporting	3	0	0	3
Mathematics	3	0	0	3
<b>Total =</b>				<b>7 - 8</b>

#### Fall Semester 2

	Lec	Lab	Clin	Cred
ACC 129 Individual Income Taxes	2	2	0	3
ACC 150 Accounting Applications Software	1	2	0	2
ACC 220 Intermediate Accounting I	3	2	0	4
ACC 225 Cost Accounting	3	0	0	3
ECO 251 Principles of Microeconomics	3	0	0	3
<b>Total =</b>				<b>15</b>

#### Spring Semester 2

	Lec	Lab	Clin	Cred
ACC 221 Intermediate Accounting II	3	2	0	4
BUS 280 R.E.A.L. Small Business	4	0	0	4
Humanities/Fine Arts	3	0	0	3
Social & Behavioral Sciences	3	0	0	3
<b>Total =</b>				<b>11</b>

**Total Credit Hours = 68 - 69**

#### Mathematics: Choose 3 hours from the following courses

MAT 140 Survey of Mathematics	3	0	0	3
MAT 151 Statistics I	3	0	0	3
MAT 171 Precalculus Algebra	3	0	0	3

**Diploma in Accounting D25100**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ACC 120	Principles of Financial Accounting	3	2	0	4
ACC 129	Individual Income Taxes	2	2	0	3
BUS 110	Introduction to Business	3	0	0	3
CIS 110	Introduction to Computers	3	2	0	3
OST 131	Keyboarding	1	2	0	2

**Total = 15**

**Spring Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ACC 121	Principles of Managerial Accounting	3	2	0	4
BUS 125	Personal Finance	3	0	0	3
CTS 130	Spreadsheet	2	2	0	3
ENG 111	Expository Writing	3	0	0	3

**Total = 13**

**Summer Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ACC 140	Payroll Accounting	1	2	0	2
BUS 115	Business Law I	3	0	0	3
ENG 114	Professional Research and Reporting	3	0	0	3

**Total = 8**

**Total Credit Hours = 36**

**Certificate in Accounting C25100**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ACC 120	Principles of Financial Accounting	3	2	0	4
ACC 129	Individual Income Taxes	2	2	0	3
BUS 110	Introduction to Business	3	0	0	3
CIS 110	Introduction to Computers	2	2	0	3
OST 131	Keyboarding	1	2	0	2

**Total = 15**

**Total Credit Hours = 15**

## Automotive Systems Technology

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

Classroom and lab experiences integrate technical and academic coursework. Emphasis is placed on theory, servicing and operation of brakes, electrical/electronic systems, engine performance, steering/suspension, automatic transmission/transaxles, engine repair, climate control, and manual drive trains.

Upon completion of this curriculum, students should be prepared to take the ASE exam and be ready for full-time employment in dealerships and repair shops in the automotive service industry.

### Associate In Applied Science Degree (AAS) A60160

#### Fall Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ACA 111	College Student Success	1	0	0	1
AUT 113	Automotive Servicing I	0	6	0	2
AUT 116	Engine Repair	2	3	0	3
AUT 151	Brake System	2	3	0	3
AUT 161	Basic Auto Electricity	4	3	0	5
AUT 181	Engine Performance I	2	3	0	3
<b>Total =</b>					<b>17</b>

#### Spring Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
AUT 141	Suspension and Steering Systems	2	3	0	3
AUT 163	Advance Auto Electricity	2	3	0	3
AUT 163A	Adv. Auto Electricity Lab	0	3	0	1
AUT 183	Engine Performance 2	2	6	0	4
CIS 110	Introduction to Computers	1	2	0	3
	Social & Behavioral Sciences				3
<b>Total =</b>					<b>17</b>

#### Summer Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ENG 111	Expository Writing	3	0	0	3
	Communications	3	0	0	3
	Mathematics	3	0	0	3
<b>Total =</b>					<b>9</b>

#### Fall Semester 2

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
AUT171	Auto Climate Control	2	4	0	4
AUT 221	Auto Transm/Transaxles	2	3	0	3
AUT 231	Man Trans/Axles/Drtrains	1	3	0	3
AUT 285	Introduction to Alternative Fuels	2	2	0	3
	Humanities/Fine Arts	3	0	0	3
<b>Total =</b>					<b>16</b>

#### Spring Semester 2

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
HET 110	Diesel Engines	3	9	0	6
AUT 212	Auto Shop Management	3	0	0	3
	Elective				1-2
<b>Total =</b>					<b>10-11</b>
<b>Total Credit Hours =</b>					<b>69-70</b>

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**Programs of Study**

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**Electives: Choose 1 course from the following:**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
COE 111 Co-op Work Experience I	0	0	10	1
COE 112 Co-op Work Experience I	0	0	20	1
WLD 112 Basic Welding Processes	1	3	0	2

**Mathematics: Choose 3 hours from the following courses**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
*MAT 101 Applied Math I	2	2	0	3
MAT 115 Mathematical Models	2	2	0	3
MAT 120 Geometry and Trigonometry	2	2	0	3
MAT 121 Algebra/Trigonometry	2	2	0	3
MAT 140 Survey of Mathematics	3	0	0	3

**Diploma in Automotive Systems Technology D60160**

**Fall Semester 1**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
AUT 113 Automotive Servicing I	0	6	0	2
AUT 116 Engine Repair	2	3	0	3
AUT 151 Brake System	2	3	0	3
AUT 161 Basic Auto Electricity	4	3	0	5
AUT 181 Engine Performance 1	2	3	0	3

**Total = 16**

**Spring Semester 1**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
AUT 141 Suspension and Steering Systems	2	3	0	3
AUT 183 Engine Performance 2	2	6	0	4
AUT 163 Advanced Auto Electricity	2	3	0	3
CIS 110 Introduction to Computers	1	2	0	3
AUT 163A Advanced Auto Electricity Lab	0	3	0	1

**Total = 14**

**Summer Semester 1**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
English	3	0	0	3
Mathematics				3

**Total = 6**

**Total Credit Hours = 36**

**Certificate in Automotive Systems Technology C60160**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
AUT 113	Automotive Servicing I	0	6	0	2
AUT 116	Engine Repair	2	3	0	3
AUT 151	Brake System	2	3	0	3
AUT 161	Basic Auto Electricity	4	3	0	5
AUT 181	Engine Performance 1	2	3	0	3

**Total = 16**  
**Total Credit Hours = 16**

**Certificate in Automotive Systems Technology C60160D (Diesel)**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
AUT 181	Engine Performance 1	2	3	0	3
AUT 183	Engine Performance 2	2	6	0	4
HET 110	Diesel Engines	3	9	0	6

**Total = 13**  
**Total Credit Hours = 13**

## Biotechnology (Collaborative)

In conjunction with Asheville-Buncombe Technical Community College, the Biotechnology curriculum, which has emerged from molecular biology and chemical engineering, is designed to meet the increasing demands for skilled laboratory technicians in various fields of biological and chemical technology.

Course work emphasizes biology, chemistry, mathematics, and technical communications. The curriculum objectives are designed to prepare graduates to serve in three distinct capacities: research assistant to a biologist or chemist, laboratory technician/instrumentation technician, and quality control/quality assurance technician.

Graduates may find employment in various areas of industry and government, including research and development, manufacturing, sales, and customer service.

### Associate In Applied Science Degree (AAS) A20100

#### Fall Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ACA 115	Success & Study Skills	0	2	0	1
BIO 111*	General Biology I	3	3	0	4
CHM 151*	General Chemistry I	3	3	0	4
ENG 111*	Expository Writing	3	0	0	3
MAT 171*	Precalculus Algebra	3	0	0	3
<b>Total =</b>					<b>15</b>

#### Spring Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
BIO 112*	General Biology II	3	3	0	4
CHM 132*	Organic & Biochemistry	3	3	0	4
ENG 114*	Professional Research & Reporting	3	0	0	3
MAT 151*	Statistics I	3	2	0	4
<b>Total =</b>					<b>15</b>

#### Summer Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
BIO 275	Microbiology	3	3	0	4
BTC 181	Basic Lab Techniques	3	3	0	4
	Social & Behavioral Sciences*	3	0	0	3
or	Humanities/Fine Arts*				
<b>Total =</b>					<b>11</b>

#### Fall Semester 2

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
BTC 250	Molecular Genetics	3	0	0	3
BTC 282	Biotech Fermentation I	2	6	0	4
BTC 285	Cell Culture	2	3	0	3
CIS 110*	Introduction to Computers	2	2	0	3
	Social & Behavioral Sciences	3	0	0	3
or	Humanities/Fine Arts				
<b>Total =</b>					<b>16</b>

#### Spring Semester 2

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
BTC 270	Recombinant DNA Techniques	3	3	0	4
BTC 283	Bioprocess Techniques	2	6	0	4
BTC 286	Immunology Techniques	3	3	0	4
COM 231*	Public Speaking	3	0	0	3
<b>Total =</b>					<b>15</b>

#### Summer Semester 2

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
BTC 288	Biotech Lab Experience	0	6	0	2
or COE 213	Co-op Work Experience	0	0	30	3
<b>Total =</b>					<b>2 or 3</b>
<b>Total Credit Hours =</b>					<b>74 - 75</b>

\* Courses offered at Haywood Community College  
37 hours may be earned at Haywood Community College

## Building Construction Technology–Green Building

The Building Construction Technology curriculum is designed to provide students with an overview of the building construction industry. Construction labs/lecture courses and other related classes, provide students with up-to-date knowledge on materials, trends, and techniques of the ever-changing construction industry.

Course work includes basic construction concepts such as general construction, blueprint reading, construction estimating, and project management. Students will also diversify their knowledge of construction in other areas like electrical wiring, construction surveying, plumbing, statics/strength of materials, and HVAC.

Graduates should qualify for entry-level jobs in any general construction setting and be able to advance quickly to management positions such as supervisors, superintendents, project coordinators, project planners, estimators, and inspectors.

### Associate in Applied Science Degree (AAS) A35140

#### Fall Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ACA 111	College Student Success	1	0	0	1
CST 111	Construction I	3	3	0	4
BPR 130	Blueprint Reading/Construction	1	2	0	2
CAR 114	Residential Building Codes	3	0	0	3
MAS 140	Introduction to Masonry	1	2	0	2
	Elective				3
					<b>Total= 15</b>

#### Spring Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
CST 112	Construction II	3	3	0	4
CST 251	Electrical Wiring Systems	2	2	0	3
CST 131	OSHA/Safety/Certification	2	2	0	3
ENG 111	Expository Writing	3	0	0	3
PLU 111	Introduction to Basic Plumbing	1	3	0	2
					<b>Total = 15</b>

#### Summer Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
DFT 119	Basic CAD	1	2	0	2
COM 231	Public Speaking	3	0	0	3
or COM 120	Interpersonal Communications				
CIS 110	Introduction to Computers	2	2	0	3
	Mathematics				3
					<b>Total = 11</b>

#### Fall Semester 2

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
CST 113	Construction III	3	3	0	4
CST 211	Construction Surveying	2	3	0	3
CST 231	Soil and Site Work	3	2	0	4
CST 241	Planning/Estimating I	2	2	0	3
					<b>Total = 14</b>

#### Spring Semester 2

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
CST 221	Statics/Structures	3	3	0	4
CST 242	Planning and Est. II	3	2	0	4
	Humanities/Fine Arts				3
	Social & Behavioral Sciences				3
					<b>Total = 14</b>
					<b>Total Credit Hours = 69</b>

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**Programs of Study**

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**Electives: Choose at least 3 hours from the following courses**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
AHR 211 Residential System Design	2	2	0	3
ALT 120 Renewable Energy Tech	2	2	0	3
ALT 220 Photovoltaic System Tech	2	3	0	3
BUS 280 REAL Small Business	4	0	0	4
COE 111 Co-Op Work Experience I	0	0	10	1
CST 244 Sustainable Building Design	3	2	0	3
ELC 113 Basic Wiring I	2	6	0	4
ELC 121 Electrical Estimating	1	2	0	2
ENV 110 Environmental Science	3	0	0	3
LAR 120 Sustainable Development	2	2	0	3
PLU 211 Commercial/Ind. Plumbing	2	2	0	3

**Mathematics: Choose 3 hours from the following courses**

MAT 115 Mathematical Models	2	2	0	3
MAT 120 Geometry and Trigonometry	2	2	0	3
MAT 151 Statistics I	3	0	0	3
MAT 171 Precalculus Algebra	3	0	0	3

**Diploma in Building Construction Technology D35140**

**Fall Semester 1**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
CST 111 Construction I	3	3	0	4
BPR 130 Blueprint Reading/Construction	1	2	0	2
CAR 114 Residential Building Codes	3	0	0	3
MAS 140 Introduction to Masonry	1	2	0	2
Elective				3

**Total = 14**

**Spring Semester 1**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
CST 112 Construction II	3	3	0	4
CST 251 Electrical Wiring Systems	2	2	0	3
CST 131 OSHA/Safety/Certification	2	2	0	3
ENG 111 Expository Writing	3	0	0	3
PLU 111 Introduction to Basic Plumbing	1	3	0	2

**Total = 15**

**Summer Semester 1**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
DFT 119 Basic CAD	1	2	0	2
CIS 110 Introduction to Computers	2	2	0	3
Mathematics				3

**Total = 8**

**Total Credit Hours = 37**

**Certificate in Building ConstructionTechnology C35140**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
BPR 130	Blueprint Reading/Construction	1	2	0	2
CAR 114	Residential Building Codes	3	0	0	3
CST 111	Construction I	3	0	0	3
MAS 140	Introduction to Masonry	1	2	0	2
<b>Total =</b>					<b>10</b>

**Spring Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
CST 112	Construction II	3	3	0	4
CST 131	OSHA/Safety/Certification	2	2	0	3
<b>Total =</b>					<b>7</b>
<b>Total Credit Hours =</b>					<b>17</b>

**Certificate in Building ConstructionTechnology: Green Building Concentration C35140GB**

Green building is the practice of construction that minimizes the impact on the natural environment while making buildings more energy efficient and healthier for humans. This certificate is designed to provide students with an overview of the trends and techniques used in the green building industry. Classroom lectures and laboratory exercises will provide hands-on experience in design, construction, and certification of green buildings. Course work focuses on green construction practices, blueprint reading, building codes, energy efficiency, and sustainable site development. Individuals in this program should have an interest in building construction, conservation of natural resources, and in working with the public and professionals from many fields.

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
AHR 211	Residential System Design	2	2	0	3
or CST 231	Soil and Site Work	3	2	0	4
CST 244	Sustainable Building Design	2	3	0	3
LAR 120	Sustainable Development	2	2	0	3
<b>Total =</b>					<b>9-10</b>

**Spring Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ENV 110	Environmental Science	3	0	0	3
<b>Total =</b>					<b>3</b>
<b>Total Credit Hours =</b>					<b>12-13</b>

**Certificate in Building ConstructionTechnology: Solar Photovoltaic Concentration C35140SP**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
BPR 130	Blueprint Reading/Construction	1	2	0	2
CAR 114	Residential Building Codes	3	0	0	3
CST 111	Construction I	3	3	0	4
<b>Total =</b>					<b>9</b>

**Spring Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
CST 112	Construction II	3	3	0	4
ALT 220	Photovoltaic Systems Technology	2	3	0	3
<b>Total =</b>					<b>7</b>
<b>Total Credit Hours =</b>					<b>16</b>

## Business Administration

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.

### Associate In Applied Science Degree (AAS) A25120

#### Fall Semester 1

		Lec	Lab	Clin	Cred
ACA 111	College Student Success	1	0	0	1
ACC 120	Principles of Financial Accounting	3	2	0	4
BUS 110	Introduction to Business	3	0	0	3
CIS 110	Introduction to Computers	2	2	0	3
ENG 111	Expository Writing	3	0	0	3
OST 131	Keyboarding	1	2	0	2
<b>Total =</b>					<b>16</b>

#### Spring Semester 1

		Lec	Lab	Clin	Cred
ACC 121	Principles of Managerial Accounting	3	2	0	4
BUS 115	Business Law I	3	0	0	3
CTS 130	Spreadsheet	2	2	0	3
OST 136	Word Processing	2	2	0	3
	Social & Behavioral Sciences	3	0	0	3
<b>Total =</b>					<b>16</b>

#### Summer Semester 1

		Lec	Lab	Clin	Cred
ENG 114	Professional Research & Reporting	3	0	0	3
	Humanities/Fine Arts	3	0	0	3
	Mathematics	3	0	0	3
<b>Total =</b>					<b>9</b>

#### Fall Semester 2

		Lec	Lab	Clin	Cred
ACC 150	Accounting Applications, Software	1	2	0	2
BUS 137	Principles of Management	3	0	0	3
BUS 153	Human Resources Management	3	0	0	3
CIS 165	Desktop Publishing I	2	2	0	3
or COE 111	Co-Op Work Experience I	1	0	10	1
ECO 251	Principles of Microeconomics	3	0	0	3
MKT 120	Principles of Marketing	3	0	0	3
<b>Total =</b>					<b>15</b>

#### Spring Semester 2

		Lec	Lab	Clin	Cred
BUS 125	Personal Finance	3	0	0	3
BUS 260	Business Communications	3	0	0	3
BUS 280	R.E.A.L. Small Business	4	0	0	4
MKT 220	Advertising and Sales Promotions	3	0	0	3
<b>Total =</b>					<b>13</b>

**Total Credit Hours = 69 - 71**

#### Mathematics: Choose 3 hours from the following courses

MAT 140	Survey of Mathematics	3	0	0	3
MAT 151	Statistics I	3	0	0	3
MAT 171	Pre-calculus Algebra	3	0	0	3

**Diploma in Business Administration D25120**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ACC 120	Principles of Financial Accounting	3	2	0	4
BUS 110	Introduction to Business	3	0	0	3
ECO 251	Principles of Microeconomics	3	0	0	3
MKT 120	Principles of Marketing	3	0	0	3
OST 131	Keyboarding	1	2	0	2

**Total = 15**

**Spring Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ACC 121	Principles of Managerial Accounting	3	2	0	4
BUS 125	Personal Finance	3	0	0	3
CIS 110	Introduction to Computers	2	2	0	3
ENG 111	Expository Writing	3	0	0	3

**Total = 13**

**Summer Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
BUS 115	Business Law I	3	0	0	3
BUS 137	Principles of Management	3	0	0	3
ENG 114	Professional Research & Reporting	3	0	0	3

**Total = 9**

**Total Credit Hours = 37**

**Certificate in Business Administration C25120**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ACC 120	Principles of Financial Accounting	3	2	0	4
BUS 110	Introduction to Business	3	0	0	3
BUS 137	Principles of Management	3	0	0	3
CIS 110	Introduction to Computers	2	2	0	3
MKT 120	Principles of Marketing	3	0	0	3

**Total = 16**

**Total Credit Hours = 16**

**Business Administration - Office Software Certificate C251200S**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ACC 120	Principles of Financial Accounting	3	2	0	4
CIS 110	Introduction to Computers	2	2	0	3
CIS 165	Desktop Publishing I	2	2	0	3

**Total = 10**

**Spring Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ACC 150	Accounting Applications, Software	1	2	0	2
CTS 130	Spreadsheet	2	2	0	3
OST 136	Word Processing	2	2	0	3

**Total = 8**

**Total Credit Hours = 18**

## College Transfer

Students wishing to complete a four-year bachelor's degree from any of the 16 schools in the University of North Carolina system or from private schools in America have two transfer options.

The Associate in Arts and the Associate in Science degrees ensure students transfer as juniors with 65 hours of transferable credit, which includes the 44-hour general education core. These two degrees parallel the freshmen and sophomore years at a four-year university.

As a second option, students may complete the 44-hour general education (diploma) and transfer as sophomores.

All courses in the degree programs and the 44-hour core are designed to give students a solid, well-rounded foundation in the arts and the sciences before going on to four-year institutions where they will take the remainder of their course work to complete their bachelor's degree.

Students must earn a grade of C or better on all course work and have an overall GPA of 2.0 on a 4.0 scale. Although the general education core and the degree programs meet the state's general education requirements, students must meet the transfer institution's physical education and foreign language requirements, which may vary from institution to institution.

**Associate in Arts : A10100 Degree:** Offered day and evening with some on-line courses available through distance learning.

The Associate in Arts degree is recommended for students wishing to major in English, communication, foreign language, social science, education, fine arts, or humanities.

### English Composition : 9 semester hours required

Course No.	Course Title	Sem Hrs.
ENG 111	Expository Writing	3
ENG 113	Literature-Based Research	3
or ENG 114	Professional Research & Reporting	3
COM 231	Public Speaking	3

### Humanities : 12 semester hours from 3 disciplines; at least one course must be a literature

Course No.	Course Title	Sem Hrs.
ENG 231	American Literature I	3
ENG 232	American Literature II	3
ENG 233	Major American Writers	3
ENG 241	British Literature I	3
ENG 242	British Literature II	3
ENG 251	Western World Lit. I	3
ENG 252	Western World Lit. II	3

### Choose three courses from at least two different disciplines.

ART 111	Art Appreciation	3
ART 114	Art History Survey I	3
ART 115	Art History Survey II	3
COM 120	Interpersonal Communication	3
DRA 111	Theatre Appreciation	3
MUS 110	Music Appreciation	3
PHI 210	History of Philosophy	3
PHI 215	Philosophical Issues	3
PHI 220	Western Philosophy I	3
PHI 221	Western Philosophy II	3
PHI 230	Introduction to Logic	3
REL 110	World Religions	3
REL 111	Eastern Religions	3
REL 112	Western Religions	3
REL 211	Intro to Old Testament	3
REL 212	Intro to New Testament	3
SPA 111	Elementary Spanish I	3
SPA 112	Elementary Spanish II	3

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**Programs of Study**

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**Social / Behavioral Sciences : 12 semester hours from 3 disciplines;  
at least one course must be a history**

Course No.	Course Title	Sem Hrs.
ANT 210	General Anthropology	3
ANT 220	Cultural Anthropology	3
ANT 230	Physical Anthropology	3
ANT 240	Archaeology	3
ECO 251	Principles of Microeconomics	3
ECO 252	Principles of Macroeconomics	3
HIS 121	Western Civilization I	3
HIS 122	Western Civilization II	3
HIS 131	American History I	3
HIS 132	American History II	3
POL 120	American Government	3
PSY 150	General Psychology	3
PSY 241	Developmental Psychology	3
SOC 210	Intro to Sociology	3
SOC 213	Sociology of the Family	3

**Mathematics : 6 semester hours required**

Course No.	Course Title	Sem Hrs.
MAT 140	Survey of Mathematics	3
MAT 151	Statistics I3	
MAT 171	Precalculus Algebra	3
MAT 172	Precalculus Trigonometry	3

**Science : 8 semester hours required in a 2 course sequence**

Course No.	Course Title	Sem Hrs.
BIO 111	General Biology I	4
BIO 112	General Biology II	4
or		
BIO 140	Environmental Biology	3
and		
BIO 140 A	Environmental Biology Lab	1
CHM 151	General Chemistry I	4
CHM 152	General Chemistry II	4

**Required Classes:**

Course No.	Course Title	Sem Hrs.
ACA 122	College Transfer Success	1
CIS 110	Introduction to Computers	3
HUM 220	Human Values and Meaning	3

**General Electives : 11 semester hours :** These courses must be transfer level and should be selected with the advisor's assistance, taking into account the pre-major options approved by the University of North Carolina System available on the state web site.

The final line in the course description from the catalog indicates if the course is a transfer level course.

**Associate in Science: A 10400 Degree:** Offered day and evening with some on-line courses available through distance learning.

The Associate in Science degree is recommended for students wishing to major in mathematics, engineering, computer science, the sciences, or professional programs that require a strong mathematics and science background.

**English Composition (9 semester hours required)**

Course No.	Course Title	Sem Hrs.
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**Programs of Study**

ENG 111	Expository Writing	3
ENG 113	Literature-Based Research	3
or		
ENG 114	Professional Research & Reporting	3
COM 231	Public Speaking	3

**Humanities : 9 semester hours from 3 disciplines; at least one course must be a literature**

Course No.	Course Title	Sem Hrs.
ENG 231	American Literature I	3
ENG 232	American Literature II	3
ENG 233	Major American Writers	3
ENG 241	British Literature I	3
ENG 242	British Literature II	3
ENG 251	Western World Lit. I	3
ENG 252	Western World Lit. II	3

**Choose two courses from at least two different disciplines.**

ART 111	Art Appreciation	3
ART 114	Art History Survey I	3
ART 115	Art History Survey II	3
COM 120	Interpersonal Communication	3
DRA 111	Theatre Appreciation	3
MUS 110	Music Appreciation	3
PHI 210	History of Philosophy	3
PHI 215	Philosophical Issues	3
PHI 220	Western Philosophy I	3
PHI 221	Western Philosophy II	3
PHI 230	Introduction to Logic	3
REL 110	World Religions	3
REL 111	Eastern Religions	3
REL 211	Intro to Old Testament	3
REL 212	Intro to New Testament	3
SPA 111	Elementary Spanish I	3
SPA 112	Elementary Spanish II	3

**Social / Behavioral Sciences : 9 semester hours from 3 disciplines; at least one course must be a history**

Course No.	Course Title	Sem Hrs.
ANT 210	General Anthropology	3
ANT 220	Cultural Anthropology	3
ANT 230	Physical Anthropology	3
ANT 240	Archaeology	3
ECO 251	Principles of Microeconomics	3
ECO 252	Principles of Macroeconomics	3
HIS 121	Western Civilization I	3
HIS 122	Western Civilization II	3
HIS 131	American History I	3
HIS 132	American History II	3
POL 120	American Government	3
PSY 150	General Psychology	3
PSY 241	Developmental Psychology	3
SOC 210	Intro to Sociology	3
SOC 213	Sociology of the Family	3

**Mathematics : 6 semester hours required**

Course No.	Course Title	Sem Hrs.
MAT 171	Precalculus Algebra	3
MAT 172	Precalculus Trigonometry	3

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**Programs of Study**

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**Science : 8 semester hours required in a 2 course sequence**

Course No.	Course Title	Sem Hrs.
BIO 111	General Biology I	4
BIO 112	General Biology II	4
or		
CHM 151	General Chemistry I	4
CHM 152	General Chemistry II	4

**Natural Sciences and Mathematics : 3 semester hours required**

Course No.	Course Title	Sem Hrs.
BIO 111	General Biology I	4
BIO 112	General Biology II	4
BIO 120	Introductory Botany	4
BIO 130	Introductory Zoology	4
BIO 140	Environmental Biology	3
BIO 140A	Environmental Biology Lab	1
CHM 132	Organic & Biochemistry	4
CHM 151	General Chemistry I	4
CHM 152	General Chemistry II	4
CIS 115	Intro to Programming & Logic	3
MAT 140	Survey of Mathematics	3
MAT 151	Statistics I3	
MAT 271	Calculus I 4	
MAT 272	Calculus II4	
MAT 273	Calculus III	4
PHY 251	General Physics I	4
PHY 252	General Physic II	4

**Required Courses:**

Course No.	Course Title	Sem Hrs.
ACA 122	College Transfer Success	1
CIS 110	Introduction to Computers	3
HUM 220	Human Values and Meaning	3

**Technical Electives : 14 semester hours from the following list**

Course No.	Course Title	Sem Hrs.
BIO 111	General Biology I	4
BIO 112	General Biology II	4
BIO 120	Introductory Botany	4
BIO 130	Introductory Zoology	4
BIO 140	Environmental Biology	3
BIO 140A	Environmental Biology Lab	1
BIO 163	Basic Anatomy & Physiology	5
BIO 168	Anatomy & Physiology I	4
BIO 169	Anatomy & Physiology II	4
BIO 175	General Microbiology	3
CHM 132	Organic & Biochemistry	4
CHM 151	General Chemistry I	4
CHM 152	General Chemistry II	4
CIS 115	Intro to Programming & Logic	3
CSC 134	C++ Programming	3
MAT 140	Survey of Mathematics	3
MAT 151	Statistics I3	
MAT 271	Calculus I 4	
MAT 272	Calculus II4	
MAT 273	Calculus III	4
MAT 285	Differential Equations	3

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## Programs of Study

PHY 251	General Physics I	4
PHY 252	General Physics II	4

**44-Hour General Education Core :** Courses should be selected from the categories listed under the Associate in Arts or Associate in Sciences.

English Composition	6 semester hours
Humanities	12 semester hours

**At least one course must be a literature course. Social/Behavioral Sciences 12 semester hours**

**From 3 different disciplines**

**At least one course must be a history**

Natural Sciences	8 semester hours
Mathematics	6 semester hours
Total	44 semester hours

## Associate in General Education Degree Program

The Associate in General Education (AGE) curriculum is designed for individuals wishing to broaden their education, with emphasis on personal interest, growth and development. The two-year General Education program provides students opportunities to study English, literature, fine arts, philosophy, social science, science and mathematics at the college level. All courses in the program are college-level courses. Many of the courses are equivalent to college transfer courses; however, the program is not principally designed for college transfer. List of transfer courses are available in the Arts and General Education office and on the HCC Website. The number of required courses in this degree program is kept to a minimum in order to allow a student and his or her academic advisor to design a personal program of study that meets the student's specific educational goals. Courses may be taken in any sequence as long as prerequisites are met. The AGE program must be comprised of courses from the college's approved programs of study.

**A10300 Degree :** Offered day and evening with some on-line courses available through distance learning.

*Advisement :* For general advisement information or individualized program (Option I) advisement, contact the Arts and General Education Department at (828)-627-4570 or the Admissions Office at (828)- 627-4500. For the early childhood emphasis (Option II) advisement, contact the Education Department at (828)- 627-4693.

**A.G.E. Degree :** See options below. Students should confer with their academic advisers to develop an individualized education plan which meets general education and major course requirements.

**Option 1-Individualized Program Emphasis :** This option leads to an A.G.E. degree and requires completion of a minimum of 64 semester hours including coursework in general education and an individualized major.

**General Education :** Complete 31 semester hours as set forth below :

Communication : COM 120 or 231, ENG 111, and ENG 113 or 114.

Information Technology : CIS 110.

Humanities : Six semester hours selected from ART 111, 114, 115, COM 120, DRA 111, ENG 231, 232, 233, 241, 242, 251, 252, MUS 110, PHI 210, 215, 220, 221, 230, REL 110, 111, 211, 212.

Natural Science and Mathematics : Either MAT 115, 140, 151, 171, or 175; and either BIO 111, 168, CHM 151, or PHY 251.

Social and Behavioral Sciences : Six semester hours selected from ANT 210, 220, 230, 240, ECO 251, 252, HIS 121, 122, 131, 132, POL 120, PSY 150, SOC 210.

**Individualized Study :** Complete a minimum of 33 semester hours of additional course work from courses approved for associate degrees. Courses should be selected with the individual educational plan determined by the student and his or her adviser. A maximum of three semester hours in physical education may be elected but college orientation, and/or college study skills courses may not be included.

**Option 2 - Early Childhood Emphasis (B-K) :** This option leads to an A.C.E. degree, requiring 68 semester hours, designed to transfer to the B-K licensure degree program at WCU. This option, when completed, allows students to transfer credit earned at HCC towards a Bachelor of Science in Birth-Kindergarten with teacher licensure upon admission to WCU and the Birth-Kindergarten Teacher Licensure Program. Students not seeking B-K licensure may transfer additional courses to WCU. Contact the Education Department or your adviser for further details.

**General Education :** Complete 47 semester hours as set forth below :

Communication : COM 120 or 231, ENG 111, and either ENG 113 or 114.

Information Technology : CIS 110.

Humanities : Either ENG 233, 251, or 252, and two courses selected from two different disciplines from ART 111, DRA 111, MUS 110, PHI 210, 215, 220, 221, or 230 or REL 110, 111, 211, or 212.

Natural Science and Mathematics : MAT 151 and either 171 or 175, and either BIO 111 and 112, or CHM 151 and 152.

Social and Behavioral Sciences : Either HIS 121, 122, 131, or 132, and three courses from at least two different disciplines selected from ANT 210, 220, 230, 240, ECO 251, 252, POL 120, PSY 150, and SOC 210.

**Professional Study :** Complete 21 semester hours consisting of EDU 144, 145, 146, 151, 221, 234, and 259. While not required at HCC, in order to facilitate transfer, students in the licensure option should complete the PRAXIS I test during the fall semester of their second year. The PRAXIS I Academic Skills Assessments are designed to be taken early in a student's college career to measure reading, writing, mathematics, and listening skills. The reading, writing, and mathematics assessments are available through either a paper-based or computer-based format.

### Suggested Schedule

#### First Year

Fall Semester : 16-19 semester hours

COM 120 Interpersonal Communication	3
or COM 231 Public Speaking	3
ENG 111 Expository Writing	3
Social and Behavioral Sciences	3
Individualized or Professional Study	7-10

Spring Semester : 16-19 semester hours

CIS 110 Introduction to Computers	3
ENG 113 Literature-Based Research	3
or ENG 114 Prof. Research & Reporting	3
Humanities	3
Social and Behavioral Sciences	3

Summer Session : 0-8 semester hours

Individualized or Professional Study	0-8
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#### Second Year

Fall Semester : 16-19 semester hours

Humanities	3
Natural Sciences & Mathematics	4-7
Social and Behavioral Sciences	0-3
Individualized or Professional Study	6-10

Spring Semester : 16-19 semester hours

Humanities	3
Natural Sciences & Mathematics	4-7
Social and Behavioral Sciences	0-3
Individualized or Professional Study	6-10

**Option 3 - Agriculture Education:** This option, requiring 66 semester hours leads to an AGE degree at Haywood Community College and is designed to position students in Western North Carolina to apply to the 4-year Agricultural and Extension Education degree program at NCSU or NCA&T. This program begins the initial coursework necessary for a student to ultimately teach agriculture education in the public school systems in North Carolina. Students enrolled in the AGE program should let their advisor know of their educational goals as soon as possible. Faculty at HCC will work with the student to maximize their potential for success.

Students must also individually determine when to apply to NCSU or NCA&T. Admission to either program is not guaranteed. It is permitted to be a dual enrolled student in HCC's AGE program and one of the four-year programs. There are on-line courses available from both Baccalaureate level programs that would allow a student to complete additional courses towards their 4-year degree program requirements prior to relocating to the university. Students accepted to either college's 4-year program can expect an additional 1-2 years in residence on campus after completing all available NCSU or NCA&T on-line offerings.

**General Education:**

Communication: COM 231, ENG 111, ENG 114

Information Technology: CIS 110

Humanities: Six semester hours selected from ENG 251, 252, REL 110, 211, and 212

(must be from 2 different disciplines)

Natural Science and Mathematics: BIO 111, BIO 112, BIO 120, MAT 140 and MAT 151

Social and Behavioral Sciences: SOC 213

**Professional Study: HOR 160, HOR 162, HOR 168, FOR 173**

**Suggested Schedule**

**Fall Semester 1**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ACA 111 College Student Success	1	0	0	1
BIO 111 General Biology I	3	3	0	4
CIS 110 Introduction to Computers	2	2	0	3
COM 231 Public Speaking	3	0	0	3
ENG 111 Expository Writing	3	0	0	3
MAT 140 Survey of Mathematics	3	0	0	3
PED Fitness Elective				1
			<b>Total=</b>	<b>18</b>

**Spring Semester 1**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
BIO 112 General Biology II	3	3	0	4
ENG 114 Prof. Research and Reporting	3	0	0	3
MAT 151 Statistics I	3	0	0	3
SOC 213 Sociology of the Family	3	0	0	3
REL 110 World Religions	3	0	0	3
PED Activity Elective				1
			<b>Total =</b>	<b>17</b>

**Fall Semester 2**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
CHM 151 General Chemistry I	3	3	0	4
ENG 231 American Literature I	3	0	0	3
FOR 173 Forest Soils and Hydrology	2	3	0	3
HOR 160 Plant Materials I	2	2	0	3
HOR 162 Applied Plant Science	2	2	0	3
			<b>Total =</b>	<b>16</b>

**Spring Semester 2**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
BIO 120 Literature-Based Research	3	3	0	4
ECO 251 Prof Research & Reporting	3	0	0	3
HOR 168 Plant Propagation	2	2	0	3
Free Elective - must be part of CAA				3
Free Elective - must be part of CAA				3
			<b>Total =</b>	<b>16</b>

**Total Credit Hours = 67**

## Collision Repair and Refinishing Technology

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

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

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

### Associate in Collision Repair and Refinishing Technology (AAS) A60130

#### Fall Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ACA 111	College Student Success	1	0	0	1
AUB 111	Painting and Refinishing I	2	6	0	4
AUB 121	Non-Structural Damage I	1	4	0	3
AUB 131	Structural Damage I	2	4	0	4
AUB 134	Autobody MIG Welding	1	4	0	3
AUB 136	Plastics and Adhesives	1	4	0	3
AUB 160	Body Shop Operations	1	0	0	1
<b>Total =</b>					<b>19</b>

#### Spring Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
AUB 112	Painting and Refinishing II	2	6	0	4
AUB 122	Non structural Damage II	2	6	0	4
AUB 132	Structural Damage II	2	6	0	4
AUB 162	Autobody Estimating	1	2	0	2
AUB 114	Special Finishes	1	2	0	2
	Elective				2
<b>Total =</b>					<b>18</b>

#### Summer Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ENG 111	Expository Writing	3	0	0	3
CIS 110	Intro to Computers	2	2	0	3
<b>Total =</b>					<b>6</b>

#### Fall Semester 2

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
AUT 151	Brake System	2	3	0	3
AUT 161	Basic Auto Electricity	4	3	0	5
AUT 171	Auto Climate Control	2	4	0	4
COM 120	Interpersonal Communication	3	0	0	3
or COM 231	Public Speaking				
<b>Total =</b>					<b>15</b>

#### Spring Semester 2

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
AUT 141	Suspension and Steering Systems	2	3	0	3
MAT 121	Algebra/Trig	3	0	0	3
	Elective				2
	Humanities/Fine Arts				3
	Social & Behavioral Sciences				3
<b>Total =</b>					<b>14</b>
<b>Total Credit Hours =</b>					<b>72</b>

**Electives: Choose at least 4 hours from the following courses**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
AUB 141	Mech and Elect Components I	2	2	0	3
AUB 150	Automotive Detailing	1	3	0	2
AUT 212	Auto Shop Management	3	0	0	3
AUT 285	Introduction to Alternative Fuels	2	2	0	3
COE 111	Co-op Work Experience I	0	10	0	1
COE 112	Co-op Work Experience II	0	20	0	2
ISC 112	Industrial Safety	2	0	0	2
WLD 112	Basic Welding Processes	1	3	0	2

**Diploma in Collision Repair and Refinishing Technology D60130**

**Fall Semester 1**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
AUB 111 Painting and Refinishing I	2	6	0	4
AUB 121 Non-Structrual Damage I	1	4	0	3
AUB 131 Structural Damage I	2	4	0	4
AUB 134 Autobody MIG Welding	1	4	0	3
AUB 136 Plastics and Adhesives	1	4	0	3
AUB 160 Body Shop Operations	1	0	0	1

**Total = 18**

**Spring Semester 1**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
AUB 112 Painting and Refinishing II	2	6	0	4
AUB 122 Non structural Damage II	2	6	0	4
AUB 132 Structural Damage II	2	6	0	4
AUB 162 Autobody Estimating	1	2	0	2
AUB 114 Special Finishes	1	2	0	2
Elective				2

**Total = 18**

**Summer Semsester 1**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ENG 101 Applied Communications	3	0	0	3
or ENG 111 Expository Writing	3	0	0	3
Mathematics				3

**Total = 6**

**Total Credit Hours = 42**

**Certificate in Collision Repair and Refinishing Technology C60130**

**Fall Semester 1**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
AUB 111 Painting and Refinishing I	2	6	0	4
AUB 121 Non-Structural Damage I	4	4	0	3
AUB 131 Structural Damage I	2	4	0	4
AUB 134 Autobody MIG Welding	1	4	0	3
AUB 136 Plastics and Adhesives	1	4	0	3

**Total = 17**

**Total Credit Hours = 17**

## Computer Information Technology

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

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

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

### Associate In Applied Science Degree (AAS) A25260

#### Fall Semester 1

		Lec	Lab	Clin	Cred
ACA 111	College Student Success	1	0	0	1
CIS 110	Introduction to Computers	2	2	0	3
ENG 111	Expository Writing	3	0	0	3
NET 125	Networking Basics	1	4	0	3
NOS 110	Operating Systems Concepts	2	3	0	3
	Mathematics	3	0	0	3
<b>Total =</b>					<b>16</b>

#### Spring Semester 1

		Lec	Lab	Clin	Cred
CIS 115	Introduction to Programming and Logic	2	3	0	3
CTS 120	Hardware/Software Support	2	3	0	3
DBA 110	Database Concepts	2	3	0	3
NOS 130	Windows Single User	2	2	0	3
WEB 210	Web Design	3	0	0	3
<b>Total =</b>					<b>15</b>

#### Summer Semsester 1

		Lec	Lab	Clin	Cred
ENG 114	Professional Research & Reporting	3	0	0	3
	Humanities/Fine Arts	3	0	0	3
	Social & Behavioral Sciences	3	0	0	3
<b>Total =</b>					<b>9</b>

#### Fall Semester 2

		Lec	Lab	Clin	Cred
CSC 139	Visual Basic Programming	2	3	0	3
CTS 285	Systems Analysis & Design	3	0	0	3
DBA 120	Database Programming	2	2	0	3
NOS 230	Windows Administration I	2	2	0	3
SEC 110	Security Concepts	3	0	0	3
<b>Total =</b>					<b>15</b>

#### Spring Semester 2

		Lec	Lab	Clin	Cred
BUS 110	Introduction to Business	3	0	0	3
CTS 289	System Support Project	1	4	0	3
NOS 120	Linux/UNIX /Single User	2	2	0	3
WEB 180	Active Server Pages	2	2	0	3
<b>Total =</b>					<b>12</b>

**Total Credit Hours = 67**

**Mathematics: Choose 3 hours from the following courses**

MAT 140	Survey of Mathematics	3	0	0	3
MAT 151	Statistics I	3	0	0	3
MAT 171	Precalculus Algebra	3	0	0	3

**Diploma in Computer Information Technology D25260**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
CIS 110	Introduction to Computers	2	2	0	3
ENG 111	Expository Writing	3	0	0	3
NET 125	Networking Basics	1	4	0	3
NOS 110	Operating Systems Concepts	2	3	0	3
SEC 110	Security Concepts	3	0	0	3

**Total = 15**

**Spring Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
CIS 115	Introduction to Programming and Logic	2	3	0	3
CTS 120	Hardware/Software Support	2	3	0	3
DBA 110	Database Concepts	2	3	0	3
NOS 130	Windows Single User	2	2	0	3
WEB 210	Web Design	3	0	0	3

**Total = 15**

**Summer Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
BUS 110	Introduction to Business	3	0	0	3
ENG 114	Professional Research & Reporting	3	0	0	3

**Total = 6**

**Total Credit Hours = 36**

**Certificate in Computer Information Technology C25260**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
NET 125	Networking Basics	1	4	0	3
NOS 110	Operating Systems Concepts	2	3	0	3

**Total = 6**

**Spring Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
CIS 115	Introduction to Programming and Logic	2	3	0	3
DBA 110	Database Concepts	2	3	0	3
WEB 210	Web Design	3	0	0	3

**Total = 9**

**Total Credit Hours = 15**

## Computer-Integrated Machining

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 productions, 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 exams.

### Associate in Applied Science Degree (AAS) A50210

#### Fall Semester 1

	Lec	Lab	Clin	Cred
ACA 111 College Student Success	1	0	0	1
BPR 111 Blueprint Reading	1	2	0	2
CIS 110 Introduction to Computers	2	2	0	3
MAC 111 Machining Technology I	2	12	0	6
MAC 114 Intro to Metrology	2	0	0	2
MAC 121 Intro to CNC	2	0	0	2
MAC 151 Machining Calculations	1	2	0	2
MEC 142 Physical Metallurgy	1	2	0	2
			<b>Total=</b>	<b>20</b>

#### Spring Semester 1

	Lec	Lab	Clin	Cred
MAC 112 Machining Technology II	2	12	0	6
MAC 115 Grinding Operations	2	2	0	3
MAC 122 CNC Turning	1	3	0	2
MAC 124 CNC Milling	1	3	0	2
MAC 174 Manual Turning	1	3	0	2
Elective				2
			<b>Total =</b>	<b>17</b>

#### Summer Semester 1

	Lec	Lab	Clin	Cred
COM 120 Interpersonal Communications	3	0	0	3
or COM 231 Public Speaking				
ENG 111 Expository Writing	3	0	0	3
Math	3	0	0	3
			<b>Total =</b>	<b>9</b>

#### Fall Semester 2

	Lec	Lab	Clin	Cred
DFT 151 CAD I	2	3	0	3
MAC 113 Machining Technology III	2	12	0	6
MAC 142 Machining Applications	2	6	0	4
Elective				2
			<b>Total =</b>	<b>15</b>

#### Spring Semester 2

	Lec	Lab	Clin	Cred
MAC 214 Machining Technology IV	2	12	0	6
Humanities/Fine Art	3	0	0	3
Social & Behavioral Science	3	0	0	3
Elective				1
			<b>Total =</b>	<b>13</b>
			<b>Total Credit Hours =</b>	<b>74</b>

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**Programs of Study**

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**Electives: Choose 5 hours from the following courses**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
COE 111	Co-op Work Experience I	0	0	10	1
COE 112	Co-op Work Experience I	0	0	20	2
MAC 152	Adv Machining Calc	1	2	0	2
MAC 215	Machining Technology V	2	12	0	6
MAC 222	Advanced CNC Turning	1	3	0	2
MAC 224	Advanced CNC Milling	1	3	0	2
MAC 229	CNC Programming	2	0	0	2
WLD 112	Basic Welding Processes	1	3	0	2
MAC 233	Appl in CNC Machining	2	12	0	6
MAC 226	CNC EDM Machining	1	3	0	2
MAC 234	Adv Four/Five-Axis Machining	3	9	0	6
MEC 231	Comp-Aided Manufact I	1	4	0	3

**Mathematics: Choose 3 hours from the following courses**

MAT 140	Survey of Mathematics	3	0	0	3
MAT 115	Mathematical Models	2	2	0	3
MAT 120	Geometry and Trigonometry	2	2	0	3
MAT 121	Algebra/Trigonometry	2	2	0	3
*MAT 101	Applied Mathematics I	2	2	0	3

\* Diploma Only

**Diploma in Computer-Integrated Machining D50210**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
BPR 111	Blueprint Reading	1	2	0	2
CIS 110	Introduction to Computers	2	2	0	3
MAC 111	Machining Technology I	2	12	0	6
MAC 114	Intro to Metrology	2	0	0	2
MAC 121	Intro to CNC	2	0	0	2
MAC 151	Machining Calculations	1	2	0	2
MEC 142	Physical Metallurgy	1	2	0	2

**Total = 19**

**Spring Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
MAC 174	Manual Turning				2
MAC 112	Machining Technology II				6
MAC 115	Grinding Operations				3
MAC 122	CNC Turning				2
MAC 124	CNC Milling				2
	Elective				2

**Total = 17**

**Summer Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
	English	3	0	0	3
	Mathematics	3	0	0	3

**Total = 6**

**Total Credit Hours = 42**

**Certificate in Computer-Integrated Machining D50210**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
BPR 111	Blueprint Reading	1	2	0	2
MAC 111	Machining Technology I	2	12	0	6
MAC 114	Intro to Metrology	2	0	0	2
MAC 121	Intro to CNC	2	0	0	2

**Total = 12**  
**Total Credit Hours = 12**

## Cosmetic Arts

The Cosmetology curriculum is designed to provide competency-based knowledge, scientific/artistic principles, and hands-on fundamentals associated with the cosmetology industry. The curriculum provides a simulated salon environment which 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 related businesses.

Graduation requires the listed courses, HCC Cosmetic Art Competencies, NC State Board of Cosmetic Arts requirements, and 1500 hours and have a 2.0 GPA or higher before making application to take the licensing exam.

### Associate In Applied Science Degree (AAS) A55140

#### Fall Semester 1

		Lec	Lab	Clin	Cred
ACA 111	College Student Success	1	0	0	1
COS 111	Cosmetology Concepts I	4	0	0	4
COS 112	Salon I	0	24	0	8
COS 260	Design Applications	1	3	0	2
<b>Total =</b>					<b>15</b>

#### Spring Semester 1

		Lec	Lab	Clin	Cred
COS 113	Cosmetology Concepts II	4	0	0	4
COS 114	Salon II	0	24	0	8
COS 223	Contemporary Hair Color	1	3	0	2
ENG 111	Expository Writing	3	0	0	3
	Social & Behavioral Sciences	3	0	0	3
<b>Total =</b>					<b>20</b>

#### Summer Semester 1

		Lec	Lab	Clin	Cred
BIO 111	General Biology	2	2	0	3
or BIO 160	Intro to Life Sciences				4
COS 115	Cosmetology Concepts III	4	0	0	4
COS 116	Salon III	0	12	0	4
	Humanities/Fine Arts	3	0	0	3
<b>Total =</b>					<b>14-15</b>

#### Fall Semester 2

		Lec	Lab	Clin	Cred
BUS 280	R.E.A.L. Small Business	4	0	0	4
COM 120	Interpersonal Communication	3	0	0	3
or COM 231	Public Speaking				
COS 117	Cosmetology Concepts IV	2	0	0	2
COS 118	Salon IV	0	21	0	7
COS 240	Contemporary Design	1	3	0	2
<b>Total =</b>					<b>18</b>

**Total Credit Hours = 67-68**

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**Programs of Study**

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**Diploma in Cosmetic Arts D55140**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
COS 111	Cosmetology Concepts I	4	0	0	4
COS 112	Salon I	0	24	0	8
<b>Total =</b>					<b>12</b>

**Spring Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
COS 113	Cosmetology Concepts II	4	0	0	4
COS 114	Salon II	0	24	0	8
ENG 111	Expository Writing	3	0	0	3
<b>Total =</b>					<b>15</b>

**Summer Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
COS 115	Cosmetology Concepts III	4	0	0	4
COS 116	Salon III	0	12	0	4
	Social & Behavioral Sciences	3	0	0	3
<b>Total =</b>					<b>11</b>

**Fall Semester 2**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
COS 117	Cosmetology Concepts IV	2	0	0	2
COS 118	Salon IV	0	21	0	7
<b>Total =</b>					<b>9</b>
<b>Total Credit Hours =</b>					<b>47</b>

## Cosmetology Instructor

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

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

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

Graduation requires the listed courses, HCC Cosmetic Art Competencies, NC State Board of Cosmetic Arts requirements, and 800 hours and have a 2.0 GPA or higher before making application to take the teaching licensing exam.

This program may be completed on a part-time basis over four semesters.

### Certificate in Cosmetology Instructor C55160

#### Fall Semester 1

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
COS 271 Instructor Concepts I	5	0	0	5
COS 272 Instructor Practicum I	0	21	0	7
			<b>Total =</b>	<b>12</b>

#### Spring Semester 1

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
COS 273 Instructor Concepts II	5	0	0	5
COS 274 Instructor Practicum II	0	21	0	7
			<b>Total =</b>	<b>12</b>

**Total Credit Hours = 24**

## Criminal Justice Technology

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, state correctional officer, and loss prevention specialist.

### Associate in Applied Science Degree (AAS) A55180

#### Fall Semester 1

		Lec	Lab	Clin	Cred
ACA 111	College Student Success	1	0	0	1
CJC 111	Introduction to Criminal Justice	3	0	0	3
CJC 112	Criminology	3	0	0	3
CJC 121	Law Enforcement Operations	3	0	0	3
CJC 141	Corrections	3	0	0	3
CIS 110	Introduction to Computers	2	2	0	3
<b>Total =</b>					<b>16</b>

#### Spring Semester 1

		Lec	Lab	Clin	Cred
CJC 113	Juvenile Justice	3	0	0	3
CJC 132	Court Procedures & Evidence	3	0	0	3
CJC 213	Substance Abuse	3	0	0	3
CJC 222	Criminalistics	3	0	0	3
ENG 111	Expository Writing	3	0	0	3
<b>Total =</b>					<b>15</b>

#### Summer Semester 1

		Lec	Lab	Clin	Cred
PSY 150	General Psychology	3	0	0	3
COM 120	Interpersonal Communications	3	0	0	3
or COM 231	Public Speaking				
MAT 140	Survey of Mathematics	3	0	0	3
<b>Total =</b>					<b>9</b>

#### Fall Semester 2

		Lec	Lab	Clin	Cred
CJC 131	Criminal Law	3	0	0	3
CJC 160	Terrorism: Underlying Issues	3	0	0	3
CJC 214	Victimology	3	0	0	3
CJC 215	Organization and Administration	3	0	0	3
CJC 221	Investigative Principles	3	2	0	4
ENG 113	Literature-Based Research	3	0	0	3
or ENG 114	Professional Research & Reporting				
<b>Total =</b>					<b>15-16</b>

#### Spring Semester 2

		Lec	Lab	Clin	Cred
CJC 212	Ethics & Community Relations	3	0	0	3
CCT 110	Introduction to Cyber Crime	3	0	0	3
CJC 231	Constitutional Law	3	0	0	3
EPT 210	Response and Recovery	3	0	0	3
	Humanities/Fine Arts	3	0	0	3
<b>Total =</b>					<b>15</b>

**Total Credit Hours = 70-71**

**Criminal Justice Technology - Certificate in Emergency Management C55180**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
CJC 111	Introduction to Criminal Justice	3	0	0	3
CJC 121	Law Enforcement Operations	3	0	0	3
CJC 160	Terrorism: Underlying Issues	3	0	0	3
CJC 215	Organization and Administration	3	0	0	3
EPT 210	Response and Recovery	3	0	0	3

**Total = 15**  
**Total Credit Hours = 15**

## Early Childhood Education

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

Course work includes childhood growth and development; physical/nutritional needs of children; care and guidance of children; and communication skills with families 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 child care programs, preschools, public and private schools, recreational centers, Head Start Programs, and school-age programs.

### Associate In Applied Science Degree (AAS) A25220

#### Fall Semester 1

		Lec	Lab	Clin	Cred
ACA 111	College Student Success	1	0	0	1
CIS 110	Introduction to Computers	2	2	0	3
EDU 119	Early Childhood Education	4	0	0	4
EDU 131	Child Family and Community	3	0	0	3
EDU 144	Child Development I	3	0	0	3
ENG 111	Expository Writing	3	0	0	3
<b>Total =</b>					<b>17</b>

#### Spring Semester 1

		Lec	Lab	Clin	Cred
EDU 145	Child Development II	3	0	0	3
EDU 146	Child Guidance	3	0	0	3
EDU 151	Creative Activities	3	0	0	3
EDU 153	Health, Safety and Nutrition	3	0	0	3
ENG 113	Literature Based Research	2	2	0	3
or ENG 114	Professional Research and Reporting				
or COM 120	Interpersonal Communications				
or COM 231	Public Speaking				
<b>Total =</b>					<b>15</b>

**Students may choose from the following tracks to meet their individual goals in the Early Childhood field:**

**Early Childhood Education Tract - This track is designed to prepare the student to work in Early Childhood Program.**

#### Summer Semester 1

		Lec	Lab	Clin	Cred
EDU 234	Infants, Toddlers and Twos	3	0	0	3
EDU 259	Curriculum Planning	3	0	0	3
EDU 280	Literacy and Language Experiences	3	0	0	3
<b>Total =</b>					<b>9</b>

#### Fall Semester 2

		Lec	Lab	Clin	Cred
EDU 221	Children with Exceptionalities	3	0	0	3
EDU 261	Early Childhood Administration I	3	0	0	3
EDU 271	Educational Technology	2	2	0	3
	Social and Behavioral Sciences	3	0	0	3
	Natural Science and Mathematics	3	0	0	3 - 4
<b>Total =</b>					<b>15 - 16</b>

#### Spring Semester 2

		Lec	Lab	Clin	Cred
EDU 235	School Age Development and Program	2	0	0	2
EDU 254	Music and Movement	2	0	0	2
EDU 262	Early Childhood Administration II	3	0	0	3
EDU 284	Early Childhood Capstone Practicum	1	9	0	4

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**Programs of Study**

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Humanities/Fine Arts

3    0    0    3

**Total = 14**

**Total Credit Hours = 70 - 71**

**Early Childhood Education Administration - This track is designed to prepare the student to operate and administer an Early Childhood Center or Family Day Care Home.**

**Summer Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
EDU 221	Children with Exceptionalities	3	0	0	3
EDU 234	Infants, Toddlers and Twos	3	0	0	3
EDU 280	Literacy and Language Experiences	3	0	0	3

**Total = 9**

**Fall Semester 2**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
BUS 110	Introduction to Business	3	0	0	3
BUS 137	Principles of Management	3	0	0	3
EDU 261	Early Childhood Administration I	3	0	0	3
EDU 271	Educational Technology	2	2	0	3
	Natural Science and Mathematics	3	0	0	3 - 4

**Total = 15 - 16**

**Spring Semester 2**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
BUS 280	REAL Small Business	3	0	0	3
EDU 262	Early Childhood Administration II	3	0	0	3
EDU 284	Early Childhood Capstone Practicum	1	9	0	4
	Humanities/Fine Arts	3	0	0	3
	Social and Behavioral Sciences	3	0	0	3

**Total = 16**

**Total Credit Hours = 72 - 73**

**Early Childhood Education Special Education Track - This track is designed to prepare the student to work in Early Childhood Programs or public school classrooms with a focus on children with special needs.**

**Summer Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
EDU 221	Children with Exceptionalities	3	0	0	3
EDU 234	Infants, Toddlers and Twos	3	0	0	3
EDU 280	Literacy and Language Experiences	3	0	0	3

**Total = 9**

**Fall Semester 2**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
EDU 222	Learning with Behavior Disorders	3	0	0	3
EDU 223	Specific Learning Disabilities	3	0	0	3
EDU 271	Educational Technology	2	2	0	3
	Social and Behavioral Sciences	3	0	0	3
	Natural Science and Mathematics	3	0	0	3 - 4

**Total = 15 - 16**

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**Programs of Study**

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**Spring Semester 2**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
EDU 247	Sensory and Physical Disabilities	3	0	0	3
EDU 248	Developmental Delays	3	0	0	3
EDU 284	Early Childhood Capstone Practicum	1	9	0	4
	Humanities/Fine Arts	3	0	0	3

**Total = 13**

**Total Credit Hours = 69 - 70**

**Early Childhood Education College Transfer Track - This track is designed for the student who wishes to continue their education at a four-year university or college. It allows the student to complete additional required General Education transfer courses.**

**Summer Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
EDU 280	Literacy and Language Experiences	3	0	0	3
HIS 131	American History I	3	0	0	3
MAT 140	Survey of Mathematics	3	0	0	3
	Humanities/Fine Arts	3	0	0	3

**Total = 12**

**Fall Semester 2**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
BIO 111	General Biology	3	3	0	4
EDU 221	Children with Exceptionalities	3	0	0	3
EDU 271	Educational Technology	2	2	0	3
HEA 110	Personal Health and Wellness	3	0	0	3
PSY 150	General Psychology	3	0	0	3

**Total = 16**

**Spring Semester 2**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ANT 210	General Anthropology	3	0	0	3
BIO 130	Introductory Zoology	3	3	0	4
EDU 284	Early Childhood Capstone Practicum	1	9	0	4
	Humanities/Fine Arts	3	0	0	3

**Total = 14**

**Total Credit Hours = 74**

**Certificate in Early Childhood C55220**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
EDU 119	Early Childhood Education	4	0	0	4
EDU 144	Child Development I	3	0	0	3
EDU 146	Child Guidance	3	0	0	3
<b>Total =</b>					<b>10</b>

**Spring Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
EDU 145	Child Development II	3	0	0	3
EDU 151	Creative Activities	3	0	0	3
<b>Total =</b>					<b>6</b>

**Total Credit Hours = 16**

**Certificate in Early Childhood - Special Education C55220**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
EDU 221	Children with Exceptionalities	3	0	0	3
EDU 222	Learning with Behavior Disorders	3	0	0	3
EDU 223	Specific Learning Disabilities	3	0	0	3
<b>Total =</b>					<b>9</b>

**Spring Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
EDU 247	Sensory and Physical Disabilities	3	0	0	3
EDU 248	Developmental Delays	3	0	0	3
<b>Total =</b>					<b>6</b>

**Total Credit Hours = 15**

**Certificate in Early Childhood - Administration C55220**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
BUS 110	Introduction to Business	3	0	0	3
EDU 261	Early Childhood Administration I	3	0	0	3
<b>Total =</b>					<b>6</b>

**Spring Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
BUS 280	REAL Small Business	3	0	0	3
EDU 262	Early Childhood Administration II	3	0	0	3
<b>Total =</b>					<b>6</b>

**Total Credit Hours = 12**

## Electrical/Electronics Technology

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

Training, most of which is hands-on, will include such topics as AC/DC theory, basic wiring practices, digital electronics, programmable logic controllers, industrial motor controls, the National Electric Code, and other subjects as local needs require.

Graduates should qualify for a variety of jobs in the electrical/electronics field as an on-the-job trainee or apprentice assisting in the layout, installation, and maintenance of electrical/electronic systems

### Associate In Applied Science Degree (AAS) A35220

#### Fall Semester 1

		Lec	Lab	Clin	Cred
ACA 111	College Student Success	1	0	0	1
ELC 113	Basic Wiring I	2	6	0	4
ELC 118	National Electric Code	1	2	0	2
ELC 119	NEC Calculations	1	2	0	2
ELC 125	Diagrams and Schematics	1	2	0	2
ELC 112	DC/AC Electricity	3	6	0	5
or ELC 131	DC/AC Circuit Analysis				
<b>Total =</b>					<b>16</b>

#### Spring Semester 1

		Lec	Lab	Clin	Cred
ELC 114	Basic Wiring II	2	6	0	4
ELC 117	Motors & Controls	2	6	0	4
ELC 121	Electrical Estimating	1	2	0	2
	Mathematics	3	0	0	3
	Elective				2
<b>Total =</b>					<b>15</b>

#### Summer Semester 1

		Lec	Lab	Clin	Cred
ENG 111	Expository Writing	3	0	0	3
ELC 115	Industrial Wiring	2	6	0	4
CIS 110	Intro to Computers	2	2	0	3
	Elective	3	0	0	3
<b>Total =</b>					<b>13</b>

#### Fall Semester 2

		Lec	Lab	Clin	Cred
COM 231	Public Speaking	3	0	0	3
or COM 120	Interpersonal Communications				
ELC 128	Intro to PLCs	2	3	0	3
	Humanities/Fine Arts	3	0	0	3
	Social & Behavioral Sciences	3	0	0	3
	Elective				2
<b>Total =</b>					<b>14</b>

#### Spring Semester 2

		Lec	Lab	Clin	Cred
ALT 220	Photovoltaic Systems Technology	2	3	0	3
ELC 228	PLC Applications	2	3	0	4
ELN 131	Semiconductor Apps.	3	3	0	4
ELN 133	Digital Electronics	3	3	0	4
<b>Total =</b>					<b>15</b>
<b>Total Credit Hours =</b>					<b>73</b>

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**Programs of Study**

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**Electives: Choose 7 hours from the following courses**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ALT 120 Renewable Energy Tech	2	2	0	3
COE 111 Co-op Work Experience 1	0	0	10	1
COE 112 Co-op Work Experience 1	0	0	20	1
ELC 132 Electrical Drawings	1	3	0	2
ELC 215 Electrical Maintenance	2	3	0	3
ELC 229 Applications Project	1	3	0	2
ELC 231 Electric Power Systems	3	2	0	4
ELC 233 Energy Management	2	2	0	3
ISC 112 Industrial Safety	2	0	0	2

**Mathematics: Choose 3 hours from the following courses**

*MAT 101 Applied Math I	2	2	0	3
MAT 115 Mathematical Models	2	2	0	3
MAT 121 Algebra/Trigonometry	2	2	0	3
MAT 140 Survey of Mathematics	3	0	0	3

\*For Diploma Only

**Diploma in Electrical/Electronics Technology D35220**

**Fall Semester 1**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ELC 113 Basic Wiring	1	0	0	1
ELC 118 National Electric Code	2	2	0	3
ELC 119 NEC Calculations	2	6	0	4
ELC 125 Diagrams and Schematics	1	2	0	2
ELC 112 DC/AC Electricity or ELC 131 DC/AC Circuit Analysis	3	6	0	5
<b>Total =</b>				<b>15</b>

**Spring Semester 1**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ELC 114 Basic Wiring	2	6	0	4
ELC 117 Motors & Controls	2	6	0	4
ELC 121 Electrical Estimating	1	2	0	2
ELC 229 Applications Project	1	3	0	2
<b>Total =</b>				<b>12</b>

**Summer Semester 1**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ELC 115 Industrial Wiring	2	6	0	4
ELC 215 Electrical Maintenance	2	3	0	3
English	3	0	0	3
Math	3	0	0	3
<b>Total =</b>				<b>13</b>
<b>Total Credit Hours =</b>				<b>40</b>

**Certificate in Electrical/Electronics Technology C35220**

**Fall Semester 1**

			<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ELC 112	DC/AC Electricity		3	6	0	5
ELC 113	Basic Wiring I		2	6	0	4
ELC 118	National Electric Code		1	2	0	2
ELC 119	NEC Calculations		1	2	0	2
ELC 125	Diagnostics and Schematics		1	2	0	2

**Total = 15**

**Total Credit Hours = 15**

**Certificate in Electrical/Electronics Technology - Solar Photovoltaics C35220SP**

**Fall Semester 1**

			<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ELC 112	DC/AC Circuit Analysis		3	6	0	5
ELC 113	Basic Wiring		1	0	0	1
ELC 118	National Electric Code		2	2	0	3
ELC 119	NEC Calculations		2	6	0	4
ELC 125	Diagrams and Schematics		1	2	0	2

**Total = 15**

**Spring Semester 1**

			<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ALT 220	Photovoltaic Sys Tech		2	3	0	3

**Total = 3**

**Total Credit Hours = 18**

## Electronics Engineering Technology

The Electronics Engineering Technology curriculum prepares individuals to become technicians who design, build, install, test, troubleshoot, repair, and modify developmental and production electronics components, equipment, and systems such as industrial/computer controls, manufacturing systems, communication systems, and power electronics. A broad-based core of courses, including basic electricity, solid-state fundamentals, digital concepts, and microprocessors, ensures the student will develop the skills necessary to perform entry-level tasks. Emphasis is placed on developing the student's ability to analyze and troubleshoot electronic systems. Graduates should qualify for employment as engineering assistants or electronic technicians with job titles such as electronics engineering technician, field service technician, maintenance technician, electronic tester, electronic systems integrator, bench technician, and production control technician.

### Associate In Applied Science Degree (AAS) A40200

#### Fall Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ACA 111	College Student Success	1	0	0	1
ALT 120	Renewable Energy Technology	2	2	0	3
CIS 110	Intro to Computers	2	2	0	3
DFT 151	CADD 1	2	3	0	3
ELC 131	DC/AC Circuit Analysis	4	3	0	5
<b>Total =</b>					<b>15</b>

#### Spring Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ALT 220	Photovoltaic Systems Tech	2	3	0	3
ELC 132	Electric Drawings	1	3	0	2
ELN 131	Semiconductor Applications	3	3	0	4
ELN 133	Digital Electronics	3	3	0	4
MAT 121	Algebra/Trig 1	2	2	0	3
<b>Total =</b>					<b>16</b>

#### Summer Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ENG 111	Expository Writing	3	0	0	3
COM 231	Public Speaking	3	0	0	3
or COM 120	Interpersonal Communications Humanities/Fine Arts	3	0	0	3
<b>Total =</b>					<b>9</b>

#### Fall Semester 2

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ATR 211	Robot Programming	<b>2</b>	<b>3</b>	<b>0</b>	<b>3</b>
ELC 128	Intro to PLCs	2	3	0	3
ELN 231	Industrial Controls	2	3	0	3
HYD 110	Hydraulics/Pneumatics 1 Elective	2	3	0	3 2
<b>Total =</b>					<b>14</b>

#### Spring Semester 2

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
EGR 285	Design Project	<b>0</b>	<b>4</b>	<b>0</b>	<b>2</b>
ELC 228	PLC Applications	2	3	0	4
ISC 112	Industrial Safety Social & Behavioral Sciences	2	0	0	2 3
<b>Total =</b>					<b>11</b>
<b>Total Credit Hours =</b>					<b>65</b>

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**Programs of Study**

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**Electives: Choose 2 hours from the following courses**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
COE 111	Co-op Work Experience 1	0	0	10	1
COE 112	Co-op Work Experience 1	0	0	20	1
DFT 152	CADD II	2	3	0	3
DFT 154	Intro to Solid Modeling	2	3	0	3
ISC 220	Lean Manufacturing	1	4	0	3
MEC 231	Computer Aided Manufacturing	1	4	0	3

**Certificate in Engineering Design C40200ED**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
CIS 110	Intro to Computers	2	2	0	3
DFT 151	CADD 1	2	3	0	3

**Total = 6**

**Spring Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
DFT 152	CADD II	2	3	0	3
DFT 154	Intro to Solid Modeling	2	3	0	3

**Total = 6**

**Total Credit Hours = 12**

**Certificate in Electronics Engineering Technology - Solar Photovoltaics C40200SP**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ALT 120	Renewable Energy Technology	2	2	0	3
ELC 128	Intro to PLCs	2	3	0	3
ELC 131	DC/AC Circuit Analysis	4	3	0	5
MAT 121	Algebra/Trig 1	2	2	0	3

**Total = 14**

**Total Credit Hours = 14**

# Entrepreneurship

The Entrepreneurship curriculum is designed to provide students with the knowledge and the skills necessary for employment and growth as self-employed business owners.

Course work includes developing a student's ability to make informed decisions as future business owners. Courses include entrepreneurial concepts learned in innovation and creativity, business funding, and marketing. Additional course work includes computers and economics. Through these skills, students will have a sound education base in entrepreneurship for lifelong learning. Graduates are prepared to be self-employed and open their own businesses.

## Associate in Applied Science Degree (AAS) A25490

### Fall Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ACA 111	College Student Success	1	0	0	1
ACC 120	Principles of Financial Accounting	3	2	0	4
BUS 110	Introduction to Business	3	0	0	3
CIS 110	Introduction to Computers	2	2	0	3
ETR 210	Introduction to Entrepreneurship	3	0	0	3
OST 131	Keyboarding	1	2	0	2
<b>Total =</b>					<b>16</b>

### Spring Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ACC 121	Principles of Managerial Accounting	3	2	0	4
BUS 115	Business Law I	3	0	0	3
CTS 130	Spreadsheet	2	2	0	3
ENG 111	Expository Writing	3	0	0	3
ETR 220	Innovation and Creativity	3	0	0	3
<b>Total =</b>					<b>16</b>

### Summer Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ENG 114	Professional Research and Reporting	3	0	0	3
	Humanities/Fine Arts	3	0	0	3
	Mathematics	3	0	0	3
<b>Total =</b>					<b>9</b>

### Fall Semester 2

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ACC 150	Accounting Applications Software	1	2	0	2
BUS 137	Principles of Management	3	0	0	3
ECO 251	Principles of Microeconomics	3	0	0	3
ETR 230	Entrepreneur Marketing	3	0	0	3
ETR 240	Funding for Entrepreneurs	3	0	0	3
<b>Total =</b>					<b>14</b>

### Spring Semester 2

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
BUS 125	Personal Finance	3	0	0	3
BUS 280	R.E.A.L. Small Business	4	0	0	4
COE 111	Co-Op Work Experience I or	0	0	10	1
WEB 210	Web Design or	2	2	0	3
ECO 252	Principles of Macroeconomics	3	0	0	3
ETR 270	Entrepreneurship Issues	3	0	0	3
	Social & Behavioral Science	3	0	0	3
<b>Total =</b>					<b>14-16</b>

**Total Credit Hours = 69-71**

### Mathematics: Choose 3 hours from the following courses

MAT 140	Survey of Mathematics	3	0	0	3
MAT 151	Statistics I	3	0	0	3
MAT 171	Precalculus Algebra	3	0	0	3

**Diploma in Entrepreneurship D25490**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ACC 120	Principles of Financial Accounting	3	2	0	4
BUS 110	Introduction to Business	3	0	0	3
CIS 110	Introduction to Computers	2	2	0	3
ENG 111	Expository Writing	3	0	0	3
ETR 210	Introduction to Entrepreneurship	3	0	0	3
ETR 230	Entrepreneur Marketing	3	0	0	3

**Total = 19**

**Spring Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ACC 121	Principles of Managerial Accounting	3	2	0	4
BUS 115	Business Law I	3	0	0	3
BUS 280	R.E.A.L. Small Business	4	0	0	4
CTS 130	Spreadsheet	2	2	0	3
ENG 114	Professional Research and Reporting	3	0	0	3
ETR 220	Innovation and Creativity	3	0	0	3

**Total = 20**

**Total Credit Hours = 39**

**Certificate in Entrepreneurship C25490**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ACC 120	Principles of Financial Accounting	3	2	0	4
BUS 110	Introduction to Business	3	0	0	3
CIS 110	Introduction to Computers	2	2	0	3
ETR 210	Introduction to Entrepreneurship	3	0	0	3
ETR 230	Entrepreneur Marketing	3	0	0	3

**Total = 16**

**Total Credit Hours = 16**

## Esthetics Instructor

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.

Graduation requires the listed courses, HCC Cosmetic Art Competencies, NC State Board of Cosmetic Arts requirements, and 650 hours and have a 2.0 GPA or higher before making application to take the teaching licensing exam.

### Certificate in Esthetics Instructor C55270

#### Fall Semester 1

COS 253 Esthetic Instructor Concepts I

Lec	Lab	Clin	Cred
6	15	0	11

**Total = 11**

#### Spring Semester 1

COS 254 Esthetic Instructor Concepts II

Lec	Lab	Clin	Cred
6	15	0	11

**Total = 11**

**Total Credit Hours = 22**

## Esthetics Technology

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. Graduation requires the listed courses, HCC Cosmetic Art Competencies, NC state Board of Cosmetic Arts requirements, and 600 hours and have a 2.0 GPA or higher before making application to take the licensing exam.

### Certificate in Esthetics C55230

#### Fall Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
COS 119	Esthetics Concepts I	2	0	0	2
COS 120	Esthetics Salon I	0	18	0	6
<b>Total =</b>					<b>8</b>

#### Spring Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
COS 125	Esthetics Concepts II	2	0	0	2
COS 126	Esthetics Salon II	0	18	0	6
<b>Total =</b>					<b>8</b>
<b>Total Credit Hours =</b>					<b>16</b>

## Fish and Wildlife Management Technology

The Fish and Wildlife Management Technology curriculum is designed to prepare students for entry into the field of developing, conserving, and managing fish and wildlife resources.

Students will gain an understanding of the principles and develop competence in the production, utilization, and conservation of fish and wildlife resources. Students will also learn to communicate and deal effectively with the public.

Graduates should qualify as fish and wildlife management technicians with state and federal agencies and private enterprises involved in natural resource management.

### Associate In Applied Science Degree (AAS) A15160

#### Fall Semester 1

		Lec	Lab	Clin	Cred
ACA 111	College Student Success	1	0	0	1
BIO 111	General Biology I	3	3	0	4
ENG 111	Expository Writing	3	0	0	3
FOR 121	Dendrology	2	6	0	4
FWL 142	Wildlife Management	2	3	0	3
<b>Total =</b>					<b>15</b>

#### Spring Semester 1

		Lec	Lab	Clin	Cred
ENG 113	Literature-Based Research	3	0	0	3
or ENG 114	Prof Research & Reporting				
FOR 131	Forest Measurements	2	3	0	3
FWL 126	Wildlife Ornithology	2	3	0	3
FWL 222	Wildlife Mammalogy	2	3	0	3
MAT 140	Survey of Mathematics	3	0	0	3
	Social & Behavioral Science	3	0	0	3
<b>Total =</b>					<b>18</b>

#### Summer Semester 1

		Lec	Lab	Clin	Cred
FOR 215	Introduction to GIS/GPS	1	4	0	3
FWL 232	Terrestrial Ecology	2	3	0	3
FWL 234	Aquatic Ecology	2	3	0	3
<b>Total =</b>					<b>9</b>

#### Fall Semester 2

		Lec	Lab	Clin	Cred
FOR 173	Soils & Hydrology	2	3	0	3
FOR 223	Silviculture	2	3	0	3
FOR 241	Forest Fire Management	2	3	0	3
FWL 124	Wildlife Botany	2	3	0	3
FWL 224	Ichthyology	1	2	0	2
	Humanities/Fine Arts	3	0	0	3
<b>Total =</b>					<b>17</b>

#### Spring Semester 2

		Lec	Lab	Clin	Cred
FOR 212	Forest Surv & Aerial Interp	2	3	0	3
FWL 212	Wildlife Policy and Law	2	0	0	2
FWL 242	Fishery Management	2	3	0	3
FWL 252	Wildlife Maint Techniques	2	3	0	3
FWL 254	Habitat Manipulation	2	3	0	3
<b>Total =</b>					<b>14</b>
<b>Total Credit Hours =</b>					<b>73</b>

## Forest Management Technology

The Forest Management Technology curriculum is designed to help students acquire technical knowledge, understanding, and abilities essential in developing, conserving, and utilizing forest resources.

Students develop knowledge and skills in the principles and practices of forest resource management. Students will spend much of their time in field training situations where emphasis is placed on the practical application of this knowledge and skill.

Graduates should be qualified for entry into positions as forest technicians with federal, state, and private forestry enterprises. Graduates will have competence in forest protection, forest management, and forest procurement and in performing various technical tasks related to forestry.

### Associate in Applied Science Degree (AAS) A15200

#### Fall Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ACA 111	College Student Success	1	0	0	1
BIO 111	General Biology I	3	3	0	4
ENG 111	Expository Writing	3	0	0	3
FOR 121	Dendrology	2	6	0	4
FOR 171	Introduction to Forest Resources	3	0	0	3
MAT 140	Survey of Mathematics	3	0	0	3
<b>Total=</b>					<b>18</b>

#### Spring Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
BIO 120	Introduction to Botany	3	3	0	4
ENG 113	Literature-Based Research	3	0	0	3
or ENG 114	Prof Research & Reporting				
FOR 131	Forest Measurements	2	3	0	3
MAT 120	Geometry & Trigonometry	2	2	0	3
	Humanities/Fine Arts	3	0	0	3
<b>Total =</b>					<b>16</b>

#### Summer Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
FOR 215	Introduction to GIS/GPS	1	4	0	3
or GIS 111	Introduction to GIS				
FOR 232	Forest Mensuration	2	6	0	4
FOR 282	Forest Recreation	2	3	0	3
<b>Total =</b>					<b>10</b>

#### Fall Semester 2

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
FOR 173	Soils & Hydrology	2	3	0	3
FOR 175	Wildlife Environmental Studies	2	3	0	3
or FWL 142	Wildlife Management				
FOR 225	Silvics & Silviculture	3	3	0	4
FOR 240	Forest Protection	2	3	0	3
FOR 241	Forest Fire Management	2	3	0	3
<b>Total =</b>					<b>16</b>

#### Spring Semester 2

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
FOR 212	Forest Survey and Aerial Inter	2	3	0	3
FOR 271	Forest Management	2	3	0	3
FOR 285	Logging & Marketing	2	3	0	3
	Social and Behavioral Sciences	3	0	0	3
<b>Total =</b>					<b>12</b>
<b>Total Credit Hours =</b>					<b>72</b>

## Forest Management Technology Certificate C15200NR

The Natural Resources Specialist certificate will expose students to foundation courses in Forestry Management Technology, Fish & Wildlife Management Technology, and Geospatial Technology. Students will also be able to select from other courses in the department of Natural Resources Management. These courses will be offered in online and seated formats.

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
FOR 171	Introduction to Forest Resources	3	0	0	3
FOR 121	Dendrology	2	6	0	4
FWL 142	Wildlife Management	2	3	0	3
GIS 111	Introduction to GIS	2	2	0	3
FOR 173	Soils & Hydrology	2	3	0	3
or FOR 282	Forest Recreation				
				<b>Total =</b>	<b>16</b>
				<b>Total Credit Hours =</b>	<b>16</b>

## Healthcare Business Informatics

The Healthcare Business Informatics curriculum prepares individuals for employment as specialists in installation, data management, data archiving/retrieval, system design and support, and computer training for medical information systems.

Students learn about the field through multidisciplinary coursework including the study of terminology relating to informatics, systems analysis, networking technology, computer/network security, data warehousing, archiving and retrieval of information, and healthcare computer infrastructure support.

Graduates should qualify for employment as database/data warehouse analysts, technical support professionals, informatics technology professionals, systems analysts, networking and security technicians, and computer maintenance professionals in the healthcare field.

### Associate In Applied Science Degree (AAS) A25510

#### Fall Semester 1

		Lec	Lab	Clin	Cred
ACA 111	College Student Success	1	0	0	1
CIS 110	Introduction to Computers	2	2	0	3
ENG 111	Expository Writing	3	0	0	3
MED 121	Medical Terminology I	3	0	0	3
NET 125	Networking Basics	1	4	0	3
NOS 110	Operating Systems Concepts	2	3	0	3
<b>Total =</b>					<b>16</b>

#### Spring Semester 1

		Lec	Lab	Clin	Cred
CTS 120	Hardware/Software Support	2	3	0	3
DBA 110	Database Concepts	2	3	0	3
HBI 110	Issues and Trends in HBI	3	0	0	3
MED 122	Medical Terminology II	3	0	0	3
NOS 130	Windows Single User	2	2	0	3
<b>Total =</b>					<b>15</b>

#### Summer Semester 1

		Lec	Lab	Clin	Cred
ENG 114	Professional Research & Reporting	3	0	0	3
	Humanities/Fine Arts	3	0	0	3
	Mathematics	3	0	0	3
	Social & Behavioral Sciences	3	0	0	3
<b>Total =</b>					<b>12</b>

#### Fall Semester 2

		Lec	Lab	Clin	Cred
HBI 113	Survey of Medical Insurance	3	0	0	3
HBI 250	Data Management and Utilization	3	0	0	3
NOS 230	Windows Administration I	2	2	0	3
OST 181	Introduction to Office Systems	2	2	0	3
SEC 110	Security Concepts	3	0	0	3
<b>Total =</b>					<b>15</b>

#### Spring Semester 2

		Lec	Lab	Clin	Cred
BUS 110	Introduction to Business	3	0	0	3
CIS 115	Introduction to Programming and Logic	2	3	0	3
OST 137	Office Software Applications	2	2	0	3
HBI 289	HBI Project	1	4	0	3
OST 149	Medical Legal Issues	3	0	0	3
<b>Total =</b>					<b>15</b>
<b>Total Credit Hours =</b>					<b>73</b>

#### Mathematics: Choose 3 hours from the following courses

MAT 140	Survey of Mathematics	3	0	0	3
MAT 151	Statistics I	3	0	0	3
MAT 171	Precalculus Algebra	3	0	0	3

**Certificate in Healthcare Business Informatics for Health Professionals C25510HP**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
CIS 110	Introduction to Computers	2	2	0	3
HBI 113	Survey of Medical Insurance	3	0	0	3
MED 121	Medical Terminology I	3	0	0	3
<b>Total =</b>					<b>6</b>

**Spring Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
HBI 110	Issues and Trends in HBI	3	0	0	3
MED 122	Medical Terminology II	3	0	0	3
OST 149	Medical Legal Issues	3	0	0	3
<b>Total =</b>					<b>9</b>
<b>Total Credit Hours =</b>					<b>15</b>

**Certificate in Healthcare Business Informatics for Computer Technology Professionals C25510CT**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
CIS 110	Introduction to Computers	2	2	0	3
NET 125	Networking Basics	1	4	0	3
SEC 110	Security Concepts	3	0	0	3
<b>Total =</b>					<b>9</b>

**Spring Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
CTS 120	Hardware/Software Support	2	3	0	3
DBA 110	Database Concepts	2	3	0	3
HBI 110	Issues and Trends in HBI	3	0	0	3
<b>Total =</b>					<b>9</b>
<b>Total Credit Hours =</b>					<b>18</b>

## Horticulture Technology

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

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

Graduates should qualify for employment opportunities in nurseries, garden centers, greenhouses, landscape operations, gardens, and governmental agencies. Graduates should also be prepared to take the North Carolina Pesticide Applicator's Examination and the North Carolina Certified Plant Professional Examination.

### Diploma in Horticulture Technology D15240

#### Fall Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ENG 111	Expository Writing	3	0	0	3
HOR 160	Plant Materials I	2	2	0	3
HOR 162	Applied Plant Science	2	2	0	3
HOR 166	Soils & Fertilizers	2	2	0	3
HOR 168	Plant Propagation	2	2	0	3
	Social & Behavioral Sciences	3	0	0	3

**Total = 18**

#### Spring Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
AGR 265	Organic Crop Production	2	2	0	3
BUS 280	REAL Small Business	4	0	0	4
CIS 110	Introduction to Computers	2	2	0	3
HOR 116	Landscape Management I	2	2	0	3
HOR 164	Hort Pest Management	2	2	0	3
HOR 260	Plant Materials II	2	2	0	3

**Total = 19**

**Total Credit Hours = 37**

**Certificate in Horticulture Technology C15240**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
HOR 160	Plant Materials I	2	2	0	3
HOR 162	Applied Plant Science	2	2	0	3
HOR 166	Soils & Fertilizers	2	2	0	3
HOR 168	Plant Propagation	2	2	0	3

**Total = 12**  
**Total Credit Hours = 12**

**Certificate in Advanced Horticulture Technology C15240AHT**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
AGR 265	Organic Crop Production	2	2	0	3
HOR 116	Landscape Management I	2	2	0	3
HOR 164	Horticulture Pest Management	2	2	0	3
HOR 260	Plant Materials II	2	2	0	3

**Total = 12**  
**Total Credit Hours = 12**

## Industrial Systems Technology

The Industrial Systems Technology curriculum is designed to prepare or upgrade individuals to safely service, maintain, repair, or install equipment. Instruction includes theory and skill training needed for inspecting, testing, troubleshooting, and diagnosing industrial systems. Students will learn multi-craft technical skills in blueprint reading, mechanical systems maintenance, electricity, hydraulics/pneumatics, welding, machining or fabrication, and includes various diagnostic and repair procedures. Practical application in these industrial systems will be emphasized and additional advanced course work may be offered.

Upon completion of this curriculum, graduates should be able to individually, or with a team, safely install, inspect, diagnose, repair, and maintain industrial process and support equipment. Students will also be encouraged to develop their skills as life-long learners.

### Associate in Applied Science Degree (AAS) A50240

#### Fall Semester 1

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ACA 111 College Student Success	1	0	0	1
BPR 111 Blueprint Reading	1	2	0	2
MAC 111 Machining Technology I	2	12	0	6
MAC 114 Intro to Metrology	2	0	0	2
MAC 121 Intro to CNC	2	0	0	2
MAC 151 Machining Calculations	1	2	0	2
MEC 142 Physical Metallurgy	1	2	0	2
		<b>Total=</b>		<b>17</b>

#### Spring Semester 1

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ELC 132 Electrical Drawing	1	3	0	2
HYD 110 Hydraulics/Pneumatics	2	3	0	3
ISC 112 Industrial Safety	2	0	0	2
MNT 110 Intro to Maintenance Procedures	1	3	0	2
ENG 111 Expository Writing	3	0	0	3
Social & Behavioral Science	3	0	0	3
		<b>Total =</b>		<b>15</b>

#### Summer Semester 1

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
CIS 110 Introduction to Computers	2	2	0	3
COM 120 Interpersonal Communications	3	0	0	3
or COM 231 Public Speaking				
Humanities/Fine Arts	3	0	0	3
		<b>Total =</b>		<b>9</b>

#### Fall Semester 2

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ELC 131 DC/AC Circuit Analysis	4	3	0	5
ELC 128 Intro to PLCs	2	3	0	3
ELN 231 Industrial Controls	2	3	0	3
WLD 112 Basic Welding Processes	1	3	0	3
Elective				3
		<b>Total =</b>		<b>17</b>

#### Spring Semester 2

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ELC 228 PLC Applications	2	6	0	4
MNT 240 Industrial Equipment Troubleshooting	1	3	0	2
Mathematics	3	0	0	3
Elective				3
		<b>Total =</b>		<b>12</b>

**Total Credit Hours = 70**

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**Programs of Study**

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**Mathematics: Choose 3 hours from the following courses**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
MAT 115 Mathematical Models	2	2	0	3
MAT 120 Geometry and Trigonometry	2	2	0	3
MAT 121 Algebra/Trigonometry	2	2	0	3
MAT 140 Survey of Mathematics	3	0	0	3
*MAT 101 Mathematical Models	2	2	0	3

\*Diploma Only

**Electives: Choose 6 hours from the following courses**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
COE 111 Co-op Work Experience I	0	0	10	1
COE 112 Co-op Work Experience I	0	0	20	2
ALT 120 Renewable Energy Systems	2	2	0	3
ALT 220 Photovoltaic Sys Technology	2	3	0	3
AHR 120 HVACR Maintenance	1	3	0	3
ATR 211 Robot Programming	2	3	0	3
DFT 151 CAD I	2	3	0	3
MNT 230 Pumps & Piping	1	3	0	2
WLD 115 SMAW (Stick) Plate	2	9	0	5
WLD 131 GTAW (Tig) Plate	2	6	0	4

**Diploma in Industrial Systems Technology (D50240)**

**Fall Semester 1**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
BPR 111 Blueprint Reading	1	2	0	2
ELC 131 DC/AC Circuit Analysis	4	3	0	5
MAC 111 Machining Technology I	2	12	0	6
MAC 114 Intro to Metrology	2	0	0	2
MAC 121 Intro to CNC	2	0	0	2

**Total = 17**

**Spring Semester 1**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ELN 231 Industrial Controls	2	3	0	3
HYD 110 Hydraulics/Pneumatics	2	3	0	3
MNT 110 Intro to Maintenance Procedures	1	3	0	2
MNT 240 Industrial Equipment Troubleshooting	1	3	0	2
WLD 112 Basic Welding Processes	1	3	0	3

**Total = 13**

**Summer Semester 1**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
English	3	0	0	3
Mathematics	3	0	0	3

**Total = 6**

**Total Credit Hours = 36**

**Certificate in Industrial Systems Technology (C50240)**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
BPR 111	Blueprint Reading	1	2	0	2
ELC 131	DC/AC Circuit Analysis	4	3	0	5
MAC 121	Intro to CNC	2	0	0	2
<b>Total =</b>					<b>9</b>

**Spring Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
HYD 110	Hydraulics/Pneumatics	2	3	0	3
ISC 112	Industrial Safety	2	0	0	2
MNT 110	Intro to Maintenance Procedures	1	3	0	2
<b>Total =</b>					<b>7</b>
<b>Total Credit Hours =</b>					<b>16</b>

**Certificate in Industrial Systems Technology Corporate (C50240CM)**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
BPR 111	Blueprint Reading	1	2	0	2
ELC 112	DC/AC Electricity	3	6	0	5
MAC 151	Machining Calculations	1	2	0	2
<b>Total =</b>					<b>9</b>

**Spring Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
HYD 110	Hydraulics/Pneumatics	2	3	0	3
ISC 112	Industrial Safety	2	0	0	2
MNT 110	Intro to Maintenance Procedures	1	3	0	2
<b>Total =</b>					<b>7</b>
<b>Total Credit Hours =</b>					<b>16</b>

## Infant Toddler Certificate

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

Course work includes childhood growth and development; physical/nutritional needs of children; care and guidance of children; and communication skills with families 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 child care programs, preschools, public and private schools, recreational centers, Head Start Programs, and school-age programs.

### Certificate - C55290

#### Fall Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
EDU 119	Early Childhood Education	4	0	0	4
EDU 144	Child Development I	3	0	0	3
<b>Total =</b>					<b>7</b>

#### Spring Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
EDU 131	Child, Family and Community	3	0	0	3
EDU 153	Health, Safety and Nutrition	3	0	0	3
EDU 234	Infants, Toddlers and Twos	3	0	0	3
<b>Total =</b>					<b>9</b>
<b>Total Credit Hours =</b>					<b>16</b>

## Low Impact Development

The Low Impact Development Curriculum (LID) is designed to prepare students interested in sustainable development and natural resource management with the technical skills to serve as specialists in the analysis of land and in the preparation of LID recommendations.

Graduates will be prepared for a growing number of careers in the public and private sector that require an understanding of geospatial technology, drafting, and the principles and practices of LID. The POS requires a multidisciplinary core of coursework including the study of land planning software programs, soils, site analysis, hydrology, geospatial technology, and environmental regulations. Students wishing to pursue the LID POS should have an interest in the outdoors, technology, planning, natural resource conservation, and in working with the public and professionals from many fields.

Students successfully completing the LID POS will be able to develop and utilize plans for site development, storm and gray water treatment, and landscape restoration projects. Graduates will be able to successfully serve as liaisons between landscape architects and engineers and the construction companies implementing designs. Graduates will also be well versed in local and regional permitting issues and environmental concerns present and future.

### Associate in Applied Science Degree (AAS) A40290

<b>Fall Semester 1</b>		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ACA 111	College Student Success	1	0	0	1
COM 120	Intro to Interpersonal Computers	3	0	0	3
DFT 151	CAD 1	2	3	0	3
ENG 111	Expository Writing	3	0	0	3
ENV 110	Environmental Science	3	0	0	3
HOR 160	Plant Materials I	2	2	0	3
				<b>Total=</b>	<b>16</b>
<b>Spring Semester 1</b>		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
BIO 140	Environmental Biology	3	0	0	3
BIO 140A	Environmental Biology Lab	0	3	0	1
DFT 152	CAD 2	2	3	0	3
HOR 260	Plant Materials 2	2	2	0	3
LAR 120	Sustainable Development	2	2	0	3
GIS 111	Introduction to GIS	2	2	0	3
				<b>Total =</b>	<b>16</b>
<b>Summer Semsester 1</b>		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
GIS 112	Introduction to GPS	2	2	0	3
FOR 173	Soils and Hydrology	2	3	0	3
MAT 120	Geometry and Trigonometry	2	2	0	3
				<b>Total =</b>	<b>9</b>
<b>Fall Semester 2</b>		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
CST 231	Soils and Site Work	3	2	0	4
GIS 121	Georeferencing and Mapping	2	2	0	3
HOR 112	Landscape Design I	2	3	0	3
LID 111	Design Principles of LID	2	3	0	3
LID 112	Practical Applications of LID	2	3	0	3
				<b>Total =</b>	<b>16</b>
<b>Spring Semester 2</b>		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
GIS 245	Introduction to Spatial Analysis	2	2	0	3
LID 230	Remediation of Impacted Sites	3	0	0	3
LID 240	Design for Sustainable Development	1	4	0	3
	Humanities/Fine Arts I	3	0	0	3
	Social & Behavioral Sciences	3	0	0	3
				<b>Total =</b>	<b>15</b>
				<b>Total Credit Hours =</b>	<b>72</b>

**Certificate in Low Impact Development - LID Specialist C40290**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
LAR 120	Sustainable Development	2	2	0	3
LID 111	Design Principles of LID	2	3	0	3
LID 112	Practical Applications of LID	1	4	0	3
LID 230	Remediation of Impacted Sites	3	0	0	3
LID 240	Sustainable Development Design	1	4	0	3

**Total = 15**  
**Total Credit Hours = 15**

**Certificate in Low Impact Development -GIS Specialist C40290GIS**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
GIS 111	Introduction to GIS	2	2	0	3
GIS 112	Introduction to GPS	2	2	0	3
GIS 121	Georeferencing and Mapping	2	2	0	3
GIS 245	Introduction to Spatial Analysis	2	2	0	3

**Total = 12**  
**Total Credit Hours = 12**

**Certificate in Low Impact Development -Design C40290DES**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
LID 111	Design Principles of LID	2	3	0	3
HOR 112	Landscape Design I	2	3	0	3
HOR 160	Plant Materials I	2	3	0	3
HOR 260	Plant Materials II	2	2	0	3

**Total = 12**  
**Total Credit Hours = 12**

## Manicuring/Nail Instructor

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

Graduation requires the listed courses, HCC Cosmetic Art Competencies, NC State Board of Cosmetic Arts requirements, and 320 hours and have a 2.0 GPA or higher before making application to take the teaching licensing exam.

New students are accepted in the Fall and Spring semesters.

### Certificate in Manicuring/Nail Instructor C55380

#### Fall Semester 1

COS 251 Manicure Instructor Concepts  
COS 252 Manicure Instructor Practicum

<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
8	0	0	8
0	15	0	5
<b>Total =</b>			<b>13</b>
<b>Total Credit Hours =</b>			<b>13</b>

## Manicuring/Nail Technology

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

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

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

Graduation requires the listed courses, HCC Cosmetic Art Competencies, NC State Board of Cosmetic Arts requirements, and 300 hours and have a 2.0 GPA or higher before making application to take the licensing exam.

New students are accepted in the Fall and Spring semesters.

### Certificate in Manicuring/Nail Technology C55400

#### Fall Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
COS 121	Manicuring Nail Technology I	4	6	0	6
COS 222	Manicuring Nail Technology II	4	6	0	6
<b>Total =</b>					<b>12</b>
<b>Total Credit Hours =</b>					<b>12</b>

## Medical Assisting

The Medical Assisting curriculum prepares multi-skilled health care professionals qualified to perform administrative, clinical, and laboratory procedures.

Course work includes instruction in scheduling appointments, coding and processing insurance accounts, billing, collections, computer operations; assisting with examinations/treatments, performing routine laboratory procedures, electrocardiography, supervised medication administration; and ethical/legal issues associated with patient care.

Graduates of CAAHEP-accredited medical assisting programs may be eligible to sit for the American Association of Medical Assistants' Certification Examination to become Certified Medical Assistants. Employment opportunities include physicians' offices, health maintenance organizations, health departments, and hospitals.

The Haywood Community College Medical Assisting Program is accredited by the Commission on Accreditation of Allied Health Education Programs ([www.caahep.org](http://www.caahep.org)), upon the recommendation of the Medical Assisting Education Review Board (MAERB).

Commission on Accreditation of Allied Health Education Programs

35 E. Wacker Dr., Suite 1970

Chicago, IL 60601-2208

312/553-9355

### Admissions Criteria

The criteria for admission to the medical assisting program include :

1. A completed Application for Admission form;
2. Evidence of high school graduation or completion of GED certificate;
3. Official copies of high school and college transcripts (High school seniors must have a final transcript sent within one month of graduation;
4. Satisfactory scores on the college placement test or satisfactory remediation of areas not meeting cutoff scores;
5. A completed medical form including all required immunizations prior to enrolling in MED 150 and MED 260;
6. An annual TB skin test and
7. Malpractice insurance prior to taking MED 150 and MED 260.

### Associate In Applied Science Degree (AAS) A45400

#### Fall Semester 1

		Lec	Lab	Clin	Cred
ACA 111	College Student Success	1	0	0	1
CIS 110	Introduction to Computers	2	2	0	3
ENG 111	Expository Writing	3	0	0	3
MED 110	Orientation to Medical Assisting	1	0	0	1
MED 121	Medical Terminology I	3	0	0	3
MED 114	Professional Interactions in Healthcare	1	0	0	1
<b>Total =</b>					<b>12</b>

#### Spring Semester 1

		Lec	Lab	Clin	Cred
ENG 114	Professional Research & Reporting	3	0	0	3
MAT 115	Mathematical Models	2	2	0	3
or MAT 140	Survey of Mathematics	3	0	0	3
MED 116	Introduction to Anatomy and Physiology	3	2	0	4
MED 122	Medical Terminology II	3	0	0	3
MED 130	Administrative Office Procedures I	1	2	0	2
OST 136	Word Processing	2	2	0	3
<b>Total =</b>					<b>18</b>

#### Summer Semester 1

		Lec	Lab	Clin	Cred
MED 118	Medical Law and Ethics	2	0	0	2
or OST 149	Medical Legal Issues	3	0	0	3
MED 140	Exam Room Procedures I	3	4	0	5
	Humanities/Fine Arts	3	0	0	3

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**Programs of Study**

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**Fall Semester 2**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
MED 131	Administrative Office Procedures II	1	2	0	2
MED 150	Laboratory Procedures I	3	4	0	5
MED 240	Exam Room Procedures II	3	4	0	5
MED 272	Drug Therapy	3	0	0	3
OST 148	Medical Coding, Billing & Insurance	3	0	0	3

**Total = 18**

**Spring Semester 2**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
MED 260	Clinical Externship	0	0	15	5
MED 264	Medical Assisting Overview	2	0	0	2
MED 274	Diet Through Nutrition	3	0	0	3
MED 276	Patient Education	2	0	0	2
PSY 150	General Psychology	3	0	0	3

**Total = 15**

**Total Credit Hours = 73**

## Medical Office Administration

This curriculum prepares individuals for employment in medical and other health-care related offices.

Course work will include medical terminology; information systems; office management; medical coding, billing and insurance; legal and ethical issues; and formatting and word processing. Students will learn administrative and support functions and develop skills applicable in medical environments.

Employment opportunities are available in medical and dental offices, hospitals, insurance companies, laboratories, medical supply companies, and other health-care related organizations.

### Associate In Applied Science Degree (AAS) A25310

#### Fall Semester 1

		Lec	Lab	Clin	Cred
ACA 111	College Student Success	1	0	0	1
MED 116	Introduction to Anatomy and Physiology	3	2	0	4
MED 121	Medical Terminology I	3	0	0	3
OST 131	Keyboarding	1	2	0	2
OST 181	Introduction to Office Systems	2	2	0	3

**Total = 13**

#### Spring Semester 1

		Lec	Lab	Clin	Cred
ACC 120	Principles of Financial Accounting	3	2	0	4
CIS 110	Introduction to Computers	2	2	0	3
ENG 111	Expository Writing	3	0	0	3
MED 122	Medical Terminology II	3	0	0	3
OST 136	Word Processing	2	2	0	3

**Total = 16**

#### Summer Semester 1

		Lec	Lab	Clin	Cred
ENG 114	Professional Research & Reporting	3	0	0	3
	Humanities/Fine Arts	3	0	0	3
	Mathematics	3	0	0	3
	Social & Behavioral Sciences	3	0	0	3

**Total = 12**

#### Fall Semester 2

		Lec	Lab	Clin	Cred
BUS 153	Human Resource Management	3	0	0	3
OST 134	Text Entry and Formatting	2	2	0	3
OST 148	Medical Coding, Billing, & Insurance	3	0	0	3
OST 164	Text Editing Applications	3	0	0	3
OST 247	Procedure Coding	1	2	0	2
OST 248	Diagnostic Coding	1	2	0	2

**Total = 16**

#### Spring Semester 2

		Lec	Lab	Clin	Cred
BUS 280	REAL Small Business	4	0	0	4
COE 111	Co-op Work Experience I	0	0	10	1
OST 137	Office Software Applications	2	2	0	3
OST 149	Medical Legal Issues	3	0	0	3
OST 243	Medical Office Simulation	2	2	0	3

**Total = 14**

**Total Credit Hours = 71**

**Diploma in Electronic Health Records D25310**

**Fall Semester 1**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ENG 111 Expository Writing	3	0	0	3
MED 116 Introduction to Anatomy & Physiology	3	2	0	4
MED 121 Medical Terminology I	3	0	0	3
OST 131 Keyboarding	1	2	0	2
OST 148 Medical Coding, Billing, & Insurance	3	0	0	3

**Total = 15**

**Spring Semester 1**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
CIS 110 Introduction to Computers	2	2	0	3
ENG 114 Professional Research & Reportin	3	0	0	3
MED 122 Medical Terminology II	3	0	0	3
OST 136 Word Processing	2	2	0	3
OST 149 Medical Legal Issues	3	0	0	3

**Total = 15**

**Fall Semester 2**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
OST 134 Text Entry and Formatting	2	2	0	3
OST 181 Introduction to Office Systems	2	2	0	3
OST 243 Medical Office Simulation	2	2	0	3
OST 247 Procedure Coding	1	2	0	2
OST 248 Diagnostic Coding	1	2	0	2

**Total = 13**

**Total Credit Hours = 43**

**Certificate in Medical Office Administration C25310**

**Fall Semester 1**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
CIS 110 Introduction to Computers	3	0	0	3
MED 121 Medical Terminology I	3	0	0	3
OST 148 Medical Coding, Billing, & Insurance	3	0	0	3
OST 181 Introduction to Office Systems	2	2	0	3

**Total = 12**

**Total Credit Hours = 12**

## Networking Technology

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

Course work includes design, installation, configuration, and management of network infrastructure technologies and network operating systems. Emphasis is placed on the implementation and management of network software and the implementation and management of hardware such as switches and routers.

Graduates may find employment in entry-level jobs such as local area network managers, network operators, network analysts, and network technicians. Graduates may also be qualified to take certification examinations for various network industry certifications, depending on their local program.

### Associate In Applied Science Degree (AAS) A25340

		Lec	Lab	Clin	Cred
<b>Fall Semester 1</b>					
ACA 111	College Student Success	1	0	0	1
CIS 110	Introduction to Computers	2	2	0	3
ENG 111	Expository Writing	3	0	0	3
NOS 110	Operating Systems Concepts	2	3	0	3
SEC 110	Security Concepts	3	0	0	3
	Mathematics	3	0	0	3
					<b>Total = 16</b>
<b>Spring Semester 1</b>					
BUS 110	Introduction to Business	3	0	0	3
CTS 120	Hardware/Software Support	2	3	0	3
DBA 110	Database Concepts	3	0	0	3
NOS 120	Linux/UNIX Single User	2	2	0	3
NOS 130	Windows Single User	2	2	0	3
					<b>Total = 15</b>
<b>Summer Semester 1</b>					
ENG 114	Professional Research & Reporting	3	0	0	3
	Humanities/Fine Arts	3	0	0	3
	Social & Behavioral Sciences	3	0	0	3
					<b>Total = 9</b>
<b>Fall Semester 2</b>					
NET 125	Networking Basics	1	4	0	3
NET 126	Routing Basics	1	4	0	3
NOS 220	Linux/UNIX Admin I	2	2	0	3
NOS 230	Windows Administration I	2	2	0	3
SEC 160	Secure Admin I	2	2	0	3
					<b>Total = 15</b>
<b>Spring Semester 2</b>					
CIS 115	Intro to Programming and Logic	2	2	0	3
NET 225	Routing and Switching I	1	4	0	3
NET 226	Routing and Switching II	1	4	0	3
NET 289	Networking Project	2	2	0	3
					<b>Total = 12</b>
					<b>Total Credit Hours = 67</b>
<b>Mathematics: Choose 3 hours from the following courses</b>					
MAT 140	Survey of Mathematics	3	0	0	3
MAT 151	Statistics I	3	0	0	3
MAT 171	Precalculus Algebra	3	0	0	3

**Diploma in Networking Technology D25340**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
CIS 110	Introduction to Computers	2	2	0	3
ENG 111	Expository Writing	3	0	0	3
NET 125	Networking Basics	1	4	0	3
NET 126	Routing Basics	1	4	0	3
NOS 110	Operating Systems Concepts	2	3	0	3
SEC 110	Security Concepts	3	0	0	3

**Total = 18**

**Spring Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ENG 114	Professional Research & Reporting	3	0	0	3
NET 225	Routing and Switching I	1	4	0	3
NET 226	Routing and Switching II	1	4	0	3
NOS 120	Linux/UNIX Single User	2	2	0	3
NOS 130	Windows Single User	2	2	0	3
SEC 160	Secure Admin I	2	2	0	3

**Total = 18**

**Total Credit Hours = 36**

**Certificate in Networking Technology C25340**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
NET 125	Networking Basics	1	4	0	3
NOS 110	Operating Systems Concepts	2	3	0	3
SEC 110	Security Concepts	3	0	0	3

**Total = 9**

**Spring Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
NOS 120	Linux/UNIX Single User	2	2	0	3
NOS 130	Windows Single User	2	2	0	3
SEC 160	Secure Admin I	2	2	0	3

**Total = 9**

**Total Credit Hours = 18**

**Certificate in CISCO CCNA Preparation C25340**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
NET 125	Networking Basics	1	4	0	3
NET 126	Routing Basics	1	4	0	3
SEC 110	Security Concepts	3	0	0	3

**Total = 9**

**Spring Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
NET 225	Routing and Switching I	1	4	0	3
NET 226	Routing and Switching II	1	4	0	3

**Total = 6**

**Total Credit Hours = 15**

## Nursing

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 Licensure 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.

### Associate In Applied Science Degree (AAS) A45110

#### Fall Semester 1

		Lec	Lab	Clin	Cred
NUR 111	Introduction to Health Concepts	4	6	6	8
NUR 117	Pharmacology	1	3	0	2
PSY 150	General Psychology	3	0	0	3
<b>Total =</b>					<b>13</b>

#### Spring Semester 1

		Lec	Lab	Clin	Cred
NUR 112	Health - Illness Concepts	3	0	6	5
NUR 114	Holistic Health Concepts	3	0	6	5
PSY 241	Developmental Psychology	3	0	0	3
<b>Total =</b>					<b>13</b>

#### Summer Semester 1

		Lec	Lab	Clin	Cred
ENG 111	Expository Writing	3	0	0	3
NUR 113	Family Health Concepts	3	0	6	5
<b>Total =</b>					<b>8</b>

#### Fall Semester 2

		Lec	Lab	Clin	Cred
BIO 175	General Microbiology	2	2	0	3
ENG 114	Professional Research and Reporting	3	0	0	3
MAT 140	Survey of Mathematics	3	0	0	3
NUR 211	Health Care Concepts	3	0	6	5
NUR 212	Health System Concepts	3	0	6	5
<b>Total =</b>					<b>19</b>

#### Spring Semester 2

		Lec	Lab	Clin	Cred
NUR 213	Complex Health Concepts	4	3	15	10
	Humanities/Fine Arts	3	0	0	3
<b>Total =</b>					<b>13</b>
<b>Total Credit Hours =</b>					<b>66</b>

**Region A Nursing Consortium: Admission Criteria and Points Scale  
Class of Fall 2011**

**Applications will be only be accepted October 1, 2010 through January 31, 2011.**

**Minimum requirements for Phase I:**

1. Submit Official High School Transcripts or Official GED Scores
2. Satisfactory scores on the college placement test or provide documentation to waive the placement exam
3. Evidence of a cumulative GPA of 2.0 or greater on a 4 point scale in the most recent 10 semester hours attempted
4. Provide Documentation of successful completion of a NC approved Certified Nurse Aide I program which includes theory, lab, and clinical components\* (A copy of a college transcript or a notarized course completion certificate will be acceptable documentation) **\*Challenging the Nurse Aide I examination will not meet this requirement**
5. Hold a documented, current, unrestricted credential as Nurse Aide I (NAI) from the North Carolina Nurse Aide Registry <https://www.ncnar.org/index1.jsp> and the Division of Health Service Regulation. (A copy of current listing on the NC DHSR Nurse Aide Registry Website by January 31, 2011 will be acceptable documentation.)
6. Successful completion of all needed developmental courses including: RED 090, ENG 080, ENG 090, MAT 060, MAT 070, BIO 094, and CHM 090
7. Completion of BIO 168 Anatomy and Physiology I with a grade of "C" or better

**The above minimum requirements must be satisfied by January 31, 2011 to be considered for the fall nursing class. Once the application deadline has past, all qualified applicants will progress to Phase II.**

**Phase II:**

- A. Students will complete HESI Admission Assessment Exam during February and March. The HESI Admission Assessment Exam may be administered to students who have met all the requirements of phase I. Qualified students may only complete the exam once per admission cycle.
- B. Students will be awarded points based on the following scale:
  1. Score from the HESI Assessment Exam
  2. Points for grade point average:
    - 2.50 and below = 0 points
    - 2.51-2.99 = 4 points
    - 3.00-3.50 = 8 Points
    - 3.51-3.99 = 14 points
    - 4.00 = 16 points
  3. Points for other:
    - Health Occupations I or Allied Health Science I = 1 point
    - Health Occupations II or Allied Health Science II = 2 points
    - Diploma level degree = 2 points
    - Associate level degree = 4 points
    - Bachelor level degree = 5 points
    - Masters level degree or higher = 6 points

Please note that students will only receive points for the highest coursework or degree completed.

**Provisional acceptance to the nursing program will be offered to the top 38 point earners from Phase II at each campus. A student that is provisionally accepted will need to complete state health and immunization forms and complete BIO 169 Anatomy and Physiology II with a grade of "C" or better to become fully accepted into the nursing program by May 15. If all requirements for Phase II are not completed by May 15, the student's slot may be offered to an alternate student.**

## RN Completer Program

The RN completer program is designed to allow currently Licensed Practical Nurses (LPN) to become a registered nurse without repeating the entire nursing curriculum. Upon completion, student will be awarded an Associate in Applied Science Nursing Degree (A45110). Graduates are able to apply to take the National Council Licensure Examination (NCLEX-RN).

Applicants to the program will receive credit for NUR 111, NUR 112, NUR 113, NUR 114, NUR 117, and NUR 211 based on coursework completed in the LPN curriculum. Course prerequisites for the program include: RED 090, ENG 090, MAT 070, PSY 241, BIO 168 and BIO 169.

### Associate In Applied Science Degree (AAS) A45110

#### Summer Semsester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ENG 111	Expository Writing	3	0	0	3
NUR 214	Nursing Transition Concepts	3	0	3	4
<b>Total =</b>					<b>7</b>

#### Fall Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
BIO 175	General Microbiology	2	2	0	3
ENG 114	Professional Research and Reporting	3	0	0	3
MAT 140	Survey of Mathematics	3	0	0	3
NUR 221	LPN to ADN Concepts I	6	0	9	9
<b>Total =</b>					<b>18</b>

#### Spring Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
NUR 223	LPN to ADN Concepts II	6	0	9	9
	Humanities/Fine Arts	3	0	0	3
<b>Total =</b>					<b>12</b>
<b>Total Credit Hours =</b>					<b>37</b>

## Professional Crafts - Clay

The Professional Crafts: Clay curriculum is designed to prepare individuals for employment as professional potters or in pottery-related fields. Using traditional and contemporary concepts, instruction includes technical knowledge, design skills, and marketing and business essentials.

Course work includes development of basic and advanced throwing skills with emphasis on form and design. Study will include a pottery studio and marketing procedures.

Graduates will be able to open and operate their own pottery business, work for existing pottery businesses, or transfer to a four-year degree program.

### Associate In Applied Science Degree (AAS) A30300

#### Fall Semester 1

		Lec	Lab	Clin	Cred
ACA 111	College Student Success	1	0	0	1
CIS 110	Introduction to Computers	2	2	0	3
ENG 111	Expository Writing	3	0	0	3
PCC 110	Introduction to Pottery	3	15	0	8
PCC 112	History of Pottery	1	0	0	1
PCD 110	Introduction to Craft Design	1	3	0	2

**Total = 18**

#### Spring Semester 1

		Lec	Lab	Clin	Cred
COM 120	Interpersonal Communication or	3	0	0	3
COM 231	Public Speaking				
PCC 111	Functional Pottery	3	15	0	8
PCC 113	Contemporary Pottery	1	0	0	1
PCD 111	Advanced Craft Design	1	3	0	2
	Humanities/Fine Arts	3	0	0	3

**Total = 17**

#### Summer Semsester 1

		Lec	Lab	Clin	Cred
PCR 112	20th Century Crafts	2	0	0	2
	Social & Behavioral Sciences	3	0	0	3
	Elective				5

**Total = 10**

#### Fall Semester 2

		Lec	Lab	Clin	Cred
MAT115	Mathematical Models	2	2	0	3
Or MAT 140	Survey of Mathematics	3	0	0	3
PCC 117	Glaze Testing	1	3	0	2
PCC 210	Functional Pottery II	3	15	0	8
PCR 210	Studio Craft Photo	1	3	0	2
PCR 212	Craft Marketing	2	0	0	2

**Total = 17**

#### Spring Semester 2

		Lec	Lab	Clin	Cred
PCC 211	Decorative Pottery	3	15	0	8
PCD 211	Professional Craft Design	1	3	0	2
PCR 213	Craft Enterprise	2	0	0	2

**Total = 12**

**Total Credit Hours = 74**

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**Programs of Study**

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**Electives: Choose 5 hours from the following courses**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>
PCC 114	Raku	1	3	0
PCC 116	Pottery Tool Making	1	3	0
PCC 118	Clay: Special Study	0	4	0
PCC 119	Clay Design: Special Study	0	4	0
PCC 120	Clay Business: Special Study	0	4	0
PCC 130	Pottery Production	2	9	0
PCR 115	Lab I - Beginning Lab	0	2	0
PCR 116	Lab II - Intermediate Lab	0	2	0
PCR 125	Lab III - Advanced Lab	0	2	0
PCR 126	Lab IV - Advanced Design	0	2	0

**Diploma in Professional Crafts - Clay D30300**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ENG 111	Expository Writing	3	0	0	3
PCC 110	Introduction to Pottery	3	15	0	8
PCC 112	History of Pottery	1	0	0	1
PCD 110	Introduction to Craft Design	1	3	0	2

**Total = 14**

**Spring Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
PCC 111	Functional Pottery	3	15	0	8
PCC 113	Comtemporary Pottery	1	0	0	1
PCD 111	Advanced Craft Design	1	3	0	2

**Total = 11**

**Fall Semester 2**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
PCC 210	Functional Pottery II	3	15	0	8
PCR 210	Studio Craft Photo	1	3	0	2
PCR 212	Craft Marketing	2	0	0	2

**Total = 12**

**Spring Semester 2**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
PCC 211	Decorative Pottery	3	15	0	8
	Humanities/Fine Arts or Social & Behavioral Science	3	0	0	3

**Total = 11**

**Total Credit Hours = 48**

## Professional Crafts - Fiber

The Professional Crafts: Fiber curriculum is designed to train individuals as professional handweavers. Instruction includes technical weaving knowledge, dye work, design skills, and marketing and business essentials.

Students will learn warping techniques, weaving theory and technique, dye applications, and finishing methods. Students will receive design skills to aid them in personalizing their own work. Additional instruction will provide the bases for starting and running a small business.

Graduates will be able to open and operate their own weaving studio, work for an existing weaving business, or transfer to a four-year degree program.

### Associate In Applied Science Degree (AAS) A30320

#### Fall Semester 1

			<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ACA 111	College Student Success		1	0	0	1
CIS 110	Introduction to Computers		2	2	0	3
ENG 111	Expository Writing		3	0	0	3
PCD 110	Introduction to Craft Design		1	3	0	2
PCF 110	Introduction to Weaving		2	15	0	7
PCF 120	Color and Pattern Design		1	0	0	1
<b>Total =</b>						<b>17</b>

#### Spring Semester 1

			<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
COM 120	Interpersonal Communication or		3	0	0	3
COM 231	Public Speaking					
PCD 111	Advanced Craft Design		1	3	0	2
PCF 111	Intermediate Weaving		2	15	0	7
PCF 121	History of Textiles		1	0	0	1
PCF 122	Fiber Dyeing		2	3	0	3
<b>Total =</b>						<b>16</b>

#### Summer Semsester 1

			<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
PCF 112	Weaving for Clothing		2	6	0	4
PCR 112	20th Centry Crafts		2	0	0	2
	Humanities/Fine Arts		3	0	0	3
	Elective					2
<b>Total =</b>						<b>11</b>

#### Fall Semester 2

			<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
MAT 115	Mathematical Models		2	2	0	3
Or MAT 140	Survey of Mathematics		3	0	0	3
PCF 210	20th Century Textile		1	0	0	1
PCF 211	Production Weaving		2	15	0	7
PCR 210	Studio Craft Photo		1	3	0	2
PCR 212	Craft Marketing		2	0	0	2
<b>Total =</b>						<b>15</b>

#### Spring Semester 2

			<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
PCD 211	Professional Craft Design		1	3	0	2
PCF 212	Professional Weaving		2	15	0	7
PCR 213	Craft Enterprise		2	0	0	2
	Social & Behavioral Sciences		3	0	0	3
<b>Total =</b>						<b>14</b>
<b>Total Credit Hours =</b>						<b>73</b>

**Electives: Choose 2 hours from the following courses**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
PCF 131	Shibori	1	2	0	1
PCF 132	Vegetable Dyeing	1	2	0	2
PCF 133	Off-Loom Techniques	1	2	0	2
PCF 230	Fiber: Special Study	0	4	0	2
PCF 231	Fiber Business: Special Study	0	4	0	2
PCF 232	Fiber Design: Special Study	0	4	0	2
PCR 115	Lab I - Beginning Lab	0	2	0	1
PCR 116	Lab II - Intermediate Lab	0	2	0	1
PCR 125	Lab III - Advanced Lab	0	2	0	1
PCR 126	Lab IV - Advanced Design	0	2	0	1

**Diploma in Professional Crafts - Fiber D30320**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ENG 111	Expository Writing	3	0	0	3
PCD 110	Introduction to Craft Design	1	3	0	2
PCF 110	Introduction to Weaving	2	15	0	7
PCF 120	Color and Pattern Design	1	0	0	1

**Total = 13**

**Spring Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
PCD 111	Advanced Craft Design	1	3	0	2
PCF 111	Intermediate Weaving	2	15	0	7
PCF 121	History of Textiles	1	0	0	1

**Total = 10**

**Summer Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
PCF 112	Weaving for Clothing	2	6	0	4

**Total = 4**

**Fall Semester 2**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
PCF 211	Production Weaving	2	15	0	7
PCR 210	Studio Craft Photo	1	3	0	2
PCR 212	Craft Marketing	2	0	0	2

**Total = 11**

**Spring Semester 2**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
PCF 212	Professional Weaving	2	15	0	7
	Humanities/Fine Arts or Social & Behavioral Science	3	0	0	3

**Total = 10**

**Total Credit Hours = 48**

## Professional Crafts - Jewelry

The Professional Crafts: Jewelry curriculum prepares individuals to become professional metalsmiths. Instruction includes jewelry techniques, design, and marketing.

Students will learn metal forming techniques, metal decorative techniques, and basic information to start and operate a small business. The course work will also include jewelry design, studio safety, and tool and machine orientation.

Graduates will be able to start and operate their own jewelry studio, work for an established jeweler, or transfer to a four-year degree program.

### Associate In Applied Science Degree (AAS) A30340

#### Fall Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ACA 111	College Student Success	1	0	0	1
CIS 110	Introduction to Computers	2	2	0	3
ENG 111	Expository Writing	3	0	0	3
PCD 110	Introduction to Craft Design	1	3	0	2
PCJ 111	Introduction to Jewelry	2	15	0	7
PCJ 121	Jewelry Design I	2	0	0	2
<b>Total =</b>					<b>18</b>

#### Spring Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
COM 120	Interpersonal Communication	3	0	0	3
or COM 231	Public Speaking				
PCD 111	Advance Craft Design	1	3	0	2
PCJ 112	Jewelry Forming Techniques	2	15	0	7
PCJ 122	Jewelry Design II	2	0	0	2
<b>Total =</b>					<b>14</b>

#### Summer Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
PCJ 113	Jewelry Decorative Techniques	3	9	0	6
PCJ 123	Jewelry Design III	2	0	0	2
PCR 112	20th Century Crafts	2	0	0	2
	Humanities/Fine Arts	3	0	0	3
	Elective				2
<b>Total =</b>					<b>15</b>

#### Fall Semester 2

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
MAT 115	Mathematical Models	<b>2</b>	<b>2</b>	<b>0</b>	<b>3</b>
Or MAT 140	Survey of Mathematics	3	0	0	3
PCJ 214	Jewelry Production Techniques	2	15	0	7
PCR 210	Studio Craft Photo	1	3	0	2
PCR 212	Craft Marketing	2	0	0	2
<b>Total =</b>					<b>14</b>

#### Spring Semester 2

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
PCD 211	Professional Craft Design	1	3	0	2
PCJ 215	Advanced Jewelry	2	15	0	7
PCR 213	Craft Enterprise	2	0	0	2
	Social & Behavioral Sciences	3	0	0	3
<b>Total =</b>					<b>14</b>
<b>Total Credit Hours =</b>					<b>75</b>

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**Programs of Study**

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**Electives: Choose 2 hours from the following courses**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
PCJ 241	Jewelry: Special Study	0	4	0	2
PCJ 261	Enameling	1	3	0	2
PCJ 262	Hand Wrought	1	3	0	2
PCJ 263	Advanced Wrought Metal	1	3	0	2
PCJ 264	Basic Knife Making	1	3	0	2
PCJ 265	Knife Making	1	3	0	2
PCJ 267	Hand Wrought Joinery	1	3	0	2
PCR 115	Lab I - Beginning Lab	0	2	0	1
PCR 116	Lab II - Intermediate Lab	0	2	0	1
PCR 125	Lab III - Advanced Lab	0	2	0	1
PCR 126	Lab IV - Advanced Design	0	2	0	1

**Diploma in Professional Crafts - Jewelry D30340**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ENG 111	Expository Writing	3	0	0	3
PCD 110	Introduction to Craft Design	1	3	0	2
PCJ 111	Introduction to Jewelry	2	15	0	7

**Total = 12**

**Spring Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
PCD 111	Advanced Craft Design	1	3	0	2
PCJ 112	Jewelry Forming Techniques	3	9	0	6

**Total = 8**

**Summer Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
PCJ 113	Jewelry Decorative Techniques	3	9	0	6
	Humanities/Fine Arts or Social & Behavioral Sciences	3	0	0	3

**Total = 9**

**Fall Semester 2**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
PCJ 214	Jewelry Decorative Techniques	3	9	0	6
PCR 210	Studio Craft Photo	3	0	0	3
PCR 212	Craft Marketing	2	0	0	2

**Total = 11**

**Spring Semester 2**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
PCJ 215	Advanced Jewelry	2	15	0	7

**Total = 7**

**Total Credit Hours = 47**

## Professional Crafts - Wood

The Professional Crafts: Wood curriculum provides individuals with traditional values of fine craftsmanship, creative design, and an entrepreneurial spirit for a small woodworking enterprise.

The course work includes a strong emphasis on creative thinking and problem solving. Study involves a mix of theoretical and hands-on training combined with a blend of historical and modern methods of woodworking and small business management.

Upon completion of required course work, graduates may earn a degree or a diploma. They should be prepared for self-employment, for positions in the craft industry, or for continued study toward a bachelor's degree at a four-year institution.

### Associate In Applied Science Degree (AAS) A30360

#### Fall Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ACA 111	College Student Success	1	0	0	1
CIS 110	Introduction to Computers	2	2	0	3
ENG 111	Expository Writing	3	0	0	3
PCD 110	Introduction to Craft Design	1	3	0	2
PCW 110	Introduction to Woodworking	3	15	0	8
PCW 120	Drafting for Woodworking	1	2	0	2
<b>Total =</b>					<b>19</b>

#### Spring Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
COM 120	Interpersonal Communication	3	0	0	3
or COM 231	Public Speaking				
PCD 111	Advance Craft Design	1	3	0	2
PCW 111	Framing Joinery/Design	3	15	0	8
PCW 121	Rendering for Woodworking	1	2	0	2
PCW 122	Furniture Design History	2	0	0	2
<b>Total =</b>					<b>17</b>

#### Summer Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
PCR 112	20th Century Crafts	2	0	0	2
PCW 112	Production Design	2	6	0	4
	Humanities/Fine Arts	3	0	0	3
<b>Total =</b>					<b>9</b>

#### Fall Semester 2

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
MAT115	Mathematical Models	2	2	0	3
Or MAT 140	Survey of Mathematics	3	0	0	3
PCR 210	Studio Craft Photo	1	3	0	2
PCR 212	Craft Marketing	2	0	0	2
PCW 210	Chair Design and Construction	2	15	0	7
PCW 212	Wood Studio Planning	1	0	0	1
	Elective				2
<b>Total =</b>					<b>17</b>

#### Spring Semester 2

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
PCD 211	Professional Craft Design	1	3	0	2
PCR 213	Craft Enterprise	2	0	0	2
PCW 211	Casework Design and Construction	2	15	0	7
	Social & Behavioral Sciences	3	0	0	3
<b>Total =</b>					<b>14</b>
<b>Total Credit Hours =</b>					<b>76</b>

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**Programs of Study**

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**Electives: Choose 2 hours form the following courses**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
PCR 115 Lab I - Beginning Lab	0	2	0	1
PCR 116 Lab II - Intermediate Lab	0	2	0	1
PCR 125 Lab III - Advanced Lab	0	2	0	1
PCR 126 Lab IV - Advanced Design	0	2	0	1
PCW 130 Veneer, Marquetry and Inlay	1	3	0	2
PCW 131 Woodbending	1	3	0	2
PCW 136 Wood Finishing	1	3	0	2
PCW 230 Wood Design: Special Study	0	4	0	2
PCW 231 Wood Business: Special Study	0	4	0	2
PCW 232 Woodworking: Special Study	0	4	0	2

A maximum of 9 semester hours of credit may be selected from the PCR prefix.

**Diploma in Professional Craft - Wood D30360**

**Fall Semester 1**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ENG 111 Expository Writing	3	0	0	3
PCD 110 Introduction to Craft Design	1	3	0	2
PCW 110 Introduction to Woodworking	2	15	0	8

**Total = 13**

**Spring Semester 1**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
PCD 111 Advanced Craft Design	1	3	0	2
PCW 111 Framing Joinery/Design	3	15	0	8
PCW 122 Furniture Design History	2	0	0	2

**Total = 12**

**Summer Semsester 1**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
PCW 112 Production Design	2	6	0	4
Humanities/Fine Arts or Social & Behavioral Sciences	3	0	0	3

**Total = 7**

**Fall Semester 2**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
PCR 212 Craft Marketing	2	0	0	2
PCW 210 Chair Design and Construction	2	15	0	7

**Total = 9**

**Spring Semester 2**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
PCW 211 Casework Design and Construction	2	15	0	7

**Total = 7**

**Total Credit Hours = 48**

## School - Age Education

This curriculum prepares individuals to work with children in elementary through middle grades in diverse learning environments. Students will combine learned theories with practice in actual settings with school-age children under the supervision of qualified teachers. Course work includes child growth/development; computer technology in education; physical/nutritional needs of school-age children; care and guidance of school-age children; and communication skills with families and children.

Students will foster the cognitive/language, physical/motor, social/emotional, and creative development of school-age populations. Graduates are prepared to plan and implement developmentally appropriate programs in school-aged environments.

Employment opportunities include school-age teachers in child care programs, before/after-school programs, paraprofessional positions in public/private schools, recreational centers, and other programs that work with school-age populations.

### Associate In Applied Science Degree (AAS) A55440

#### Fall Semester 1

	Lec	Lab	Clin	Cred
ACA 111 College Student Success	1	0	0	1
CIS 110 Introuduction to Computers	2	2	0	3
EDU 119 Early Childhood Education	4	0	0	4
EDU 131 Child Family and Community	3	0	0	3
EDU 144 Child Development I	3	0	0	3
ENG 111 Expository Writing	3	0	0	3
			<b>Total =</b>	<b>17</b>

#### Spring Semester 1

	Lec	Lab	Clin	Cred
EDU 145 Child Development II	3	0	0	3
EDU 151 Creative Activities	3	0	0	3
EDU 153 Health, Safety and Nutrition	3	0	0	3
EDU 163 Child Guidance	3	0	0	3
ENG 113 Literature Based Research	3	0	0	3
or ENG 114 Professional Research & Reporting				
or COM 120 Interpersonal Communication				
or COM 231 Public Speaking				
			<b>Total =</b>	<b>15</b>

#### Summer Semester 1

	Lec	Lab	Clin	Cred
EDU 280 Language and Literacy Experiences	3	0	0	3
Social & Behavioral Science	3	0	0	3
			<b>Total =</b>	<b>6</b>

#### Fall Semester 2

	Lec	Lab	Clin	Cred
EDU 118 Principles & pract of Inst Asst	3	0	0	3
EDU 216 Foundations of Education	4	0	0	4
EDU 221 Children With Exceptionalities	3	0	0	3
EDU 271 Educational Technology	2	2	0	3
Natural Science and Mathematics				3 - 4
			<b>Total =</b>	<b>16 - 17</b>

#### Spring Semester 2

	Lec	Lab	Clin	Cred
EDU 235 School Age Development & Program	3	0	0	3
EDU 254 Music and Movement	2	0	0	2
EDU 285 Internship EXP-SCHOOL-AGE	1	9	0	4
EDU 289 Advanced Issues School Age	2	0	0	2
Humanities/Fine Arts	3	0	0	3
			<b>Total =</b>	<b>14</b>

**Total Credit Hours = 68 - 69**

**Natural Science/Mathematics: Choose 1 course from the following**

BIO 111	General Biology I	3	3	0	4
CHM 151	General Chemistry I	3	3	0	4
MAT 140	Mathematical Models	3	0	0	3
MAT 151	Statistics I	3	0	0	3
MAT 171	Precalculus Algebra	3	0	0	3
MAT 172	Precalculus Trigonometry	3	0	0	3
MAT 271	Calculus I	3	2	0	4
MAT 272	Calculus II	3	2	0	4

## Therapeutic Massage

The Therapeutic Massage curriculum prepares graduates to work in direct client care settings to provide manipulation, methodical pressure, friction and kneading of the body for maintaining wellness or treating alterations in wellness throughout the lifespan.

Courses will include content in normal human anatomy and physiology, therapeutic massage, ethical/legal issues, business practices, nutrition and psychology.

Employment opportunities in North Carolina may be found in hospitals, rehabilitation centers, health departments, home health, medical offices, nursing homes, spas, health and sports clubs, and private practice. Graduates may be eligible to take the Massage and Bodywork Licensing Exam or the National Certification for Therapeutic Massage and Bodywork.

Graduation requires the listed courses, HCC Massage and Body Work Therapy Competencies, NC State Board of Massage and Body Work Therapy requirements and a minimum of 600 hours, and have a 2.0 GPA or higher before making application to take the licensing exam.

### Diploma in Therapeutic Massage Technology D45750

#### Fall Semester 1

		Lec	Lab	Clin	Cred	
MTH 110	Fundamentals of Massage	6	9	3	10	
PSY 150	General Psychology	3	0	0	3	
PED 110	Fit and Well for Life	1	2	0	2	
PED 122	Yoga I					1
					<b>Total =</b>	<b>14-15</b>

#### Spring Semester 1

		Lec	Lab	Clin	Cred	
BIO 163	Basic Anatomy & Physiology	4	2	0	5	
MTH 120	Therapeutic Massage Applications	6	9	3	10	
ENG 111	Expository Writing	3	0	0	3	
					<b>Total =</b>	<b>18</b>

#### Summer Semester 1

		Lec	Lab	Clin	Cred	
MTH 121	Clinical Supplement I	0	0	3	1	
MTH 125	Ethics of Massage	2	0	0	2	
NUT 110	Nutrition	3	0	0	3	
					<b>Total =</b>	<b>6</b>

**Total Credit Hours = 38-39**

## Welding Technology

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

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

Successful graduates of the Welding Technology curriculum may be employed as entry-level technicians in welding and metalworking industries. Career opportunities also exist in construction, manufacturing, fabrication, sales, quality control, supervision, and welding-related self-employment.

### Associate in Applied Science Degree (AAS) A50420

#### Fall Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
ACA 111	College Student Success	1	0	0	1
DFT 151	CAD I	2	3	0	3
WLD 110	Cutting Processes	1	3	0	2
WLD 112	Basic Welding Processes	1	3	0	2
WLD 115	SMAW (Stick) Plate	2	9	0	5
WLD 141	Symbols & Specifications	2	2	0	3

**Total = 16**

#### Spring Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
WLD 116	SMAW (Stick) Plate/Pipe	1	9	0	4
WLD 121	GMAW (MIG) FCAW/Plate	2	6	0	4
WLD 131	GTAW (TIG) Plate	2	6	0	4
	Humanities/Fine Arts				3

**Total = 15**

#### Summer Semester 1

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
CIS 110	Intro to Computers	3	0	0	3
ENG 111	Expository Writing	3	0	0	3
	Mathematics				3

**Total = 9**

#### Fall Semester 2

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
COM 120 or COM 231	Interpersonal Communications Public Speaking	3	0	0	3
MEC 231	Comp- Aided Manufact I	1	4	0	3
SOC. SCI	Social & Behavioral Sciences				3
WLD 132	GTAW (TIG) Plate/Pipe	1	6	0	3
WLD 143	Welding Metallurgy	1	2	0	2

**Total = 14**

#### Spring Semester 2

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
MEC 111	Machine Processes I	1	4	0	3
WLD 151	Fabrication I	2	6	0	4
WLD 261	Certification Practices	1	3	0	2
	Elective	2	2	0	3

**Total = 9**

**Total Credit Hours = 66**

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**Programs of Study**

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**Electives: Choose at least 3 hours from the following courses**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
BUS 280 REAL Small Business	4	0	0	4
COE 111 Co-op Work Experience I	0	0	10	1
COE 112 Co-op Work Experience II	0	0	20	2
SPA 111 Elementary Spanish I	3	0	0	3
WLD 231 GTAW (TIG) Pipe	1	6	0	3
WLD 251 Fabrication II	1	6	0	3
WLD 262 Inspection & Testing	2	2	0	3

**Mathematics: Choose 3 hours from the following courses**

*MAT 101 Applied Mathematics I	2	2	0	3
MAT 115 Mathematical Models	2	2	0	3
MAT 120 Geometry and Trigonometry	2	2	0	3
MAT 121 Algebra/Trigonometry	2	2	0	3
MAT 140 Survey of Mathematics	3	0	0	3
MAT 151 Statistics I	3	0	0	3
MAT 171 Precalculus Algebra	3	0	0	3

\*For Diploma Only

**Diploma in Welding Technology D50420**

**Fall Semester 1**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
WLD 110 Cutting Processes	1	3	0	2
WLD 112 Basic Welding Processes	1	3	0	2
WLD 115 SMAW (Stick) Plate	2	9	0	5
WLD 121 GMAW (MIG) FCAW/Plate	2	6	0	4
DFT 151 CAD I	2	3	0	3

**Total = 16**

**Spring Semester 1**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
WLD 116 SMAW (Stick) Plate/Pipe (WLD 115)	1	9	0	4
WLD 131 GTAW (TIG) Plate	2	6	0	4
WLD 141 Symbols & Specifications	2	2	0	3
English	3	0	0	3

**Total = 14**

**Summer Semester 1**

	<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
CIS 110 Introduction to Computers	1	2	0	3
Mathematics				3

**Total = 6**

**Total Credit Hours = 36**

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**Programs of Study**

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**Certificate in Welding Technology C50420**

**Fall Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
WLD 110	Cutting Processes	1	3	0	2
WLD 115	SMAW (Stick) Plate	2	9	0	5
WLD 121	GMAW (MIG) FCAW/Plate	2	6	0	4

**Total = 11**

**Spring Semester 1**

		<b>Lec</b>	<b>Lab</b>	<b>Clin</b>	<b>Cred</b>
WLD 131	GTAW (TIG) Plate	2	6	0	4
WLD 141	Symbols & Specifications	2	2	0	3

**Total = 7**

**Total Credit Hours = 18**