



# Curriculum Programs



## **Degrees, Diplomas, and Certificates**

Students interested in pursuing a curriculum program of study at NCC can choose one of the following options for program completion: the associate degree, the diploma, or the certificate.

### **Associate Degree Programs**

Associate degree programs consist of planned academic curriculum programs that prepare students to enter the workforce or to transfer to a four-year institution upon graduation. The College offers the Associate in Arts (A.A.), Associate in Engineering (AE), Associate in Science (A.S.), Associate in General Education (A.G.E.), and the Associate in Applied Science (A.A.S) degrees.

### **Diploma Programs**

Diploma Programs are curriculum programs designed to provide entry-level employment training and range from 36 to 48 semester hour credits and can usually be completed by a full-time student within two semesters and one summer semester. Associate degree level courses within a diploma program may also be applied toward the associate degrees described.

### **Certificate Programs**

Certificate programs are curriculum programs designed to provide entry-level employment training. Certificate programs range from 12 to 18 semester hour credits and can usually be completed within one semester by a full-time student.

## Programs of Study

### Degree Abbreviations

AA - Associate in Arts Degree (College Transfer); Two-Year Program	61
AE - Associate in Engineering (College Transfer); Two-Year Program	61
AS - Associate in Science Degree (College Transfer); Two-Year Program	61
AGE - Associate in General Education Degree; Two-Year Program	64-65
AAS - Associate in Applied Science Degree; Two-Year Program	65-73*
DIP - Diploma; One-Year Program;	36-48*
CERT - Certificate; Program length varies	12-18*

\*Some programs differ in length

### Credit Hours

Abbreviation Degree

## Business Technologies

### Degree Programs

A15250	Brewing, Distillation, and Fermentation	BDF	AAS
A25110	Hospitality Management	HRM	AAS
A25120	Business Administration	BA	AAS
A25620	Supply Chain Management	LOG	AAS
A25800	Accounting and Finance	ACC	AAS
A55150	Culinary Arts	CUL	AAS

### Diploma Programs

D15250	Brewing, Distillation, and Fermentation	BDF	DIP
D25110	Hospitality Management	HRM	DIP
D25120	Business Administration	BA	DIP
D25620	Supply Chain Management	LOG	DIP
D25800	Accounting and Finance	ACC	DIP
D55150	Culinary Arts – Foodservice	FST	DIP

### Certificate Programs

C15250A	Business of Brewing	CERT
C15250B	Practical Brewer	CERT
C15250C	Survey of Craft Beverages	CERT
C25110A	Lodging Management	CERT
C25110B	Restaurant Management	CERT
C25110C	Catering Management	CERT
C25110D	Bed and Breakfast Management	CERT
C25110E	Event Planning	CERT
C25120A	Business Administration	CERT
C25120B	Marketing	CERT
C25120C	Budgeting/Finance	CERT
C25620A	Supply Chain Management	CERT
C25620B	Logistics Analysis	CERT

C25620C	Distribution Management	CERT
C25800	Accounting Fundamentals	CERT
C55150A	Essential Culinary Skills	CERT
C55150B	Baking	CERT
C55150C	Advanced Catering for Entertaining	CERT

## Computer Information Technologies

### Degree Programs

A25310A	Medical Office Administration: Patient Services Specialist	MOA	AAS
A25310B	Medical Office Administration: Medical Billing and Coding	MOA	AAS
A25310C	Medical Office Administration: Medical Auditing	MOA	AAS
A25370A	Office Administration: Office Software Specialist	MOA	AAS
A25590A	Information Technology: Information Systems	CTI	AAS
A25590B	Information Technology: Networking Management	NET	AAS
A25590C	Information Technology: Systems Security	SEC	AAS
A25590D	Information Technology: Web Design and Admin	WEB	AAS
A25590E	Information Technology: Game & Sim Programming	SGD	AAS
A25590F	Information Technology: Healthcare Informatics	HBI	AAS
A30100	Advertising and Graphic Design	GRD	AAS

### Certificate Programs

C25590AA	Software Applications Certificate	CTI	CERT
C25590AB	Helpdesk Support Certificate	CTI	CERT
C25590BA	Network Technician Certificate	NET	CERT
C25590BB	Network Administrator Certificate	NET	CERT
C25590BC	Virtualization and Cloud Computing Certificate	NET	CERT
C25590CA	Cybersecurity Certificate	SEC	CERT
C25590DA	Website Design Certificate	WEB	CERT
C25590EA	Game and Simulation Programming Certificate	SGD	CERT
C25590FA	Healthcare Informatics Certificate	HBI	CERT
C25310CH	Medical Office Administration	MOA	CERT
C25310AA	Patient Services Specialist	MOA	CERT
C25310AB	Medical Document Specialist	MOA	CERT
C25310BA	Medical Billing & Coding	MOA	CERT
C25370AA	Office Document Specialist	OA	CERT
C30100A	Advertising & Graphic Design Certificate	GRD	CERT
C30100B	Advertising & Graphic Design Certificate	GRD	CERT

## Corporate and Economic Development

### Degree Programs

A35230	Electric Line Construction Technology	ELT	AAS
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**Diploma Programs**

D35230	Electric Line Construction Technology	ELT	DIP
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**Certificate Programs**

C35230A	Electric Line Construction Technology /Advanced	ELT	CERT
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C35230B	Electric Line Construction Technology/Third Class	ELT	CERT
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**Cosmetology****Degree Programs**

A55140	Cosmetology	COS	AAS
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**Diploma Programs**

D55140	Cosmetology	COS	DIP
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**Certificate Programs**

C55140A	Cosmetology	COS	CERT
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**Early Childhood Education****Degree Programs**

A55220	Early Childhood Education (ECE)	ECE	AAS
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**Diploma Programs**

D55220	Early Childhood Education	ECE	DIP
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**Certificate Programs**

C55220	ECE - Early Childhood	ECE	CERT
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C55220A	ECE - Special Education Certificate	ECE	CERT
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C55220B	ECE - Teacher Associate	TA	CERT
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C55220G	ECE - Early Childhood Administration	ECE	CERT
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C55220H	ECE - Infant Toddler Certificate	ECE	CERT
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C55220I	ECE - School-Age Certificate	ECE	CERT
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C55220K	ECE - Early Childhood	ECE	CERT
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**Industrial and Manufacturing Technologies****Degree Programs**

A35130	Electrical Systems Technology	ETD	AAS
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A40100	Architectural Technology	ARC	AAS
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A40160	Computer Engineering Technology	CET	AAS
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A40200	Electronics Engineering Technology	EET	AAS
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A50210	Computer-Integrated Machining (CIM)	MT	AAS
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A55280	General Occupational Technology	GOT	AAS
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A50240	Industrial Systems Technology	IND	AAS
A50420	Welding Technology	WLD	AAS
A60160	Automotive Systems Technology	AUT	AAS

### Diploma Programs

D35130	Electrical Systems Technology	ETD	DIP
D40100	Architectural Technology	ARC	DIP
D40160	Computer Engineering Technology	CET	DIP
D40200	Electronics Engineering Technology	EET	DIP
D50210	Computer-Integrated Machining (CIM)	MTD	DIP
D50240	Industrial Systems Technology	IND	DIP
D50420	Welding Technology	WLD	DIP
D60160	Automotive Systems Technology	AUT	DIP

### Certificate Programs

C35130A	Electrical Systems Technology – Electrical Wiring	ETD	CERT
C35130B	Electrical Systems Technology– Electrical Controls	ETD	CERT
C35130C	Electrical Systems Technology – PLC Controls	ETD	CERT
C35130D	Electrical Systems Technology – Industrial Robotics	ETD	CERT
C35130E	Electrical Systems Technology – Instrumentation Certificate	ETD	CERT
C40100A	Architectural Technology	ARC	CERT
C40160A	Computer Engineering	CET	CERT
C40160B	Computer Engineering Technology- Computer Programming	CET	CERT
C40160C	Computer Engineering Technology- PC Build and Repair Certificate	CET	CERT
C40200A	Electronics Engineering Technology - Basic Electronics	EET	CERT
C50210A	Computer-Integrated Machining – Machine Operator	MTM	CERT
C50210B	Computer-Integrated Machining – Computer Numerical Controlled	MTM	CERT
C50210C	Computer-Integrated Machining – Advanced Computer Numerical Controlled	MTC	CERT
C50210D	Computer-Integrated Machining – Robotics Machining	MTM	CERT
C50240A	Industrial Systems Technology – Heating and Refrigeration	IND	CERT
C50240B	Industrial Systems Technology - Mechanical	IND	CERT

C50240C	Industrial Systems Technology – Machining Maintenance Certificate	IND	CERT
C50420F	Welding Systems Technology – Basic Welding	WLD	CERT
C50420A	Welding Technology – GMAW (MIG)	WLD	CERT
C50420B	Welding Technology – SMAW (Stick)	WLD	CERT
C50420C	Welding Technology – GTAW (TIG)	WLD	CERT
C50420D	Welding Technology – Fabrication	WLD	CERT
C50420E	Welding Technology - General Welding Certificate	WLD	CERT
C60160A	Automotive Systems Technology – Basic Automotive Systems	AUT	CERT
C60160B	Automotive Systems Technology – Advanced Automotive Systems	AUT	CERT
C60160C	Automotive Systems Technology – Brakes and Suspension	AUT	CERT
C60160D	Automotive Systems Technology – Electrical Certificate	AUT	CERT
C60160E	Automotive Systems Technology – Engine Performance Certificate	AUT	CERT

## Health Sciences

### Degree Programs

A45110	Associate Degree Nursing	ADN	AAS
A45400	Medical Assisting	MED	AAS
A45640	Physical Therapist Assistant	PTA	AAS
A45780	Veterinary Medical Technology	VMT	AAS

### Diploma Programs

D45400	Medical Assisting	MED	DIP
D45660	Practical Nursing	PNE	DIP

### Certificate Programs

C45600	Phlebotomy	PBT	CERT
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## Humanities and Social Sciences

### Degree Programs

A10100	Associate in Arts	AA	AA
A10300	Associate in General Education	AGE	AGE
A30120	Broadcasting Production Technology	BPT	AAS
A45380	Human Services Technology	HST	AAS
A4538B	Human Services Technology/Gerontology	HG	AAS

**Certificate Programs**

C30120A	Radio Production Technology Certificate	BPT	CERT
C30120B	Video Production Technology Certificate	BPT	CERT
C30120C	Broadcasting Production Administration Certificate	BPT	CERT
C45380	Case Management Certificate	HST	CERT

**Mathematics and Sciences****Degree Programs**

A10400	Associate in Science	AS	AS
A10500	Associate in Engineering	AS	AE

**Public and Safety Services**

Department Chair: Adam Gelo, 252-451-8298

**Degree Programs**

A55180	Criminal Justice Technology	CJC	AAS
A5518A	Criminal Justice/Latent Evidence Technology	CJC	AAS
A55460	Emergency Management	EM	AAS

**Certificate Programs**

C55120	Basic Law Enforcement Training	BLET	CERT
C55180A	Criminal Justice		CERT
C55460A	Emergency Management	EM	CERT
C55460B	Emergency Management - Fire	EM	CERT

**Non Degree**

Developmental Studies	DS
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**Instructional Service Agreement Programs**

The instructional agreement programs listed below are offered at another college, i.e., host college, that awards the degree upon completion of program requirements. Typically the agreement involves the host colleges' acceptance of transfer credit for non-core and general education courses and/or acceptance for program admission to transfer students. The major core courses in instructional agreement programs are taught at the host institution. Instructional service agreement programs include:

A20100	Biotechnology	BTC	AAS
D45240	Dental Assisting	DEN	AAS
A45260	Dental Hygiene	DEN	AAS
A25200	Healthcare Management Technology	HMT	AAS
A45440	Medical Sonography		AAS
A45460	Nuclear Medicine Technology		AAS



## Nash Community College Program Offerings

Degrees	Program Title	Cip Code
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A10100	Associate in Arts	24.0101
A1030N	Associates in General Education Education Nursing	51.1105
A10300	Associate in General Education	24.0199
A10400	Associate in Science	24.0101
A10500	Associate in Engineering	14.0102
A15250	Brewing, Distillation and Fermentation	1.0401
A20100	Biotechnology (degree not awarded by NCC)	26.1201
A25110	Hospitality Management	52.0909
A25120	Business Administration	52.0201
A25200	Healthcare Mgmt. Tech. (degree not awarded by NCC)	51.0705
A25310A	Medical Office Administration - Patient Services Specialist	51.0705
A25310B	Medical Office Administration/Medical Billing Coding	51.0705
A25310C	Medical Office Administration-Medical Auditor	51.0705
A25370A	Office Administration - Office Software Specialist	52.0204
A25590A	Information Technology - Information Systems	11.0103
A25590B	Information Technology - Networking Management	11.0103
A25590C	Information Technology - Systems Security	11.0103
A25590D	Information Technology - Web Design	11.0103
A25590E	Information Technology - Game and Simulation	11.0103
A25590F	Information Technology - Healthcare Informatics	11.0103
A25620	Supply Chain Management	52.0203
A25800	Accounting and Finance	52.0304
A30100	Advertising and Graphic Design	50.0402
A30120	Broadcasting and Production Technology	10.0202
A35130	Electrical System Technology	46.0302
A35230	Electric Line Construction Technology	46.0303
A40100	Architectural Technology	15.0101
A40160	Computer Engineering Technology	15.1201
A40200	Electronics Engineering Technology	15.0303
A45110	Associate Degree Nursing	51.3801
A45260	Dental Hygiene (degree not awarded by NCC)	51.0602
A45340	Emergency Medical Science	51.0904
A45380	Human Services Technology	51.1599
A4538B	Human Services Technology Gerontology	19.0702
A45400	Medical Assisting	51.0801
A45440	Medical Sonography (Degree not awarded by NCC)	51.091
A45460	Nuclear Medicine Technology (Degree not awarded by NCC)	51.0905
A45500	Occupational Therapy Assistant (Degree not awarded by NCC)	51.0803
A45640	Physical Therapist Assistant (1+1)	51.0806
A45780	Veterinary Medical Technology	51.0808
A50210	Computer-Integrated Machining	48.0503
A50240	Industrial Systems Technology	15.0499

A50420	Welding Technology	48.0508
A55140	Cosmetology	12.0401
A55150	Culinary Arts	12.0503
A55180	Criminal Justice Technology	43.0104
A5518C	Criminal Justice Technology - Forensic Science	43.0106
A55220	Early Childhood Education	13.1210
A55240	Fire Protection Technology	43.0201
A55460	Emergency Management	43.0302
A60160	Automotive Systems Technology	47.0604

### Diplomas

D10100	Transfer Core Diploma in Arts	24.0101
D15250	Brewing, Distillation, and Fermentation	1.0401
D25110	Hospitality Management	52.0909
D25120	Business Administration	52.0201
D25620	Supply Chain Management	52.0203
D25800	Accounting and Finance	52.0304
D35130	Electrical Systems Technology	46.0302
D35230	Electric Line Construction Technology	46.0303
D40100	Architectural Technology	15.0101
D40160	Computer Engineering Technology	15.1201
D40200	Electronics Engineering Technology	15.0303
D45240	Diploma-Dental Assisting (degree not awarded by NCC)	51.0601
D45400	Medical Assisting	51.0801
D45660	Practical Nursing (	51.3901
D50210	Computer-Integrated Machining	48.0503
D50240	Industrial System Technology	15.0499
D50420	Welding Technology	48.0508
D55140	Cosmetology	12.0401
D55150	Culinary Arts - Foodservices	12.0503
D55220	Early Childhood Education	13.1210
D60160	Automotive Systems Technology	47.0604

### Certificates

C15250A	BDF/Business of Brewing Certificate	1.0401
C15250B	BDF/Practical Brewer Certificate	1.0401
C15250C	Survey of Craft Beverages Certificate	1.0401
C25110A	HM/Lodging Management Certificate	52.0909
C25110B	HM/Restaurant Management Certificate	52.0909
C25110C	HM/Catering Management Certificate	52.0909
C25110D	HM/Bed and Breakfast Management Certificate	52.0909
C25110E	HM/Event Planning Certificate	52.0909
C25120A	Business Administration Certificate	52.0201
C25120B	Marketing	52.0201

C25120C	Budgeting/Finance	52.0201
C25310AA	Patient Services Specialist	51.0705
C25310AB	Medical Document Specialist	51.0705
C25310BA	Medical Billing & Coding	51.0705
C25310CH	Medical Office Administration	51.0705
C25370AA	Office Document Specialist	11.0103
C25590AA	Software Applications Certificate	11.0103
C25590AB	Helpdesk Support Certificate	11.0103
C25590BA	Network Technician Certificate	11.0103
C25590BB	Network Administrator Certificate	11.0103
C25590BC	Virtualization and Cloud Computing Certificate	11.0103
C25590CA	Cybersecurity Certificate	11.0103
C25590DA	Website Design Certificate	11.0103
C25590EA	Game and Simulation Programming Certificate	11.0103
C25590FA	Healthcare Informatics Certificate	11.0103
C25620A	Supply Chain Management Certificate	52.0203
C25620B	Logistics Analysis	52.0203
C25620C	Distribution Management	52.0203
C25800	Accounting Fundamentals Certificate	52.0304
C30100A	Advertising & Graphic Design Certificate	50.0402
C30120A	Radio Production Technology Certificate	10.0202
C30120B	Video Production Technology Certificate	10.0202
C35130A	Electrical Systems Tech/Electrical Wiring Certificate	46.0302
C35130B	Electrical Systems Tech/Electrical Controls Certificate	46.0302
C35130C	Electrical Systems Technology/PLC Controls Certificate	46.0302
C35130D	Electrical Systems Tech/Industrial Robotics Certificate	46.0302
C35130E	Electrical Systems Technology/Instrumentation Certificate	46.0302
C35230A	Electric Line Construction Tech Certificate - Advanced	46.0303
C35230B	Electric Line Construction Certificate-Third Class	46.0303
C40100A	Architectural Technology	15.0101
C40160A	Computer Engineering Technology Certificate	15.1201
C40160B	Computer Engineering Technology/Computer Programming Certificate	15.1201
C40160C	Computer Engineering Technology-PC Build & Repair Certificate	15.1201
C40200A	Electronics Engineering Certificate/Basic Electronics	15.0303
C45380	HST/Case Management Certificate	51.1599
C45600	Phlebotomy (Certificate)	51.1009
C45840	Nurse Aide (Certificate)	51.3902
C50210A	Computer-Integrated Mach.-Machine Operator Certificate	48.0503
C50210B	Comp-Int. Mac.-Computer Numerical Controlled Certificate	48.0503
C50210C	Computer-Integrated Mach.-Advanced C N C Certificate	48.0503
C50210D	Computer-Integrated Mac.-Robotics Machining Certificate	48.0503
C50240A	Industrial Systems Heating and Refrigeration Certificate	15.0499
C50240B	Industrial Systems Mechanical Certificate	15.0499
C50240C	Industrial Systems Technology – Machining Maintenance Certificate	15.0499

C50420A	Welding Technology – GMAW (MIG)	48.0508
C50420B	Welding Technology – SMAW (Stick)	48.0508
C50420C	Welding Technology – GTAW (TIG)	48.0508
C50420D	Welding Technology – Fabrication	48.0508
C50420E	Welding Technology - General Welding Certificate	48.0508
C50420F	Welding Systems Technology – Basic Welding	48.0508
C55120	Basic Law Enforcement Training (Certificate)	43.0107
C55140A	Cosmetology Certificate	12.0401
C55150A	Essential Culinary Skills	12.0503
C55150B	Baking	12.0503
C55150C	Advanced Catering for Entertaining	12.0503
C55180A	Criminal Justice	43.0104
C55220	ECE - Early Childhood	13.1210
C55220A	ECE - Special Education Certificate	13.1210
C55220B	ECE - Teacher Associate	13.1210
C55220G	ECE - Early Childhood Administration	13.1210
C55220H	ECE - Infant Toddler Certificate	13.1210
C55220I	ECE - School-Age Certificate	13.1210
C55220J	ECE - Intentional Teacher Certificate	13.1210
C55220K	ECE - Early Childhood	13.1210
C55460A	Emergency Management - EM Essentials	43.0302
C55460B	Emergency Management-EM and Fire Basics	43.0302
C55460C	Emergency Management - Fire Management Concentration	43.0302
C55460D	Emergency Management-Business Concentration	43.0302
C60160A	Auto. Sys. Tech.- Basic Automotive Systems Certificate	47.0604
C60160B	Auto. Sys. Tech.-Advanced Automotive Systems Certificate	47.0604
C60160C	Auto. Sys. Tech.-Brakes and Suspension	47.0604
C60160D	Auto. Sys. Tech.-Electric	47.0604
C60160E	Auto. Sys. Tech-Engine Performance	47.0604

## Online Programs

<b>Degree</b>	<b>Program Title</b>	<b>Cip Code</b>
A10100OL	Associate in Arts	24.0101
A10400OL	Associate in Science	24.0101
A25120OL	Business Administration	52.0201
A25590AOL	IT: Information Systems	11.0103
A25590BOL	IT: Networking Management	11.0103
A25590COL	IT: Systems Security	11.0103
A25590DOL	IT: Web Design	11.0103
A25590EOL	IT: Game and Simulation	11.0103
A25590FOL	IT: Healthcare Informatics	11.0103
A25800OL	Accounting and Finance	52.0304

A40100OL	Architectural Technology	15.0101
A45380OL	Human Services Technology	51.1599
A55180OL	Criminal Justice Technology	43.0104
A55220OL	Early Childhood Education	13.1210
A55460OL	Emergency Management	43.0302

**Diploma**

D25800OL	Accounting and Finance	52.0304
D40100OL	Architectual Technology -Diploma	15.0101

**Certificate**

C15250AOL	BDF/Business of Brewing Certificate	1.0401
C25110AOL	HM/Lodging Management Certificate	52.0909
C25110EOL	HM/Event Planning Certificate	52.0909
C25120AOL	Business Administration Certificate	52.0201
C25310AAOL	Patient Services Specialist	51.0705
C25310ABOL	Medical Document Specialist	51.0705
C25310BAOL	Medical Billing & Coding	51.0705
C25590AAOL	Software Applications Certificate	11.0103
C25590ABOL	Helpdesk Support Certificate	11.0103
C25590BAOL	Network Technician Certificate	11.0103
C25590BBOL	Network Administrator Certificate	11.0103
C25590BCOL	Virtualization and Cloud Computing Certificate	11.0103
C25590CAOL	Cybersecurity Certificate	11.0103
C25590DAOL	Website Design Certificate	11.0103
C25590FAOL	Healthcare Informatics Certificate	11.0103
C40100AOL	Architectural Technology	15.0101
C45380OL	HST/Case Management Certificate	51.1599
C55180AOL	Criminal Justice	43.0104
C55220OL	ECE - Early Childhood	13.1210
C55220AOL	ECE - Special Education Certificate	13.1210
C55220BOL	ECE - Teacher Associate	13.1210
C55220GOL	ECE - Early Childhood Administration	13.1210
C55220HOL	ECE - Infant Toddler Certificate	13.1210
C55220IOL	ECE - School-Age Certificate	13.1210
C55220JOL	ECE - Intentional Teacher Certificate	13.1210
C55460AOL	Emergency Management - EM Essentials	43.0302
C55460BOL	Emergency Management-EM and Fire Basics	43.0302
C55460COL	Emergency Management - Fire Management Concentration	43.0302
C55460DOL	Emergency Management-Business Concentration	43.0302

**Continuing Education Programs** See the section titled *Continuing Education*.

## Accounting and Finance– A25800

The Accounting and Finance curriculum is designed to provide students with the knowledge and the skills necessary for employment and growth in the accounting and finance profession. Accountants and finance professionals assemble and analyze, process, and communicate essential information about financial operations.

Course work may include accounting, finance, ethics, business law, computer applications, financial planning, insurance, marketing, real estate, selling, and taxation. 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 and finance positions in many types of organizations including accounting firms, small businesses, manufacturing firms, banks, hospitals, schools systems, and governmental agencies.

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education Courses</b>						
COM 110	Introduction to Communication or	3	0	0	0	3
COM 231	Public Speaking	3	0	0	0	3
ENG 111	Writing and Inquiry	3	0	0	0	3
ENG 114	Professional Research & Reporting	3	0	0	0	3
HUM/FA	(HUM 115, HUM 120, PHI 215, PHI, 240, REL 110)	3	0	0	0	3
MAT 143	Quantitative Literacy	2	2	0	0	3
ECO 251	Principles of Microeconomics or	3	0	0	0	3
ECO 252	Principles of Macroeconomics	3	0	0	0	3
						<b>18</b>
<b>Technical Core Courses</b>						
ACC 120	Principles of Financial Accounting	3	2	0	0	4
ACC 121	Principles of Managerial Accounting	3	2	0	0	4
BUS 115	Business Law I	3	0	0	0	3
BUS 225	Business Finance	2	2	0	0	3
CIS 110	Introduction to Computers	2	2	0	0	3
CTS 130	Spreadsheet	2	2	0	0	3
						<b>20</b>
<b>Required Subject Area - Accounting</b>						
ACC 131	Federal Income Taxes	2	2	0	0	3
ACC 140	Payroll Accounting	1	3	0	0	2

ACC 220	Intermediate Accounting I	3	2	0	0	4
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**9****Other Major Courses**

ACC 110	Ten Key Skills	0	2	0	0	1
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ACC 150	Accounting Software App	1	3	0	0	2
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ACC 180	Practices in Bookkeeping	3	0	0	0	3
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ACC 221	Intermediate Accounting II	3	2	0	0	4
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BUS 110	Introduction to Business	3	0	0	0	3
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BUS 137	Principles of Management	3	0	0	0	3
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BUS 151	People Skills	3	0	0	0	3
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or

BUS 240	Business Ethics	3	0	0	0	3
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BUS 238	Integrated Management	3	0	0	0	3
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**22****Other Required Course**

ACA 122	College Transfer Success	0	2	0	0	1
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**1****Total Semester Hour Credits for AAS Degree 70****Accounting and Finance Diploma – D25800**

		Class	Lab	Hrs Clin	Work Exp	Credits
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**General Education Courses**

COM 110	Introduction to Communication	3	0	0	0	3
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or

COM 231	Public Speaking	3	0	0	0	3
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ENG 111	Writing and Inquiry	3	0	0	0	3
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**6****Major Core Courses**

ACC 120	Principles of Financial Accounting	3	2	0	0	4
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ACC 121	Principles of Managerial Accounting	3	2	0	0	4
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ACC 131	Federal Income Taxes	2	2	0	0	3
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BUS 115	Business Law I	3	0	0	0	3
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CIS 110	Introduction to Computers	2	2	0	0	3
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**17****Other Major Courses**

ACC 110	Ten-Key Skills	0	2	0	0	1
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ACC 140	Payroll Accounting	1	3	0	0	2
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ACC 150	Accounting Software Applications	1	3	0	0	2
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ACC 180	Practices in Bookkeeping	3	0	0	0	3
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BUS 110	Introduction to Business	3	0	0	0	3
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CTS 130	Spreadsheet	2	2	0	0	3
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**14****Total Semester Hour Credits for Diploma 37**

## Accounting Fundamentals – C25800

		Class	Lab	Hrs Clin	Work Exp	Credits
ACC 120	Principles of Financial Accounting	3	2	0	0	4
ACC 121	Principles of Managerial Accounting	3	2	0	0	4
ACC 150	Accounting Software App	1	3	0	0	2
ACC 180	Practices in Bookkeeping	3	0	0	0	3
<b>Total Semester Hour Credits for Certificate</b>						<b>13</b>

## Advertising and Graphic Design – A30100

The Advertising and Graphic Design curriculum is designed to provide students with knowledge and skills necessary for employment in the graphic design profession which emphasizes design, advertising, illustration, and digital and multimedia preparation of printed and electronic promotional materials.

Students will be trained in the development of concept and design for promotional materials such as newspaper and magazine advertisements, posters, folders, letterheads, corporate symbols, brochures, booklets, preparation of art for printing, lettering and typography, photography, and electronic media.

Graduates should qualify for employment opportunities with graphic design studios, advertising agencies, printing companies, department stores, a wide variety of manufacturing industries, newspapers, and businesses with inhouse graphics operations.

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education Courses</b>						
COM	Elective	3	0	0	0	3
ENG 111	Writing and Inquiry	3	0	0	0	3
HUM/FA	Humanities/Fine Arts Elective	3	0	0	0	3
MAT	Elective	2	2	0	0	3
SOC/BEH	Elective	3	0	0	0	3
						<b>15</b>

### Major Core Courses

GRD 110	Typography	2	2	0	0	3
GRD 121	Drawing Fundamentals I	1	3	0	0	2
GRD 131	Illustration I	1	3	0	0	2
GRD 141	Graphic Design I	2	4	0	0	4
GRD 142	Graphic Design II	2	4	0	0	4
GRD 151	Computer Design Basics	1	4	0	0	3
GRD 152	Computer Design Tech I	1	4	0	0	3
GRD 241	Graphic Design III	2	4	0	0	4
GRD 280	Portfolio Design	2	4	0	0	4
						<b>29</b>



**Other Major Courses**

CIS 110	Introduction to Computers	2	2	0	0	3
GRD 160	Photo Fundamentals I	1	4	0	0	3
GRD 242	Graphic Design IV	2	4	0	0	4
GRD 265	Digital Print Production	1	4	0	0	3
GRD 281	Design of Advertising	1	3	0	0	2
GRD 285	Client/Media Relations	1	2	0	0	2
WBL 111	Work Based Learning I	0	0	10	0	1
WEB 111	Intro. to Web Graphics	2	2	0	0	3
WEB 140	Web Development Tools	2	2	0	0	3

**24****Other Required Courses**

ACA 122	College Transfer Success	0	2	0	0	1
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**1****Total Semester Hour Credits for AAS Degree****69****Advertising and Graphic Design Certificate-C30100A**

		Hrs		Work		Credits
		Class	Lab	Clin	Exp	
GRD 110	Typography I	2	2	0	0	3
GRD 121	Drawing Fundamentals I	1	3	0	0	2
GRD 141	Graphic Design I	2	4	0	0	4
GRD 142	Graphic Design II	2	4	0	0	4
GRD 151	Computer Design Basics	1	4	0	0	3

**Total Semester Hour Credits for Certificate****16****Advertising and Graphic Design Certificate-C30100B**

		Hrs		Work		Credits
		Class	Lab	Clin	Exp	
GRD 110	Typography I	2	2	0	0	3
GRD 141	Graphic Design I	2	4	0	0	4
GRD 142	Graphic Design II	2	4	0	0	4
GRD 151	Computer Design Basics	1	4	0	0	3

**Total Semester Hour Credits for Certificate****14**

## Architectural Technology – A40100

A program that prepares individuals to assist architects, engineers, and construction professionals in developing plans and related documentation for residential and commercial projects in both the private and public sectors. Includes instruction in architectural drafting, computer-assisted drafting, construction materials and methods, environmental systems, codes and standards, structural principles, cost estimation, planning, graphics, and presentation.

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education</b>						
COM 110	Intro. to Communication or	3	0	0		3
COM 231	Public Speaking	3	0	0		3
ENG 111	Writing and Inquiry	3	0	0		3
HUM/FA	Humanities/Fine Arts Core Elective	3	0	0		3
SOC/BEH	Social/Behavioral Sci. Core Elective	3	0	0		3
MAT 121	Algebra/Trigonometry I	2	2	0		3
						<b>15</b>
<b>Technical Core Courses</b>						
ARC 112	Const. Materials & Methods		3	2	0	4
ARC 131	Building Codes		2	2	0	3
ARC 132	Specifications & Contract		2	0	0	2
SST 140	Green Building & Design Concepts		3	0	0	3
						<b>12</b>
<b>Program Major Courses</b>						
ARC 111	Intro. to Arch. Technology		1	6	0	3
ARC 114	Architectural CAD		1	3	0	2
ARC 113	Residential Arch. Tech.		1	6	0	3
ARC 213	Design Project		2	6	0	4
ARC 230	Environmental Systems		3	3	0	4
						<b>16</b>
<b>Other Major Courses</b>						
ARC 114A	Architectural CAD Lab		0	3	0	1
ARC 211	Light Constr. Technology		1	6	0	3
ARC 212	Commercial Constr. Technology		1	6	0	3
ARC 220	Advanced Architectural CAD		1	3	0	2
ARC 231	Arch. Presentations		2	4	0	4
ARC 240	Site Planning		2	2	0	3
EGR 250	Statics / Strength of Matter		4	3	0	5
MAT 122	Algebra/Trigonometry II		2	2	0	3
PHY 131	Physics-Mechanics		3	2	0	4
						<b>28</b>
<b>Other Required Courses</b>						
ACA 122	College Transfer Success		0	2	0	1

ENG 114	Prof. Research & Reporting	3	0	0	3
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**4****Total Hours for Graduation****75****Architectural Technology Diploma – D40100**

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education</b>						
ENG 111	Writing and Inquiry	3	0	0		3
MAT 121	Algebra/Trigonometry I	2	2	0		3
						<b>6</b>
<b>Technical Core Courses</b>						
ARC 112	Const. Materials & Methods	3	2	0		4
ARC 132	Specifications & Contract	2	0	0		2
ARC 131	Building Codes	2	2	0		3
SST 140	Green Building & Design Concepts	3	0	0		3
						<b>12</b>
<b>Program Major Courses</b>						
ARC 111	Intro. to Arch. Technology	1	6	0		3
ARC 114	Architectural CAD	1	3	0		2
ARC 113	Residential Arch. Tech.	1	6	0		3
						<b>8</b>
<b>Other Major Courses</b>						
ARC 230	Environmental Systems Or	3	3	0		4
ARC 231	Arch. Presentations	2	4	0		4
ARC 114A	Architectural CAD Lab	0	3	0		1
ARC 211	Light Constr. Technology	1	6	0		3
ARC 220	Advanced Architectural CAD	1	3	0		2
ARC 240	Site Planning	2	2	0		3
MAT 122	Algebra/Trigonometry II	2	2	0		3
						<b>16</b>
<b>Total Hours for Graduation</b>						<b>42</b>

**Architectural Technology Certificate – C40100**

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>Technical Core Courses</b>						
ARC 112	Const. Materials & Methods	3	2	0		4
						<b>4</b>
<b>Program Major Courses</b>						
ARC 111	Intro. to Arch. Technology	1	6	0		3
ARC 114	Architectural CAD	1	3	0		2
						<b>5</b>

**Other Major Courses**

ARC 114A	Architectural CAD Lab	0	3	0	1
ARC 220	Advanced Architectural CAD	1	3	0	2

**3****Total Hours for Graduation****12****Associate Degree Nursing (Integrated) – A45110**

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.

Only letter grades of “C” or higher in non-nursing courses and nursing (NUR) courses with a grade of “B” or higher will count toward completion of the Associate Degree Nursing degree.

The ADN program has a selective admissions process. Please refer to the College Catalog - Admissions Requirements for detailed information for ADN program options, including the Evening option and LPN to ADN transition program.

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education Courses</b>						
CHM 130	General, Organic & Biochemistry	3	0	0	0	3
CHM 130A	General, Organic & Biochemistry (Lab)	0	3	0	0	1
ENG 111	Writing and Inquiry	3	0	0	0	3
ENG 112	Writing/Research in Disciplines	3	0	0	0	3
	or					
ENG 114	Professional Research & Reporting	3	0	0	0	3
HUM 115	Critical Thinking	3	0	0	0	3
	or					
PHI 215	Philosophical Issues	3	0	0	0	3
	or					
PHI 240	Introduction to Ethics	3	0	0	0	3
PSY 150	General Psychology	3	0	0	0	3

**16**

**Major Core Courses**

NUR 111	Intro. to Health Concepts	4	6	6	0	8
NUR 112	Health-Illness Concepts	3	0	6	0	5
NUR 113	Family Health Concepts	3	0	6	0	5
NUR 114	Holistic Health Concepts	3	0	6	0	5
	or					
NUR 214	*Nursing Transition Concepts	3	0	3	0	4
NUR 211	Health Care Concepts	3	0	6	0	5
NUR 212	Health System Concepts	3	0	6	0	5
NUR 213	Complex Health Concepts	4	3	15	0	10
						<b>42-43</b>

**Other Major Courses**

BIO 168	Anatomy and Physiology I	3	3	0	0	4
BIO 169	Anatomy and Physiology II	3	3	0	0	4
MAT 171	Precalculus Algebra	3	2	0	0	4
PSY 241	Developmental Psychology	3	0	0	0	3
						<b>15</b>

**Other Required Courses**

ACA 122	College Transfer Success	0	2	0	0	1
						<b>1</b>

**Total Semester Hour Credits for AAS Degree** **74-75**

\* Note - For Transition Students

**Automotive Systems Technology – A60160**

A program that prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of automobiles. Includes instruction in brake systems, electrical systems, engine performance, engine repair, suspension and steering, automatic and manual transmissions and drive trains, and heating and air condition systems.

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education</b>						
COM 110	Intro. to Communication	3	0	0		3
	or					
COM 231	Public Speaking	3	0	0		3
ENG 110	Freshman Composition	3	0	0		3
	or					
ENG 111	Writing and Inquiry	3	0	0		3
HUM/FA	Humanities/Fine Arts Core Elective	3	0	0		3
MAT 121	Algebra/Trigonometry I	2	2	0		3
	or					
MAT 171	Precalculus Algebra	3	2	0		4

SOC/BEH	Social/Behav. Sci. Core Elective	3	0	0	3
					<b>15</b>
<b>Technical Core Courses</b>					
TRN 110	Intro to Transport Tech	1	2	0	2
TRN 120	Basic Transp Electricity	4	3	0	5
TRN 145	Adv Transp Electronics	2	3	0	3
					<b>10</b>
<b>Program Major Courses</b>					
AUT 141	Suspension and Steering Sys	2	3	0	3
AUT 151	Brake Systems	2	3	0	3
AUT 181	Engine Performance I	2	3	0	3
AUT 116	Engine Repair	2	3	0	3
					<b>12</b>
<b>Other Major Courses</b>					
AUT 141A	Suspension and Steering Lab	0	3	0	1
AUT 151A	Brakes Systems Lab	0	3	0	1
AUT 163	Adv Auto Electricity	2	3	0	3
AUT 183	Engine Performance II	2	6	0	4
AUT 212	Auto Shop Management	3	0	0	3
AUT 221	Auto Transm/Transaxles	2	3	0	3
AUT 281	Advanced Engine Performance	2	2	0	3
TRN 140	Transp Climate Control	1	2	0	2
TRN 140A	Transp Climate Cont Lab	1	2	0	2
					<b>22</b>
<b>Other Required Courses</b>					
ACA 122	College Transfer Success	0	2	0	1
CIS 110	Intro to Computers	2	2	0	3
					<b>4</b>
<b>Elective (Choose 6 hours from the list below)</b>					
AUT 113	Auto Servicing I	0	6	0	2
	or				
WBL 112	Work Based Learning I	0	0	20	2
AUT 114	Safety and Emissions	1	2	0	2
AUT 114A	Safety and Emissions Lab	0	2	0	1
AUT 213	Auto Servicing II	1	3	0	2
	or				
WBL 122	Work Based Learning II	0	0	20	2
AUT 163A	Adv Auto Electricity Lab	0	0	3	1
AUT 181A	Engine Performance I Lab	0	3	0	1
AUT 231	Manual Trans/Axles/Drtrains	2	3	0	3
TRN 120A	Basic Transp Electricity Lab	0	3	0	1
TRN 130	Intro. to Sustainable Transp	2	2	0	3
<b>Total</b>					<b>6</b>
<b>Total Semester Hour Credits for Graduation</b>					<b>69-70</b>

**Automotive Systems Technology Diploma – D60160**

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education Courses</b>						
ENG 110	Freshman Composition	3	0	0		3
	or					
ENG 111	Writing and Inquiry	3	0	0		3
MAT 110	Mathematical Measurement	2	2	0		3
	or					
MAT 121	Algebra/Trigonometry I	2	2	0		3
						<b>6</b>
<b>Technical Core Courses</b>						
TRN 110	Intro to Transport Tech	1	2	0		2
TRN 120	Basic Transp Electricity	4	3	0		5
TRN 145	Adv Transp Electronics	2	3	0		3
						<b>10</b>
<b>Program Major Courses</b>						
AUT 116	Engine Repair	2	3	0		3
AUT 141	Suspension and Steering Sys	2	3	0		3
AUT 151	Brake Systems	2	3	0		3
AUT 181	Engine Performance 1	2	3	0		3
						<b>12</b>
<b>Other Major Courses</b>						
AUT 141A	Suspension and Steering Lab	0	3	0		1
AUT 151A	Brakes Systems Lab	0	3	0		1
AUT 163	Advanced Auto Electricity	2	3	0		3
AUT 183	Engine Performance II	2	6	0		4
AUT 212	Auto Shop Management	3	0	0		3
AUT 221	Auto Transm/Transaxles	2	3	0		3
						<b>15</b>
<b>Elective (choose 4 hours from the list below)</b>						
AUT 114	Safety and Emissions	1	2	0		2
AUT 163A	Advanced Auto Electricity Lab	0	3	0		1
AUT 181A	Engine Performance I Lab	0	3	0		1
WBL 112	Work Based Learning I	0	0	20		2
TRN 120A	Basic Transp Electricity Lab	0	3	0		1
TRN 130	Intro. to Sustainable Transp	2	2	0		3
TRN 140	Transp Climate Control	1	2	0		2
TRN 140A	Transp Climate Cont Lab	1	2	0		2
						<b>4</b>
<b>Total Hours for Graduation</b>						<b>47</b>

**Basic Automotive Systems Certificate – C60160A**

			Hrs	Work		
		Class	Lab	Clin	Exp	Credits
<b>Technical Core Courses</b>						
TRN 110	Intro to Transport Tech	1	2	0		2
TRN 120	Basic Transp Electricity	4	3	0		5
						<b>7</b>
<b>Program Major Courses</b>						
AUT 141	Suspension and Steering Systems	2	3	0		3
AUT 151	Brake Systems	2	3	0		3
						<b>6</b>
<b>Other Major Courses</b>						
AUT 116	Engine Repair	2	3	0		3
AUT 141A	Suspension and Steering Lab	0	3	0		1
AUT 151A	Brake Systems Lab	0	3	0		1
						<b>5</b>
<b>Total Hours for Graduation</b>						<b>18</b>

**Advanced Automotive Systems Certificate – C60160B**

				Hrs	Work	
		Class	Lab	Clin	Exp	Credits
<b>Technical Core Courses</b>						
TRN 145	Adv Transp Electronics	2	2	0		3
						<b>3</b>
<b>Major Core Courses</b>						
AUT 181	Engine Performance I	2	3	0		3
						<b>3</b>
<b>Other Major Courses</b>						
AUT 163	Advanced Auto Electricity	2	3	0		3
AUT 183	Engine Performance II	2	6	0		4
AUT 221	Auto Trans/Transaxles	2	3	0		3
						<b>10</b>
<b>Total Hours for Graduation</b>						<b>16</b>

**Automotive Systems - Brakes and Suspension - Certificate - C60160C**

				Hrs	Work	
		Class	Lab	Clin	Exp	Credits
<b>Technical Core Courses</b>						
TRN 110	Intro to Transport Tech	1	2	0		2
						<b>2</b>
<b>Program Major Courses</b>						
AUT 141	Suspension and Steering Sys	2	3	0		3
AUT 151	Brake Systems	2	3	0		3
						<b>6</b>



**Other Major Courses**

AUT 116	Engine Repair	2	3	0	3
AUT 141A	Suspension and Steering Lab	0	3	0	1
AUT 151A	Brakes Systems Lab	0	3	0	1

**5****Total Semester Hour Credits for Certificate****13****Automotive Systems - Electrical - Certificate - C60160D**

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>Technical Core Courses</b>						
TRN 120	Basic Transp Electricity	4	3	0		5
TRN 145	Adv Transp Electronics	2	3	0		3
						<b>8</b>

**Other Major Courses**

AUT 163	Advanced Auto Electricity	2	3	0	3
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**3****Other Required Courses**

AUT 163A	Advanced Auto Electricity Lab	0	3	0	1
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**1****Total Semester Hour Credits for Certificate****12****Automotive Systems - Engine Performance - Certificate - C60160E**

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>Program Major Courses</b>						
AUT 181	Engine Performance I	2	3	0	3	
TRN 110	Intro to Transport Tech	1	2	0	2	
						<b>5</b>

**Other Major Courses**

AUT 183	Engine Performance II	2	6	0	4
AUT 116	Engine Repair	2	3	0	3

**7****Other Required Courses**

AUT 181A	Engine Performance I Lab	0	3	0	1
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**1****Total Semester Hour Credits for Certificate****13**

## Basic Law Enforcement Training Certificate – C55120

Basic Law Enforcement Training (BLET) is designed to give students essential skills required for entry-level employment as law enforcement officers with state, county or municipal governments, or with private enterprise. This program utilizes State commission-mandated topics and methods of instruction. General subjects include, but are not limited to, criminal, juvenile, civil, traffic, and alcohol beverage laws; investigative, patrol, custody, and court procedures; emergency responses; and ethics and community relations. Students must successfully complete and pass all units of study, including certification examinations mandated by the North Carolina Criminal Justice Education and Training Standards Commission and the North Carolina Sheriffs' Education and Training Standards Commission.

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>Major Core Courses</b>						
CJC 100	Basic Law Enforcement Training	9	30	0	0	19

**Total Semester Hour Credits for Certificate** **19**

## Brewing, Distillation, and Fermentation – A15250

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

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

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

***Students must be 21 years of age or older to enroll in the BDF program.***

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education Courses</b>						
COM 110	Introduction to Communication	3	0	0		3
ENG 111	Writing and Inquiry	3	0	0		3
HUM 115	Critical Thinking	3	0	0		3
MAT 143	Quantitative Literacy	2	2	0		3
PSY 150	General Psychology	3	0	0		3
						<b>15</b>

**Major Core Courses**

BDF 110	Fermentation Production	2	4	0	4
BDF 111	BDF Sanitation and Safety	1	2	0	2
BDF 115	Applied Craft Bev. Microbiology	3	2	0	4
BDF 125	Bev. Tech & Calculations	1	3	0	2
BDF 215	Legal Issues – Fermentation	3	0	0	3
ETR 210	Introduction to Entrepreneurship	3	0	0	3
HOR 245	Hor. Specialty Crops	2	2	0	3
HRM 220	Cost Controls – Food and Beverage	3	0	0	3
HRM 225	Beverage Management	3	0	0	3
ISC 112	Industrial Safety	2	0	0	2
<b>29</b>					

**Other Major Courses**

BDF 112	Survey of Fermented Products	3	3	0	4
BDF 114	Craft Beer Brewing	1	3	0	2
BDF 170	Beverage Tour and Tasting Mgmt.	2	2	0	3
BDF 180	Sensory Evaluation	2	2	0	3
BDF 220	Craft Beverage Chemistry	3	2	0	4
BDF 261	Beverage Marketing and Sales	3	0	0	3
HRM 245	Human Resources Mgmt – Hospitality	3	0	0	3
<b>22</b>					

## Other Required Courses

ACA 122	College Transfer Success	0	2	0	1
<b>1</b>					

**Total Hours for Graduation** **67**

**Brewing, Distillation, Fermentation Diploma – D15250**

		Hrs		Work		Credits
	Class	Lab	Clin	Exp		
<b>General Education Courses</b>						
ENG 111	Writing and Inquiry	3	0	0		3
MAT 143	Quantitative Literacy	2	2	0		3
						<b>6</b>

**Major Core Courses**

BDF 110	Fermentation Production	2	4	0	4	
BDF 111	BDF Sanitation and Safety	1	2	0	2	
BDF 115	Applied Craft Bev. Microbiology	3	2	0	4	
BDF 125	Bev. Tech & Calculations	1	3	0	2	
HOR 245	Hor. Specialty Crops	2	2	0	3	
ETR 210	Introduction to Entrepreneurship	3	0	0	3	
ISC 112	Industrial Safety	2	0	0	2	
						<b>20</b>

**Other Major Courses**

BDF 112	Survey of Fermented Products	3	3	0	4
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Curriculum Programs

BDF 114	Craft Beer Brewing	1	3	0	2
BDF 261	Beverage Marketing and Sales	3	0	0	3
					<b>9</b>
Other Required Courses					
ACA 122	College Transfer Success	0	2	0	1
					<b>1</b>
<b>Total Hours for Graduation</b>					<b>36</b>

**Business of Brewing - Certificate - C15250A**

BDF 215	Legal Issues – Fermentation	3	0	0	3
BDF 261	Beverage Marketing and Sales	3	0	0	3
ETR 210	Introduction to Entrepreneurship	3	0	0	3
HRM 225	Beverage Management	3	0	0	3
<b>Total Semester Hour Credits for Certificate</b>					<b>12</b>

**Practical Brewer - Certificate - C15250B**

BDF 110	Fermentation Production	2	4	0	4
BDF 111	BDF Sanitation and Safety	1	2	0	2
BDF 115	Applied Craft Bev. Microbiology	3	2	0	4
BDF 220	Craft Beverage Chemistry	3	2	0	4
<b>Total Semester Hour Credits for Certificate</b>					<b>14</b>

**Survey of Craft Beverages- Certificate - C1520C**

BDF 112	Survey of Fermented Products	3	3	0	4
BDF 114	Craft Beer Brewing	1	3	0	2
BDF 170	Beverage Tour and Tasting Mgmt.	2	2	0	3
BDF 180	Sensory Evaluation	2	2	0	3
<b>Total Semester Hour Credits for Certificate</b>					<b>12</b>

## Broadcasting Production Technology – A30120

The Broadcasting Production Technology program focuses on audio and video editing, broadcast writing, radio production and performance, video production and performance, live broadcast production, post production, and modern media delivery methods.

During the program, students learn broadcasting fundamentals through hands-on experience. Students will create and edit audio and video productions using the latest software with modern studio audio/video equipment. Students will gain experience in contemporary studio operations as well as techniques in script and broadcast writing, performance in media, broadcast/media history, methodology, sales, and ethics.

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education Courses</b>						
COM 110	Introduction to Communication	3	0	0		3
ENG 111	Writing and Inquiry	3	0	0		3
HUM/FA	Humanities/Fine Arts Elective (HUM 160, Intro to Film preferred)	2	2	0		3
MAT 143	Quantitative Literacy	2	2	0		3
PSY 150	General Psychology	3	0	0		3
						<b>15</b>
<b>Major Core Courses</b>						
BPT 110	Intro to Broadcasting	3	0	0		3
BPT 111	Broadcast Law and Ethics	3	0	0		3
BPT 112	Broadcast Writing	3	2	0		4
BPT 113	Broadcast Sales	3	0	0		3
						<b>13</b>
<b>Other Major Courses</b>						
BPT 131	Audio/Radio Production I	2	6	0		4
BPT 132	Audio/Radio Production II	2	6	0		4
BPT 135	Radio Performance I	0	6	0		2
BPT 231	Video/TV Production I	2	6	0		4
BPT 232	Video/TV Production II	2	6	0		4
BPT 235	TV Performance I	0	6	0		2
BPT 250	Institutional Video	2	3	0		3
BPT 255	Computer-Based Production	2	3	0		3
BPT 285	Broadcast Production Capstone	1	6	0		3
CIS 110	Introduction to Computers	2	2	0		3
COM 231	Public Speaking	3	0	0		3
WEB 11	Intro to Web Graphics	2	2	0		3
						<b>38</b>

## Other Required Courses

ACA 122	College Transfer Success	0	2	0	1
					<b>1</b>
<b>Total Semester Hours for AAS Degree</b>					<b>67</b>

**Radio Production Technology Certificate - C30120A**

BPT 110	Intro to Broadcasting	3	0	0	3
BPT 131	Audio/Radio Production I	2	6	0	4
BPT 132	Audio/Radio Production II	2	6	0	4
BPT 135	Radio Performance I	0	6	0	2
<b>Total Semester Hour Credits for Certificate</b>					<b>13</b>

**Video Production Technology Certificate - C30120B**

BPT 110	Intro to Broadcasting	3	0	0	3
BPT 231	Video/TV Production I	2	6	0	4
BPT 232	Video/TV Production II	2	6	0	4
BPT 235	TV Performance I	0	6	0	2
<b>Total Semester Hour Credits for Certificate</b>					<b>13</b>

**Broadcasting Production Administration Certificate - C30120C**

BPT 110	Intro to Broadcasting	3	0	0	3
BPT 111	Broadcast Law & Ethics	3	0	0	3
BPT 112	Broadcast Writing	3	2	0	4
BPT 113	Broadcast Sales	3	0	0	3
<b>Total Semester Hour Credits for Certificate</b>					<b>13</b>

**Business Administration – A25120**

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.

		Hrs		Work		Credits
		Class	Lab	Clin	Exp	
<b>General Education Courses</b>						
COM 110	Introduction to Communication	3	0	0	0	3

	or						
COM 231	Public Speaking	3	0	0	0	3	
ECO 252	Principles of Macroeconomics	3	0	0	0	3	
ENG 111	Writing and Inquiry	3	0	0	0	3	
ENG 114	Professional Research & Reporting	3	0	0	0	3	
HUM/FA		3	0	0	0	3	
	(HUM 115, HUM 120, PHI 215, PHI, 240, REL 110)						
MAT 143	Quantitative Literacy	2	2	0	0	3	
							<b>18</b>

**Technical Core Courses**

ACC 120	Principles of Financial Accounting	3	2	0	0	4	
BUS 110	Introduction to Business	3	0	0	0	3	
BUS 115	Business Law I	3	0	0	0	3	
BUS 137	Principles of Management	3	0	0	0	3	
CIS 110	Introduction to Computers	2	2	0	0	3	
ECO 251	Principles of Microeconomics	3	0	0	0	3	
MKT 120	Principles of Marketing	3	0	0	0	3	
							<b>22</b>

**Required Subject Area Courses**

BUS 151	People Skills	3	0	0	0	3	
BUS 225	Business Finance	2	2	0	0	3	
BUS 238	Integrated Management	3	0	0	0	3	
BUS 240	Business Ethics	3	0	0	0	3	
							<b>12</b>

**Other Major Courses**

ACC 121	Principles of Managerial Accounting	3	2	0	0	4	
CTS 130	Spreadsheet	2	2	0	0	3	
INT 110	International Business	3	0	0	0	3	
MKT 123	Fundamentals of Selling	3	0	0	0	3	
							<b>13</b>

**Major Elective (Pick One)**

(ACC 140, ACC 180, ETR 210, LOG 110, SPA 120)							<b>2-3</b>
							<b>15-16</b>

**Other Required Courses**

ACA 122	College Transfer Success	0	2	0	0	1	
							<b>1</b>

**Total Semester Hour Credits for AAS Degree** **68-69**

**Business Administration Diploma – D25120**

				Hrs	Work	
		Class	Lab	Clin	Exp	Credits
<b>General Education Courses</b>						
COM 110	Introduction to Communication	3	0	0	0	3

	or					
COM 231	Public Speaking	3	0	0	0	3
ECO 252	Principles of Macroeconomics	3	0	0	0	3

**6****Technical Core Courses**

ACC 120	Principles of Financial Accounting	3	2	0	0	4
BUS 110	Introduction to Business	3	0	0	0	3
BUS 115	Business Law I	3	0	0	0	3
BUS 137	Principles of Management	3	0	0	0	3
CIS 110	Introduction to Computers	2	2	0	0	3
ECO 251	Principles of Microeconomics	3	0	0	0	3
MKT 120	Principles of Marketing	3	0	0	0	3

**22****Other Major Courses**

BUS 151	People Skills	3	0	0	0	3
BUS 240	Business Ethics	3	0	0	0	3
INT 110	International Business	3	0	0	0	3

**9****Total Semester Hour Credits for Certificate****37****Business Administration Certificate – C25120A**

BUS 110	Introduction to Business	3	0	0	0	3
BUS 137	Principles of Management	3	0	0	0	3
BUS 151	People Skills	3	0	0	0	3
BUS 240	Business Ethics	3	0	0	0	3

**Total Semester Hour Credits for Certificate****12****Marketing Certificate - C25120B**

BUS 110	Introduction to Business	3	0	0	0	3
BUS 240	Business Ethics	3	0	0	0	3
MKT 120	Principles of Marketing	3	0	0	0	3
MKT 123	Fundamentals of Selling	3	0	0	0	3

**Total Semester Hour Credits for Certificate****12****Budgeting/Finance Certificate - C25120C**

ACC 120	Principles of Financial Accounting	3	2	0	0	4
ACC 121	Principles of Managerial Accounting	3	2	0	0	4
BUS 225	Business Finance	2	2	0	0	3
ECO 251	Principles of Microeconomics	3	0	0	0	3

or

ECO 252	Principles of Macroeconomics	3	0	0	0	3
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**Total Semester Hour Credits for Certificate****14**



## Computer Engineering Technology – A40160

A course of study that prepares the students to use basic engineering principles and technical skills for installing, servicing, and maintaining computers, peripherals, networks, and microprocessor and computer controlled equipment. Includes instruction in mathematics, computer electronics and programming, prototype development and testing, systems installation and testing, solid state and microminiature circuitry, peripheral equipment, and report preparation. Graduates should qualify for employment opportunities in electronics technology, computer service, computer networks, server maintenance, programming, and other areas requiring knowledge of electronic and computer systems. Graduates may also qualify for certification in electronics, computers, or networks.

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education</b>						
COM 110	Intro. to Communication or	3	0	0		3
COM 231	Public Speaking	3	0	0		3
ENG 111	Writing and Inquiry	3	0	0		3
MAT121	Algebra/Trigonometry I	2	2	0		3
HUM/FA	Elective	3	0	0		3
SOC/BEH	Elective	3	0	0		3
						<b>15</b>
<b>Technical Core Courses</b>						
ELC 131	Circuit Analysis I	3	3	0		4
ELN 131	Analog Electronics I	3	3	0		4
ELN 133	Digital Electronics	3	3	0		4
						<b>12</b>
<b>Program Major Courses</b>						
CET 111	Computer Upgrade/Repair I	2	3	0		3
CET 211	Computer Upgrade/Repair II	2	3	0		3
CSC 151	Java Programming	2	3	0		3
ELC 235	Data Communication Sys.	3	3	0		4
						<b>13</b>
<b>Other Major Courses</b>						
CET 222	Computer Architecture	2	0	0		2
CET 251	Software Eng. Principles	3	3	0		4
CET 293	Selected Topic Seminar	2	3	0		3
CSC 143	Object-Oriented Prog.	2	3	0		3
CSC 251	Adv. Java Programming	2	3	0		3
EGR 125	Appl Software for Tech	1	2	0		2
ELC 131A	Circuit Analysis I Lab	0	3	0		1
ELN 232	Intro. to Microprocessors	3	3	0		4
ELN 237	Local Area Networks	2	3	0		3
ELN 238	Advanced LANs	2	3	0		3
MAT 122	Algebra/Trigonometry II	2	2	0		3

	or					
MAT 172	Precalculus Trigonometry	3	0	0		3
CET 245	Internet Servers	2	3	0		3
						<b>34</b>
<b>Other Required Courses</b>						
ACA 122	College Transfer Success	0	2	0		1
						<b>1</b>
<b>Total Hours for Graduation</b>						<b>75</b>

## Computer Engineering Technology Diploma – D40160

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education</b>						
ENG 111	Writing and Inquiry	3	0	0		3
MAT 121	Algebra/Trigonometry I	2	2	0		3
						<b>6</b>
<b>Technical Core Courses</b>						
ELC 131	Circuit Analysis I	3	3	0		4
ELN 131	Analog Electronics I	3	3	0		4
ELN 133	Digital Electronics	3	3	0		4
						<b>12</b>
<b>Program Major Courses</b>						
CET 111	Computer Upgrade/Repair I	2	3	0		3
CET 211	Computer Upgrade/Repair II	2	3	0		3
CSC 151	Java Programming	2	3	0		3
ELN 235	Data Communication Sys.	3	3	0		4
Total						<b>13</b>
<b>Other Major Courses</b>						
EGR 125	Appl Software for Tech	1	2	0		2
ELC 131A	Circuit Analysis I Lab	0	3	0		1
ELN 232	Intro. to Microprocessors	3	3	0		4
ELN 237	Local Area Networks	2	3	0		3
Total						<b>10</b>
<b>Total Hours for Graduation</b>						<b>41</b>

## Computer Engineering Technology - Networking Certificate – C40160A

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>Program Major Courses</b>						
ELN 235	Data Communication Sys.	3	3	0		4
						<b>4</b>
<b>Other Major Courses</b>						
CET 245	Internet Servers	2	3	0		3
EGR 125	Appl Software for Tech	1	2	0		2
ELN 237	Local Area Networks	2	3	0		3
ELN 238	Advanced LANs	2	3	0		3
						<b>11</b>
<b>Total Hours for Graduation</b>						<b>15</b>

## Computer Engineering Technology - Computer Programming Certificate - C40160B

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>Program Major Courses</b>						
CSC 151	Java Programming	2	3	0		3
						<b>3</b>
<b>Other Major Courses</b>						
EGR 125	Appl Software for Tech	1	2	0		2
CET 251	Software Eng Principles	3	3	0		4
CSC 143	Object-Oriented Programming	2	3	0		3
CSC 251	Adv Java Programming	2	3	0		3
						<b>12</b>
<b>Total Hours for Graduation</b>						<b>15</b>

## Computer Engineering Technology - PC Build and Repair Certificate – C40160C

		Class	Lab	Hrs Clin	Work Exp	Credits
ELC 131	Circuit Analysis I	3	3	0		4
ELC 131A	Circuit Analysis I Lab	0	3	0		1
EGR 125	Appl Software for Tech	1	2	0		2
CET 111	Computer Upgrade/Repair I	2	3	0		3
CET 211	Computer Upgrade/Repair II	2	3	0		3
<b>Total Semester Hour Credits for Certificate</b>						<b>13</b>

## Computer-Integrated Machining – A50210

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

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

Graduates should qualify for employment as machining technicians in high-tech manufacturing, rapid-prototyping and rapid-manufacturing industries, specialty machine shops, fabrication industries, and high-tech or emerging industries such as aerospace, aviation, medical, and renewable energy, and to sit for machining certification examinations.

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education</b>						
COM 110	Introduction to Communication	3	0	0		3
	or					
COM 231	Public Speaking	3	0	0		3
ENG 110	Freshman Composition	3	0	0		3
	or					
ENG 111	Writing and Inquiry	3	0	0		3
MAT 121	Algebra/Trigonometry I	2	2	0		3
	or					
MAT 171	Precalculus Algebra	3	2	0		4
HUM/FA	Humanities/Fine Arts Core Elective	3	0	0		3
SOC/BEH	Social/Behavioral Sci. Core Elective	3	0	0		3
						<b>16</b>
<b>Major Core Courses</b>						
BPR 111	Print Reading	1	2	0		2
MAC 124	CNC Milling	1	3	0		2
MAC 141	Machining Applications I	2	6	0		4
MAC 142	Machining Applications II	2	6	0		4
						<b>12</b>
<b>Other Major Courses</b>						
DFT 119	Basic CAD	1	2	0		2
ISC 112	Industrial Safety	2	0	0		2
MAC 121	Introduction to CNC	2	0	0		2
MAC 122	CNC Turning	1	3	0		2
MAC 141A	Machining Appl I Lab	0	6	0		2
MAC 142A	Machining Appl II Lab	0	6	0		2
MAC 143	Machining Applications III	2	6	0		4

MAC 151	Machining Calculations	1	2	0	2
MAC 152	Adv. Machining Calculations	1	2	0	2
MAC 171	Measure/Material & Safety	0	2	0	1
MAC 224	Advanced CNC Milling	1	3	0	2
MAC 226	CNC EDM Machining	1	3	0	2
MAC 241	Jigs and Fixtures I	2	6	0	4
MEC 231	Comp-Aided Manufact. I	1	4	0	3
MEC 232	Comp-Aided Manufact. II	1	4	0	3

**35****Other Major Elective Courses** (choose 10 hours from list below)

ATR 280	Robotic Fundamentals	3	2	0	4
ATR 281	Automated Manufacturing	3	2	0	4
WBL 112	Work Based Learning I	0	0	20	2
MAC 222	Advanced CNC Turning	1	3	0	2
MAC 234	Adv. Multi-Axis Machining	2	3	0	3
MAC 247	Production Tooling	2	0	0	2
MAC 248	Production Procedures	1	2	0	2
WLD 112	Basic Welding Processes	1	3	0	2
WLD 151	Fabrication I	2	6	0	3
WLD 251	Fabrication II	1	6	0	3

**10****Other Required Courses**

ACA 122	College Transfer Success	0	2	0	0	1
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**1****Total Semester Hour Credits for AAS Degree** **73****Computer-Integrated Machining Diploma – D50210**

				Hrs	Work	Credits
		Class	Lab	Clin	Exp	
<b>General Education Courses</b>						
ENG 110	Freshman Composition	3	0	0		3
	or					
ENG 111	Writing and Inquiry	3	0	0		3
MAT 110	Mathematical Measurement	2	2	0		3
	or					
MAT 121	Algebra/Trigonometry I	2	2	0		3

**6****Major Core Courses**

BPR 111	Print Reading	1	2	0		2
MAC 124	CNC Milling	1	3	0		2
MAC 141	Machining Applications I	2	6	0		4
MAC 142	Machining Applications II	2	6	0		4

**12**

**Other Major Courses**

DFT 119	Basic CAD	1	2	0	2
ISC 112	Industrial Safety	2	0	0	2
MAC 121	Introduction to CNC	2	0	0	2
MAC 122	CNC Turning	1	3	0	2
MAC 141A	Machining Appl I Lab	0	6	0	2
MAC 142A	Machining Appl II Lab	0	6	0	2
MAC 143	Machining Applications III	2	6	0	4
MAC 151	Machining Calculations	1	2	0	2
MAC 152	Adv. Machining Calculations	1	2	0	2
MAC 171	Measure/Material & Safety	0	2	0	1

**21****Total Semester Hour Credits for Diploma****39****Computer-Integrated Machining – Machine Operator Certificate – C50210A**

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>Major Core Courses</b>						
BPR 111	Print Reading	1	2	0		2
MAC 141	Machining Applications I	2	6	0		4
						<b>6</b>

**Other Major Courses**

MAC 121	Introduction to CNC	2	0	0		2
MAC 141A	Machining Appl I Lab	0	6	0		2
MAC 151	Machining Calculations	1	2	0		2
MAC 171	Measure/Material & Safety	0	2	0		1

**7****Total Semester Hour Credits for Certificate****13****Computer-Integrated Machining – Computer Numerical Controlled Certificate – C50210B**

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>Major Core Courses</b>						
MAC 124	CNC Milling	1	3	0		2
						<b>2</b>

**Other Major Courses**

DFT 119	Basic CAD	1	2	0		2
MAC 121	Introduction to CNC	2	0	0		2
MAC 122	CNC Turning	1	3	0		2
MAC 226	CNC EDM Machining	1	3	0		2
MEC 231	Comp.-Aided Manufact. I	1	4	0		3

**11**

**Total Semester Hour Credits for Certificate** **13**  
**Computer-Integrated Machining – Advanced CNC Certificate**  
**C50210C**

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>Other Major Courses</b>						
ISC 112	Industrial Safety	2	0	0		2
MAC 222	Advanced CNC Turning	1	3	0		2
MAC 224	Advanced CNC Milling	1	3	0		2
MAC 234	Adv. Four/Five-Axis Machining	2	3	0		3
MEC 232	Computer Aided Manufacturing II	1	4	0	0	3

**12****Total Semester Hour Credits for Certificate****12**

**Computer-Integrated Machining – Robotics Machining**  
**Certificate – C50210D**

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>Major Core Courses</b>						
MAC 124	CNC Milling	1	3	0		2

**2****Other Major Courses**

ATR 280	Robotics Fundamentals	3	2	0		4
ATR 281	Automated Manufacturing	3	2	0		4
DFT 119	Basic CAD	1	2	0		2
MAC 122	CNC Turning	1	3	0		2

**12****Total Semester Hour Credits for Certificate****14**

## Cosmetology – A55140

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.

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education Courses</b>						
COM 231	Public Speaking	3	0	0	0	3
ENG 111	Writing and Inquiry	3	0	0	0	3
MAT 143	Quantitative Literacy	2	2	0	0	3
PSY 150	General Psychology	3	0	0	0	3
Humanities/Fine Arts Elective		3	0	0	0	3
						<b>15</b>
<b>Major Core Courses</b>						
COS 111	Cosmetology Concepts I	4	0	0	0	4
COS 112	Salon I	0	24	0	0	8
COS 113	Cosmetology Concepts II	4	0	0	0	4
COS 114	Salon II	0	24	0	0	8
COS 115	Cosmetology Concepts III	4	0	0	0	4
COS 116	Salon III	0	12	0	0	4
COS 117	Cosmetology Concepts IV	2	0	0	0	2
						<b>34</b>
<b>Other Major Courses</b>						
BUS 110	Intro. to Business	3	0	0	0	3
CIS 110	Intro. to Computers	2	2	0	0	3
COS 223	Contemp Hair Coloring	1	3	0	0	2
COS 118	Salon IV	0	21	0	0	7
						<b>15</b>
<b>Other Required Courses</b>						
ACA 122	College Transfer Success	0	2	0	0	1
						<b>1</b>
<b>Total Semester Hour Credits for AAS Degree</b>						<b>65</b>



## Cosmetology Diploma – D55140

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education Courses</b>						
ENG 110	Freshman Composition	3	0	0	0	3
PSY 150	General Psychology	3	0	0	0	3
						<b>6</b>
<b>Major Core Courses</b>						
COS 111	Cosmetology Concepts I	4	0	0	0	4
COS 112	Salon I	0	24	0	0	8
COS 113	Cosmetology Concepts II	4	0	0	0	4
COS 114	Salon II	0	24	0	0	8
COS 115	Cosmetology Concepts III	4	0	0	0	4
COS 116	Salon III	0	12	0	0	4
COS 117	Cosmetology Concepts IV	2	0	0	0	2
COS 118	Salon IV	0	21	0	0	7
						<b>41</b>
<b>Related Course Options: COS 117, COS Concepts IV</b>		2	0	0	0	2
<b>Total Semester Hour Credits for Diploma</b>						<b>47</b>

## Cosmetology Certificate – C55140A

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>Major Core Courses</b>						
COS 111	Cosmetology Concepts I	4	0	0	0	4
COS 112	Salon I	0	24	0	0	8
COS 113	Cosmetology Concepts II	4	0	0	0	4
COS 114	Salon II	0	24	0	0	8
COS 115	Cosmetology Concepts III	4	0	0	0	4
COS 117	Cosmetology Concepts IV	2	0	0	0	2
						<b>34</b>
<b>Total Semester Hour Credits for Certificate</b>						

Note: Certificate students are encouraged to take COS 118 (Salon IV, 7 hours credit) and COS 117 (Concepts IV, 2 hours credit) for the state licensure exam.

## Criminal Justice Technology – A55180

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

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

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

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education</b>						
COM 231	Public Speaking	3	0	0	0	3
	or					
COM 110	Intro to Communication	3	0	0	0	3
ENG 111	Writing and Inquiry	3	0	0	0	3
ENG 114	Professional Research & Reporting	3	0	0	0	3
HUM/FA	Elective	3	0	0	0	3
MAT 143	Quantitative Literacy	2	2	0	0	3
SOC/BEH	Elective	3	0	0	0	3

**18**

### Major Core Courses

CJC 111	Introduction to Criminal Justice	3	0	0	0	3
CJC 112	Criminology	3	0	0	0	3
CJC 113	Juvenile Justice	3	0	0	0	3
CJC 131	Criminal Law	3	0	0	0	3
CJC 212	Ethics & Community Relations	3	0	0	0	3
CJC 221	Investigative Principles	3	2	0	0	4
CJC 231	Constitutional Law	3	0	0	0	3

**22**

### Other Major Courses

CIS 110	Introduction to Computers	2	2	0	0	3
CJC 121	Law Enforcement Operations	3	0	0	0	3
CJC 122	Community Policing	3	0	0	0	3
CJC 132	Court Procedure & Evidence	3	0	0	0	3
CJC 141	Corrections	3	0	0	0	3
CJC 213	Substance Abuse	3	0	0	0	3

CJC 214	Victimology	3	0	0	0	3
	or					
CJC 120	Interviews/Interrogations	1	2	0	0	2
CJC 215	Organization & Administration	3	0	0	0	3
	or					
CJC 225	Crisis Intervention	3	0	0	0	3
CJC 241	Community-Based Corrections	3	0	0	0	3
	or					
CJC 222	Criminalistics	3	0	0	0	3
SPA 120	Spanish for the Workplace	3	0	0	0	3

**31-32*****HUM/FA Elective Courses (Select 1 Course)***

HUM 110, HUM 115, HUM 120, HUM 130, HUM 150, HUM 211, HUM 212, PHI 215, PHI 220, PHI 230, PHI 240, REL 110, REL 211, REL 212

***SOC/BEH Elective Courses (Select 1 Course)***

ANT 210, ANT 220, HIS 111, HIS 112, HIS 212, HIS 122, HIS 131, HIS 132, POL 110, POL 120, POL 220, PSY 150, PSY 239, PSY 241, PSY 281, SOC 210, SOC 213, SOC 220, SOC 240

**Other Required Courses**

ACA 122	College Transfer Success	0	2	0	0	1
						<b>1</b>

**Total Semester Hour Credits for AAS Degree****72-73****Criminal Justice Certificate – C55180A**

		Hrs				Credits
		Class	Lab	Clin	Work Exp	
CJC 111	Introduction to Criminal Justice	3	0	0	0	3
CJC 121	Law Enforcement Operations	3	0	0	0	3
CJC 112	Criminology	3	0	0	0	3
CJC 231	Constitutional Law	3	0	0	0	3

**Total Semester Hour Credits for Certificate****12****Criminal Justice Technology/Forensic Science Concentration – A5518C**

Latent Evidence is a concentration under the curriculum of Criminal Justice Technology. This curriculum is designed to provide knowledge of latent evidence systems and operations. Study will focus on local, state, and federal law enforcement, evidence processing and procedures. Students will learn both theory and hands-on analysis of latent evidence. They will learn fingerprint classification, identification, and chemical development. Students will record, cast, and recognize footwear and tire-tracks; and process crime scenes. Issues and concepts of communications and the use of computers and computer assisted design programs in crime scene technology will be discussed.

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

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education</b>						
COM 231	Public Speaking	3	0	0	0	3
ENG 111	Writing and Inquiry	3	0	0	0	3
HUM/FA	Elective	3	0	0	0	3
MAT 143	Quantitative Literacy	2	2	0	0	3
SOC/BEH	Elective	3	0	0	0	3
						<b>15</b>

### Major Core Courses

CJC 111	Introduction to Criminal Justice	3	0	0	0	3
CJC 112	Criminology	3	0	0	0	3
CJC 113	Juvenile Justice	3	0	0	0	3
CJC 131	Criminal Law	3	0	0	0	3
CJC 212	Ethics and Community Relations	3	0	0	0	3
CJC 221	Investigative Principles	3	2	0	0	4
CJC 231	Constitutional Law	3	0	0	0	3
						<b>22</b>

### Other Major Courses

CJC 114	Investigative Photography	1	2	0	0	2
CJC 132	Court Procedure and Evidence	3	0	0	0	3
CJC 144	Crime Scene Processing	2	3	0	0	3
CJC 145	Crime Scene CAD	2	3	0	0	3
CJC 146	Trace Evidence	2	3	0	0	3
CJC 214	Victimology	3	0	0	0	3
CJC 222	Criminalistics	3	0	0	0	3
CJC 245	Friction Ridge Analysis	2	3	0	0	3
CJC 246	Adv. Friction Analysis	2	3	0	0	3
CJC 250	Forensic Biology	3	2	0	0	4
						<b>30</b>

### *HUM/FA Elective Courses (Select 1 Course)*

HUM 110, HUM 115, HUM 120, HUM 130, HUM 150, HUM 211, HUM 212, PHI 215, PHI 220, PHI 230, PHI 240, REL 110, REL 211, REL 212

### *SOC/BEH Elective Courses (Select 1 Course)*

ANT 210, ANT 220, HIS 111, HIS 112, HIS 212, HIS 122, HIS 131, HIS 132, POL 110, POL 120, POL 220, PSY 150, PSY 239, PSY 241, PSY 281, SOC 210, SOC 213, SOC 220, SOC 240

### Other Required Courses

ACA 122	College Transfer Success	0	2	0	0	1
						<b>1</b>
<b>Total Semester Hour Credits for AAS Degree</b>						<b>67</b>

## Culinary Arts – A55150

The Culinary Arts curriculum provides specific training required to prepare students to assume positions as trained culinary professionals in a variety of food service settings including full service restaurants, hotels, resorts, clubs, catering operations, contract food service, and health care facilities.

Students will be provided theoretical knowledge/practical application that provide critical competencies to meet industry demands, including environmental stewardship, operational efficiencies and professionalism. Courses include sanitation/safety, baking, garde manger, culinary fundamentals/production skills, nutrition, customer service, purchasing/cost control, and human resource management.

Graduates should qualify for entry-level opportunities including prep cook, line cook, and station chef. American Culinary Federation certification may be available to graduates. With experience, graduates may advance to positions including sous chef, pastry chef, executive chef, or foodservice manager.

Note: Students must pass CUL 110 with a grade of C or better and must pass the ServSafe Food Safety exam with a 75% or better during the course in order to receive credit toward graduation and satisfy the CUL 110 prerequisite for culinary courses.

All CUL prefixed courses must be passed with a grade of 'C' or better in order to progress to a subsequent course and fulfill graduation requirements.

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education</b>						
COM 110	Introduction to Communication	3	0	0	0	3
ENG 111	Writing and Inquiry	3	0	0	0	3
HUM/FA	Humanities/Fine Arts Elective	3	0	0	0	3
MAT 143	Quantitative Literacy	2	2	0	0	3
PSY 150	General Psychology	3	0	0	0	3
						<b>15</b>
<b>Major Core Courses</b>						
CUL 110	Sanitation and Safety	2	0	0	0	2
CUL 112	Nutrition for Food Service	3	0	0	0	3
CUL 120	Purchasing	2	0	0	0	2
CUL 135	Food and Beverage Service	2	0	0	0	2
CUL 140	Culinary Skills I	2	6	0	0	5
CUL 160	Baking I	1	4	0	0	3
CUL 170	Garde Manger I	1	4	0	0	3
CUL 240	Culinary Skills II	1	8	0	0	5
HRM 245	Human Resource Management - Hospitality	3	0	0	0	3
WBL 131	Work Based Learning III	0	0	0	10	1

WBL 211	Work Based Learning IV	0	0	0	10	1
						<b>30</b>

**Other Major Courses**

CUL 120A	Purchasing Lab	0	2	0	0	1
CUL 130	Menu Design	2	0	0	0	2
CUL 135A	Food and Beverage Service Lab	0	2	0	0	1
CUL 230	Global Cuisines	1	8	0	0	5
CUL 250	Classical Cuisine	1	8	0	0	5
CUL 260	Baking II	1	4	0	0	3
CUL 270	Garde Manger II	1	4	0	0	3
HRM 110	Introduction to Hospitality & Tourism	3	0	0	0	3
HRM 220	Cost Control - Food & Beverage	3	0	0	0	3
						<b>26</b>

**Other Required Courses**

ACA 122	College Transfer Success	0	2	0	0	1
CIS 110	Introduction to Computers	2	2	0	0	3
	or					
HOR 245	Horticulture Specialty Crops	2	2	0	0	3
						<b>4</b>

**Total Semester Hour Credits for AAS Degree** **75**

**Culinary Arts - Foodservice Diploma – D55150**

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education</b>						
COM 110	Introduction to Communication	3	0	0	0	3
ENG 111	Writing and Inquiry	3	0	0	0	3
						<b>6</b>

**Major Core Courses**

CUL 110	Sanitation and Safety	2	0	0	0	2
CUL 120	Purchasing	2	0	0	0	2
CUL 130	Menu Design	2	0	0	0	2
CUL 140	Culinary Skills I	2	6	0	0	5
CUL 160	Baking I	1	4	0	0	3
CUL 240	Culinary Skills II	1	8	0	0	5
CUL 260	Baking II	1	4	0	0	3
HRM 110	Introduction to Hospitality & Tourism	3	0	0	0	3
						<b>25</b>

**Other Major Courses**

CUL 112	Nutrition for Food Service	3	0	0	0	3
CUL 120A	Purchasing Lab	0	2	0	0	1
CUL 135	Food and Beverage Service	2	0	0	0	2
CUL 135A	Food and Beverage Service Lab	0	2	0	0	1
						<b>7</b>

<b>Total Semester Hour Credits for Diploma</b>						<b>38</b>
<b>Essential Culinary Skills Certificate– C55150A</b>						
CUL 110	Sanitation and Safety	2	0	0	0	2
CUL 135	Food and Beverage Service	2	0	0	0	2
CUL 135A	Food and Beverage Service Lab	0	2	0	0	1
CUL 140	Culinary Skills I	2	6	0	0	5
CUL 240	Culinary Skills II	1	8	0	0	5
<b>Total Semester Hour Credits for Certificate</b>						<b>15</b>

### **Baking Certificate– C55150B**

CUL 110	Sanitation and Safety	2	0	0	0	2
CUL 120	Purchasing	2	0	0	0	2
CUL 120A	Purchasing Lab	0	2	0	0	1
CUL 130	Menu Design	2	0	0	0	2
CUL 160	Baking I	1	4	0	0	3
CUL 260	Baking II	1	4	0	0	3
<b>Total Semester Hour Credits for Certificate</b>						<b>13</b>

### **Advanced Catering for Entertaining Certificate– C55150C**

CUL 130	Menu Design	2	0	0	0	2
CUL 170	Garde Manger I	1	4	0	0	3
CUL 230	Global Cuisines	1	8	0	0	5
CUL 260	Baking II	1	4	0	0	3
<b>Total Semester Hour Credits for Certificate</b>						<b>13</b>

### **Early Childhood Education – A55220**

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

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

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

		Class		Hrs		Work		Credits
		Lab		Clin	Exp			
<b>General Education</b>								
COM 231	Public Speaking		3	0	0	0	0	3

ENG 111	Writing and Inquiry	3	0	0	0	3
ENG 114	Professional Research & Reporting	3	0	0	0	3
MAT 143	Quantitative Literacy	2	2	0		3
PSY 150	General Psychology	3	0	0		3
Humanities/Fine Arts Elective		3	0	0	0	3

**18****Major Core Courses**

EDU 119	Intro. to Early Childhood Education	4	0	0	0	4
EDU 131	Child, Family, & Community	3	0	0	0	3
EDU 144	Child Development I	3	0	0	0	3
EDU 145	Child Development II	3	0	0	0	3
EDU 146	Child Guidance	3	0	0	0	3
EDU 151	Creative Activities	3	0	0	0	3
EDU 153	Health, Safety & Nutrition	3	0	0	0	3
EDU 221	Children with Exceptionalities	3	0	0	0	3
EDU 234	Infants, Toddlers and Twos	3	0	0	0	3
EDU 280	Language & Literacy Experiences	3	0	0	0	3
EDU 284	EC Capstone	1	9	0	0	4

**35****Other Major Courses**

EDU 184	Early Childhood Intro Pract	1	3	0	0	2
SOC 210	Introduction to Sociology	3	0	0	0	3
EDU 261	Early Childhood Administration I	3	0	0	0	3
EDU 262	Early Childhood Administration II	3	0	0	0	3
EDU 271	Educational Technology	3	0	0	0	3
	or					
EDU 259	Curriculum Planning	3	0	0	0	3
	or					
EDU 251	Exploration Activities	3	0	0	0	3
	or					
EDU 163	Classroom Management & Instruct	3	0	0	0	3
	or					
EDU 282	Early Childhood Literature	3	0	0	0	3

**17****Other Requires Courses**

ACA 122	College Transfer Success	0	2	0	0	1
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**1****Total Semester Hour Credits for AAS Degree****71**



## Early Childhood Education Diploma– D55220

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education</b>						
ENG 111	Writing and Inquiry	3	0	0	0	3
ENG 114	Professional Research & Reporting	3	0	0	0	3
						<b>6</b>
<b>Major Core Courses</b>						
EDU 119	Intro. to Early Childhood Education	4	0	0	0	4
EDU 131	Child, Family, & Community	3	0	0	0	3
EDU 144	Child Development I	3	0	0	0	3
EDU 145	Child Development II	3	0	0	0	3
EDU 146	Child Guidance	3	0	0	0	3
EDU 151	Creative Activities	3	0	0	0	3
EDU 153	Health, Safety & Nutrition	3	0	0	0	3
						<b>22</b>
<b>Other Major Courses</b>						
EDU 184	Early Childhood Intro Pract	1	3	0	0	2
EDU 234	Infants, Toddlers and Twos	3	0	0	0	3
EDU 259	Curriculum Planning	3	0	0	0	3
						<b>8</b>
<b>Other Required Courses</b>						
ACA 122	College Transfer Success	0	2	0	0	1
<b>Total Semester Hour Credits for Diploma</b>						<b>37</b>

## ECE - Early Childhood Certificate – C55220

		Class	Lab	Hrs Clin	Work Exp	Credits
EDU 119	Intro. to Early Childhood Education	4	0	0	0	4
EDU 131	Child, Family and Community	3	0	0	0	3
EDU 144	Child Development I	3	0	0	0	3
EDU 146	Child Guidance	3	0	0	0	3
<b>Total Semester Hour Credits for Certificate</b>						<b>13</b>

## ECE - Infant Toddler Certificate – C55220H

		Class	Lab	Hrs Clin	Work Exp	Credits
EDU 119	Intro. to Early Childhood Education	4	0	0	0	4
EDU 131	Child, Family and Community	3	0	0	0	3
EDU 146	Child Guidance	3	0	0	0	3
EDU 234	Infants, Toddlers, & Twos	3	0	0	0	3
<b>Total Semester Hour Credits for Certificate</b>						<b>13</b>

**ECE - Intentional Teacher Certificate – C55220J**

		Class	Lab	Hrs		Work	Credits
				Clin	Exp		
EDU 119	Intro. to Early Childhood Education	4	0	0	0		4
EDU 151	Creative Activities	3	0	0	0		3
EDU 153	Health, Safety & Nutrition	3	0	0	0		3
EDU 259	Curriculum Planning	3	0	0	0		3
EDU 280	Language & Literacy Experiences	3	0	0	0		3
<b>Total Semester Hour Credits for Certificate</b>							<b>16</b>

**ECE - School-Age Certificate – C55220I**

		Class	Lab	Hrs		Work	Credits
				Clin	Exp		
EDU 119	Intro. to Early Childhood Education	4	0	0	0		4
EDU 131	Child, Family and Community	3	0	0	0		3
EDU 145	Child Development II	3	0	0	0		3
EDU 146	Child Guidance	3	0	0	0		3
EDU 282	Early Childhood Literature	3	0	0	0		3
<b>Total Semester Hour Credits for Certificate</b>							<b>16</b>

**ECE - Teacher Associate Certificate – C55220B**

		Class	Lab	Hrs		Work	Credits
				Clin	Exp		
EDU 131	Child, Family & Community	3	0	0	0		3
EDU 145	Child Development II	3	0	0	0		3
EDU 146	Child Guidance	3	0	0	0		3
EDU 163	Classroom Management & Instruct	3	0	0	0		3
EDU 271	Educational Technology	2	2	0	0		3
<b>Total Semester Hour Credits for Certificate</b>							<b>15</b>

**ECE - Early Childhood Administration Certificate – C55220G**

		Class	Lab	Hrs		Work	Credits
				Clin	Exp		
EDU 119	Intro. to Early Childhood Education	4	0	0	0		4
EDU 131	Child, Family and Community	3	0	0	0		3
EDU 146	Child Guidance	3	0	0	0		3
EDU 261	Early Childhood Administration I	3	0	0	0		3
EDU 262	Early Childhood Administration II	3	0	0	0		3
<b>Total Semester Hour Credits for Certificate</b>							<b>16</b>

## ECE - Early Childhood CTE Certificate – C55220A

		Class	Lab	Hrs		Credits
				Clin	Work Exp	
EDU 119	Intro. to Early Childhood Education	4	0	0	0	4
EDU 131	Child, Family and Community	3	0	0	0	3
EDU 146	Child Guidance	3	0	0	0	3
EDU 153	Health, Safety & Nutrition	3	0	0	0	3
<b>Total Semester Hour Credits for Certificate</b>						<b>13</b>

## Electric Line Construction Technology – A35230

The Electric Line Construction curriculum prepares individuals for line construction in the preparation and repair of rural electrical utility service. Students will combine electrical theory with laboratory and practical applications in the course of study.

Students will be expected to master competencies such as those included in elements of electricity; overhead pole and electrical line construction, safety codes and applications, electric power system, transformer and meter installations, and exploration of underground electrical distribution.

Upon successful completion of the program, individuals will receive the Associate in Applied Science degree and will possess the necessary skills for employment in the dynamic electrical utility field.

Entry into the program restricted by employment requirement.

		Class	Lab	Hrs		Credits
				Clin	Work Exp	
<b>General Education Courses</b>						
COM 110	Introduction to Communication or	3	0	0	0	3
COM 231	Public Speaking	3	0	0	0	3
ENG 110	Freshman Composition or	3	0	0	0	3
ENG 111	Writing and Inquiry	3	0	0	0	3
HUM/FA	Humanities/Fine Arts Core Elective	3	0	0	0	3
MAT 121	Algebra/Trigonometry I or	2	2	0	0	3
MAT 171	Precalculus Algebra	3	2	0	0	4
SOC/BEH	Social Behavioral Sci. Core Elective	3	0	0	0	3
						<b>15-16</b>

### Major Core Courses

ELC 111	Introduction to Electricity	2	2	0	0	3
ELC 231	Electric Power Systems	3	2	0	0	4
ELC 233	Energy Management	2	2	0	0	3
ELT 111	Intro. to Electric Line Construction	2	0	0	0	2

ELT 112	National Electrical Safety Code	2	2	0	0	3
ELT 114	Overhead Line Construction I	2	0	0	0	2
ELT 115	Overhead Line Construction II	2	0	0	0	2
ELT 116	Overhead Line Construction III	2	0	0	0	2
ELT 117	Overhead Line Construction IV	2	0	0	0	2
ELT 211	Underground Line Construction I	2	0	0	0	2
ELT 212	Underground Line Construction II	2	0	0	0	2
ELT 221	Advanced Line Construction	2	0	0	0	2

**29****Other Major Courses**

CIS 110	Introduction to Computers	2	2	0	0	3
WBL124	Work Based Learning II	0	0	0	40	4
WBL 134	Work Based Learning III	0	0	0	40	4
ELC 126	Electrical Computations	2	2	0	0	3
ELT 111A	Intro. to Electric Line Construction Lab	2	0	0	0	2
HEA 112	First Aid and CPR	1	2	0	0	2

**18****Other Required Courses**

WBL114	Work Based Learning I	0	0	0	40	4
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**4****Total Semester Hour Credits for AAS Degree****66-67****Electric Line Construction Technology Diploma – D35230**

				Hrs	Work	
		Class	Lab	Clin	Exp	Credits
<b>General Education</b>						
ENG 110	Freshman Composition	3	0	0	0	3
	or					
ENG 111	Writing and Inquiry	3	0	0	0	3
MAT110	Mathematical Measurement	2	2	0	0	3
	or					
MAT 121	Algebra/Trigonometry I	2	2	0	0	3

**6****Major Core Courses**

ELC 111	Introduction to Electricity	2	2	0	0	3
ELC 126	Electrical Computations	2	2	0	0	3
ELC 231	Electrical Power Systems	3	2	0	0	4
ELC 233	Energy Management	2	2	0	0	3
ELT 111	Intro. to Electric Line Construction	2	0	0	0	2
ELT 114	Overhead Line Construction I	2	0	0	0	2
ELT 211	Underground Line Construction I	2	0	0	0	2

**19****Other Major Courses**

CIS 110	Introduction to Computers	2	2	0	0	3
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ELC 126	Electrical Computations	2	2	0	0	3
ELT 111A	Intro. to Electric Line Construction Lab	0	6	0	0	2
HEA 112	First Aid & Life Saving	1	2	0	0	2
						<b>10</b>
<b>Other Required Courses</b>						
WBL114	Work Based Learning I	0	0	0	40	4
						<b>4</b>
<b>Total Semester Hour Credits for Diploma</b>						<b>39</b>

## Electric Line Construction Technology Certificate – C35230A Advanced

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>Major Core Courses</b>						
ELT 111	Intro. to Electric Line Construction	2	0	0	0	2
ELT 112	National Electrical Safety Code	2	2	0	0	3
ELT 114	Overhead Line Construction I	2	0	0	0	2
ELT 115	Overhead Line Construction II	2	0	0	0	2
ELT 116	Overhead Line Construction III	2	0	0	0	2
ELT 117	Overhead Line Construction IV	2	0	0	0	2
ELT 211	Underground Line Construction I	2	0	0	0	2
ELT 212	Underground Line Construction II	2	0	0	0	2
<b>Total Semester Hour Credits for Certificate</b>						<b>17</b>

## Electric Line Construction Technology Certificate – C35230B Third Class

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>Major Core Courses</b>						
ELC 111	Introduction to Electricity	2	2	0	0	3
ELT 111	Intro. to Electric Line Construction	2	0	0	0	2
ELT 114	Overhead Line Construction. I	2	0	0	0	2
ELT 211	Underground Line Construction I	2	0	0	0	2
						<b>9</b>
<b>Other Major Courses</b>						
ELC 126	Electrical Computations	2	2	0	0	3
ELT 111A	Intro. to Electric Line Construction Lab	0	6	0	0	2
HEA 112	First Aid and CPR	1	2	0	0	2
						<b>7</b>
<b>Total Semester Hour Credits for Certificate</b>						<b>16</b>

Students will have the opportunity to earn their Class A CDL license through the Continuing Education Department.

## Electrical Systems Technology – A35130

This curriculum is designed to provide training for persons interested in the installation and maintenance of electrical systems found in residential, commercial, and industrial facilities.

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

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

		Class	Lab	Clin Exp	Work Exp	Credit
<b>General Education Courses</b>						
COM 110	Introduction to Communication	3	0	0	0	3
	or					
COM 231	Public Speaking	3	0	0	0	3
ENG 110	Freshman Composition	3	0	0	0	3
	or					
ENG 111	Writing and Inquiry	3	0	0	0	3
	Humanities/Fine Arts Core Elective	3	0	0	0	3
MAT 121	Algebra/Trigonometry 1	2	2	0	0	3
	or					
MAT 171	Precalculus Algebra	3	2	0	0	4
	Social/Behavioral Science Core Elective	3	0	0	0	3

**15-16**

### Technical Core Courses

ELC 113	Residential Wiring	2	6	0	0	4
ELC 117	Motors and Controls	2	6	0	0	4
ELC 131	Circuit Analysis I	3	3	0	0	4
ELC 131A	Circuit Analysis I Lab	0	3	0	0	1
ELN 260	Pro Logic Controllers	3	3	0	0	4

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### Required Subject Area Courses

ELC 115	Industrial Wiring	2	6	0	0	4
ELC 228	PLC Applications	2	6	0	0	4
ELC 213	Instrumentation	3	2	0	0	4

**12**

### Other Major Courses

ATR 280	Robotic Fundamentals	3	2	0	0	4
ATR 281	Automated Manufacturing	3	2	0	0	4
EGR 125	Appl Software for Tech	1	2	0	0	2
ELN 235	Data Communication Systems	3	3	0	0	4
ELN 131	Analog Electronics I	3	3	0	0	4
HYD 110	Hydraulics/Pneumatics I	2	3	0	0	3

ISC 112	Industrial Safety	2	0	0	0	2
PCI 264	Process Control with PLCs	3	3	0	0	4
						<b>35</b>

**Other Required Courses**

ACA 122	College Transfer Success	0	2	0	0	1
						<b>1</b>

**Total Hours for Graduation****72-73****Electrical Systems Technology Diploma – D35130**

		Class	Lab	Clin Exp	Work Exp	Credit
<b>General Education</b>						
ENG 110	Freshman Composition or	3	0	0	0	3
ENG 111	Writing and Inquiry	3	0	0	0	3
MAT 121	Algebra/Trigonometry I or	2	2	0	0	3
MAT 171	Precalculus Algebra	3	2	0	0	4
						<b>6-7</b>

**Technical Core Courses**

ELC 113	Residential Wiring	2	6	0	0	4
ELC 117	Motors and Controls	2	6	0	0	4
ELC 131	Circuit Analysis I	3	3	0	0	4
ELC 131A	Circuit Analysis I Lab	0	3	0	0	1
ELN 260	Pro Logic Controllers	3	3	0	0	4
						<b>17</b>

**Required Subject Area Courses**

ELC 115	Industrial Wiring	2	6	0	0	4
ELC 213	Instrumentation	3	2	0	0	4
						<b>8</b>

**Other Major Courses**

ELN 131	Analog Electronics I	3	3	0	0	4
EGR 125	Appl Software for Tech	1	2	0	0	2
ISC 112	Industrial Safety	2	0	0	0	2
						<b>8</b>

**Total Hours for Graduation****39-40**

## Electrical Systems Technology - Electrical Wiring Certificate – C35130A

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>Technical Core Courses</b>						
ELC 113	Basic Wiring I	2	6	0	0	4
ELC 131	Circuit Analysis I	3	3	0	0	4
ELC 131A	Circuit Analysis I Lab	0	3	0	0	1
						<b>9</b>
ELC 115	Industrial Wiring	2	6	0	0	4
EGR 125	Appl Software for Tech	1	2	0	0	2
						<b>6</b>
<b>Total Hours for Graduation</b>						<b>15</b>

## Electrical Systems Technology - Electrical Controls Certificate – C35130B

		Class	Lab	Clin Exp	Work Exp	Credit
<b>Technical Core Courses</b>						
ELC 117	Motors and Controls	2	6	0	0	4
ELC 131	Circuit Analysis I	3	3	0	0	4
ELC 131A	Circuit Analysis I Lab	0	3	0	0	1
ELN 260	Prog Logic Controllers	3	3	0	0	4
						<b>13</b>
<b>Total Hours for Graduation</b>						<b>13</b>

## Electrical Systems Technology - PLC Controls Certificate – C35130C

		Class	Lab	Clin Exp	Work Exp	Credit
<b>Technical Core Courses</b>						
ELN 260	Prog. Logic Controllers	3	3	0	0	4
						<b>4</b>
<b>Required Subject Area Courses</b>						
ELC 228	PLC Applications	2	6	0	0	4
						<b>4</b>
<b>Other Major Courses</b>						
PCI 264	Process Control with PLCs	3	3	0	0	4
						<b>4</b>
<b>Total Hours for Graduation</b>						<b>12</b>



## Electrical Systems Technology - Industrial Robotics Certificate – C35130D

		Class	Lab	Clin Exp	Work Exp	Credit
<b>Technical Core Courses</b>						
ELN 260	Prog Logic Controllers	3	3	0	0	4
						<b>4</b>
<b>Other Major Courses</b>						
ATR 280	Robotic Fundamentals	3	2	0	0	4
ATR 281	Automated Manufacturing	3	2	0	0	4
ISC 112	Industrial Safety	2	0	0	0	2
						<b>10</b>
<b>Total Hours for Graduation</b>						<b>14</b>

## Electrical Systems Technology - Instrumentation Certificate – C35130E

		Class	Lab	Clin Exp	Work Exp	Credit
<b>Technical Core Courses</b>						
ELC 131	Circuit Analysis I	3	3	0	0	4
ELC 131A	Circuit Analysis I Lab	0	3	0	0	1
ELN 260	Prog Logic Controllers	3	3	0	0	4
						<b>9</b>
<b>Required Subject Area Course</b>						
ELC 213	Instrumentation	3	2	0	0	4
						<b>4</b>
<b>Other Major Courses</b>						
ELN 131	Analog Electronics I	3	3	0	0	4
						<b>4</b>
<b>Total Hours for Graduation</b>						<b>17</b>

## Electronics Engineering Technology – A40200

A course of study that prepares the students to apply basic engineering principles and technical skills to become technicians who design, build, install, test, troubleshoot, repair and modify developmental and production electronic components, equipment, and systems such as industrial/computer controls, manufacturing systems, communication systems, and power electronic systems. Includes instruction in mathematics, basic electricity, solid-state fundamentals, digital concepts, and microprocessors or programmable logic controllers. Graduates should qualify for employment as electronics engineering technician, field service technician, instrumentation technician, maintenance technician, electronic tester, electronic systems integrator, bench technician, and production control technician.

		Class	Lab	Clin Exp	Work Exp	Credit
<b>General Education</b>						
COM 110	Intro. to Communication Or	3	0	0	0	3
COM 231	Public Speaking	3	0	0	0	3
ENG 111	Writing and Inquiry	3	0	0	0	3
ENG 114	Prof. Research and Reporting	3	0	0	0	3
HUM/FA	Humanities/Fine Arts Core Elect.	3	0	0	0	3
MAT 121	Algebra/Trigonometry I Or	2	2	0	0	3
MAT 171	Precalculus Algebra	3	2	0	0	4
SOC/BEH	Social/Behavioral Sci. Core Elect.	3	0	0	0	3

**18-19**

### Technical Core Courses

ELC 131	Circuit Analysis I	3	3	0	0	4
ELN 131	Analog Electronics I	3	3	0	0	4
ELN 133	Digital Electronics	3	3	0	0	4

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### Program Major Courses

ELN 132	Analog Electronics II	3	3	0	0	4
ELN 232	Intro. to Microprocessors	3	3	0	0	4
ELN 260	Prog Logic Controllers	3	3	0	0	4

**12**

### Other Major Courses

ATR 280	Robotic Fundamentals	3	2	0	0	4
CET 111	Computer Upgrade/Repair I	2	3	0	0	3
CSC 151	Java Programming	2	3	0	0	3
EGR 125	Appl Software for Tech	1	2	0	0	2
ELC 131A	Circuit Analysis I Lab	0	3	0	0	1
ELC 213	Instrumentation	3	2	0	0	4
ELN 235	Data Communication Sys.	3	3	0	0	4
ELN 236	Fiber Optics & Lasers	3	2	0	0	4
ELN 275	Troubleshooting	1	3	0	0	2

MAT 122	Algebra/Trigonometry II or	2	2	0	0	3
MAT 172	Precalculus Trigonometry	3	2	0	0	4
						<b>30-31</b>
<b>Other Required Courses</b>						
ACA 122	College Transfer Success	0	2	0	0	1
						<b>1</b>
<b>Total Hours for Graduation</b>						<b>73-75</b>

## Electronics Engineering Technology Diploma – D40200

		Class	Lab	Clin Exp	Work Exp	Credit
<b>General Education</b>						
ENG 111	Writing and Inquiry	3	0	0	0	3
MAT 121	Algebra/Trigonometry I or	2	2	0	0	3
MAT 171	Precalculus Algebra	3	2	0	0	4
						<b>6-7</b>
<b>Technical Core Courses</b>						
ELC 131	Circuit Analysis I	3	3	0	0	4
ELN 131	Analog Electronics I	3	3	0	0	4
ELN 133	Digital Electronics	3	3	0	0	4
						<b>12</b>
<b>Program Major Courses</b>						
ELN 132	Linear IC Applications	3	3	0	0	4
ELN 232	Introduction to Microprocessors	3	3	0	0	4
ELN 260	Prog. Logic Controllers	3	3	0	0	4
						<b>12</b>
<b>Other Major Courses</b>						
EGR 125	Appl Software for Tech	1	2	0	0	2
ELC 131A	Circuit Analysis I Lab	0	3	0	0	1
ATR 280	Robotic Fundamentals or	3	2	0	0	4
CET 111	Computer Upgrade/Repair I	2	3	0	0	3
ELN 235	Data Communication Sys	3	3	0	0	4
ELN 236	Fiber Optics & Lasers	3	2	0	0	4
ELN 275	Troubleshooting	1	3	0	0	2
						<b>18-19</b>
<b>Total Hours for Graduation</b>						<b>46-48</b>

## Electronics Engineering Technology - Basic Electronics Certificate – C40200A

		Class	Lab	Clin Exp	Work Exp	Credit
<b>Technical Core Courses</b>						
ELC 131	Circuit Analysis I	3	3	0	0	4
EGR 125	Appl Software for Tech	1	2	0	0	2
ELN 131	Analog Electronics I	3	3	0	0	4
ELN 133	Digital Electronics	3	3	0	0	4
ELC 131A	Circuit Analysis I Lab	0	3	0	0	1
<b>Total Hours for Graduation</b>						<b>15</b>

## Emergency Management – A55460

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

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

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

This two-year degree program is designed for a student to work full-time in the public services field and attend school full-time on off-duty days. Nash Community College accomplishes this by offering program classes on a flip-flop or distance education delivery.

All EPT and FIP prefixed courses must be passed with a grade of "C" or better in order to progress to a subsequent course and fulfill graduation requirements.

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education Courses</b>						
COM 110	Introduction to Communication	3	0	0	0	3
ENG 111	Writing and Inquiry	3	0	0	0	3
ENG 114	Professional Research & Reporting	3	0	0	0	3
MAT 143	Quantitative Literacy	2	2	0	0	3
SOC/BEH	Social/Behavioral Sci. Core Elective	3	0	0	0	3

HUM/FA	Elective	3	0	0	0	3
<b>18</b>						

**Major Core Courses**

EPT 120	Sociology of Disaster	3	0	0	0	3
EPT 130	Mitigation & Preparedness	3	0	0	0	3
EPT 140	Emergency Management	3	0	0	0	3
EPT 150	Incident Management	2	2	0	0	3
EPT 210	Response & Recovery	3	0	0	0	3
EPT 220	Terrorism and Emergency Mgmt	3	0	0	0	3
EPT 275	Emergency Ops. Center Mgmt	3	0	0	0	3
FIP 152	Fire Protection Law	3	0	0	0	3
FIP 228	Local Government Finance	3	0	0	0	3
<b>27</b>						

**Other Major Courses**

BUS 110	Introduction to Business	3	0	0	0	3
CIS 110	Introduction to Computers	2	2	0	0	3
FIP 120	Introduction to Fire Protection	3	0	0	0	3
FIP 124	Fire Protection & Public Education	3	0	0	0	3
FIP 132	Building Construction	3	0	0	0	3
FIP 136	Inspections and Codes	3	0	0	0	3
FIP 176	Hazardous Material Operation or	4	0	0	0	4
FIP 220	Fire Fighting Strategies	3	0	0	0	3
FIP 240	Fire Service Supervision	3	0	0	0	3
HEA 110	Personal Health and Wellness	3	0	0	0	3
<b>24-25</b>						

**Other Major Courses**

ACA 122	College Transfer Success	0	2	0	0	1
<b>1</b>						

**Hum/FA Elective Courses (Select 1 Course)**

HUM 110, HUM 115, HUM 120, HUM 130, HUM 150, PHI 215, PHI 220, PHI 230, PHI 240, REL 110, REL 211, REL 212

**Total Semester Hour Credits for AAS Degree** **70-71**

**Emergency Management Certificate – EM Essentials - C55460A**

		Hrs				Credits
		Class	Lab	Clin	Work Exp	
EPT 140	Emergency Management	3	0	0	0	3
EPT 120	Sociology of Disaster	3	0	0	0	3
EPT 130	Mitigation & Preparedness	3	0	0	0	3
EPT 210	Response & Recovery	3	0	0	0	3
<b>Total Semester Hour for Certificate</b>						
<b>12</b>						

## Emergency Management Certificate – Fire Management Concentration - C55460B

		Class	Lab	Hrs		Credits
				Clin	Work Exp	
EPT 140	Emergency Management	3	0	0	0	3
EPT 120	Sociology of Disaster	3	0	0	0	3
FIP 120	Introduction to Fire Protection	3	0	0	0	3
FIP 124	Fire Protection & Public Education	3	0	0	0	3
<b>Total Semester Hour for Certificate</b>						<b>12</b>

## Emergency Management Certificate – Business Concentration

		Class	Lab	Hrs		Credits
				Clin	Work Exp	
EPT 140	Emergency Management	3	0	0	0	3
BUS 110	Introduction to Business	3	0	0	0	3
CIS 110	Introduction to Computers	2	2	0	0	3
FIP 240	Fire Service Supervision	3	0	0	0	3
<b>Total Semester Hour for Certificate</b>						<b>12</b>

## Emergency Management Certificate – EM and Fire Basics C-55460B

		Class	Lab	Hrs		Credits
				Clin	Work Exp	
EPT 140	Emergency Management	3	0	0	0	3
FIP 120	Introduction to Fire Protection	3	0	0	0	3
FIP 124	Fire Protection & Public Education	3	0	0	0	3
EPT 120	Sociology of Disaster	3	0	0	0	3
<b>Total Semester Hour for Certificate</b>						<b>12</b>

## Emergency Medical Science – A45340

*(Pending approval by the Southern Association of Colleges and Schools Commission on Colleges)*

The Emergency Medical Science curriculum provides individuals with the knowledge, skills, and attributes to provide advanced emergency medical care as a paramedic for critical and emergent patients who access the emergency medical system and prepares graduates to enter the workforce.

Students will gain complex knowledge, competency, and experience while employing evidence based practice under medical oversight, and serve as a link from the scene into the healthcare system.

Graduates of this program may be eligible to take state and/or national certification examinations. Employment opportunities include providers of emergency medical services, fire departments, rescue agencies, hospital specialty areas, industry, educational and government agencies.

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education</b>						
COM 231	Public Speaking	3	0	0	0	3
ENG 111	Writing and Inquiry	3	0	0	0	3
ENG 112	Writing & Research in the Disciplines	3	0	0	0	3
MAT 143	Quantitative Literacy	2	2	0	0	3
PHI 240	Introduction to Ethics	3	0	0	0	3
PSY 150	General Psychology	3	0	0	0	3
						<b>18</b>
<b>Major Core Courses</b>						
EMS 110	Emergency Medical Technician	6	6	0	0	8
BIO 163	Basic Anatomy & Physiology	4	2	0	0	5
MED 120	Survey of Medical Terminology	2	0	0	0	2
						<b>15</b>
<b>Other Major Courses</b>						
EMS 122	EMS Practicum I	0	0	3	0	1
EMS 130	Pharmacology	3	3	0	0	4
EMS 131	Advanced Airway Management	1	2	0	0	2
EMS 160	Cardiology I	1	3	0	0	2
EMS 220	Cardiology II	2	3	0	0	3
EMS 221	EMS Clinical Practicum II	0	0	6	0	2
EMS 231	EMS Clinical Practicum III	0	0	9	0	3
EMS 240	Patients with Special Challenges	1	2	0	0	2
EMS 241	EMS Clinical Practicum IV	0	0	12	0	4
EMS 250	Medical Emergencies	3	3	0	0	4
EMS 260	Trauma Emergencies	1	3	0	0	2
EMS 270	Lifespan Emergencies	2	3	0	0	3
EMS 285	EMS Capstone	1	3	0	0	2
						<b>34</b>
<b>Other Major Courses</b>						
EMS 140	Rescue Scene Management	1	3	0		2
EMS 235	EMS Management	2	0	0		2
						<b>4</b>
<b>Other Required Courses</b>						
ACA 122	College Transfer Success	0	2	0	0	1
						<b>1</b>
<b>Total Hours for Graduation</b>						<b>72</b>

## General Occupational Technology – A55280

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

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

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

### General Education

Students must take a minimum of 15 semester hours including at least one course from each of the following areas: humanities/fine arts, social/behavioral sciences, natural sciences/mathematics, and a minimum of 6 semester hours of communications.

### Major Courses

Select 18 SHC from a combination of core courses for curriculums approved to be offered by the College. Select from prefixes for major courses for curriculums approved to be offered by the College

<b>Minimum General Education Hours</b>	<b>15</b>
<b>Minimum Major Course Hours</b>	<b>49</b>
<b>Total Semester Hour Credits for AAS Degree</b>	<b>64-76</b>

A student may elect to take up to 8 semester credit hours of Co-op education with advisor approval.

## Hospitality Management – A25110

The Hospitality Management curriculum prepares individuals to understand and apply the administrative and practical skills needed for supervisory and managerial positions in hotels, motels, resorts, inns, restaurants, institutions, and clubs.

Course work includes guest services, leadership, management, restaurant operations, lodging operations, marketing, sanitation, food preparation, food and beverage management and other critical areas.

Graduates should qualify for management or entry-level supervisory positions in food and lodging operations, including restaurants, foodservice, beverage service, catering, front office, reservations and housekeeping. Opportunities are also available in product services, and technology support and sales.



Note: Students must pass CUL 110 with a grade of C or better and must pass ServSafe food safety exam with a 75% or better during the course in order to receive credit toward graduation and satisfy the CUL 110 prerequisite for culinary courses.

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education</b>						
COM 110	Introduction to Communication	3	0	0	0	3
ENG 111	Writing and Inquiry	3	0	0	0	3
HUM/FA	Humanities/Fine Arts Elective	3	0	0	0	3
MAT 143	Quantitative Literacy	2	2	0	0	3
PSY 150	General Psychology	3	0	0	0	3
						<b>15</b>
<b>Major Core Courses</b>						
ACC 120	Principles of Financial Accounting	3	2	0	0	4
CUL 110	Sanitation & Safety	2	0	0	0	2
HRM 110	Introduction to Hospitality & Tourism	3	0	0	0	3
HRM 140	Legal Issues - Hospitality	3	0	0	0	3
HRM 220	Cost Control - Food and Beverage	3	0	0	0	3
HRM 240	Marketing for Hospitality	3	0	0	0	3
HRM 245	Human Resource Mgmt. - Hospitality	3	0	0	0	3
HRM 280	Management Problems - Hospitality	3	0	0	0	3
WBL 111	Work Based Learning I	0	0	0	10	1
WBL 121	Work Based Learning II	0	0	0	10	1
						<b>26</b>
<b>Other Major Courses</b>						
CIS 110	Introduction to Computers	2	2	0	0	3
CUL 130	Menu Design	2	0	0	0	2
CUL 135	Food and Beverage Service	2	0	0	0	2
CUL 135A	Food and Beverage Service Lab	0	2	0	0	1
CUL 140	Culinary Skills I	2	6	0	0	5
	or					
CUL 142	Fundamentals of Food	2	6	0	0	5
HRM 120	Front Office Procedures	3	0	0	0	3
HRM 225	Beverage Management	3	0	0	0	3
Special Topics Elective (Select 2 Courses - <b>6 Credits Totals</b> ):						
CUL 112, CUL 120/120A, CUL 160, ETR 210, HRM 130, HRM 210						
						<b>25</b>
<b>Other Required Courses</b>						
ACA 122	College Transfer Success	0	2	0	0	1
						<b>1</b>
<b>Total Semester Hour Credits for AAS Degree</b>						<b>67</b>

## Hospitality Management – D25110

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education</b>						
COM 110	Introduction to Communication	3	0	0	0	3
ENG 111	Writing and Inquiry	3	0	0	0	3
						<b>6</b>
<b>Major Core Courses</b>						
CUL 110	Sanitation & Safety	2	0	0	0	2
HRM 110	Introduction to Hospitality & Tourism	3	0	0	0	3
HRM 140	Legal Issues - Hospitality	3	0	0	0	3
HRM 220	Cost Control - Food and Beverage	3	0	0	0	3
HRM 240	Marketing for Hospitality	3	0	0	0	3
HRM 245	Human Resource Mgmt. - Hospitality	3	0	0	0	3
HRM 280	Management Problems - Hospitality	3	0	0	0	3
						<b>20</b>
<b>Other Major Courses</b>						
CUL 135	Food and Beverage Service	2	0	0	0	2
CUL 135A	Food and Beverage Service Lab	0	2	0	0	1
HRM 120	Front Office Procedures	3	0	0	0	3
HRM 130	Bed and Breakfast Management	3	0	0	0	3
HRM 210	Meeting and Event Planning	3	0	0	0	3
HRM 225	Beverage Management	3	0	0	0	3
						<b>15</b>
<b>Total Hours for Graduation</b>						<b>41</b>

## Lodging Management Certificate – C25110A

		Class	Lab	Hrs Clin	Work Exp	Credits
HRM 110	Introduction to Hospitality & Tourism	3	0	0	0	3
HRM 120	Front Office Procedures	3	0	0	0	3
HRM 140	Legal Issues - Hospitality	3	0	0	0	3
HRM 240	Marketing for Hospitality	3	0	0	0	3
HRM 245	Human Resource Mgmt. - Hospitality	3	0	0	0	3
<b>Total Semester Hour Credits for Certificate</b>						<b>15</b>

## Restaurant Management Certificate – C25110B

		Class	Lab	Hrs Clin	Work Exp	Credits
CUL 110	Sanitation and Safety	2	0	0	0	2
CUL 135	Food and Beverage Service	2	0	0	0	2
CUL 135A	Food and Beverage Service Lab	0	2	0	0	1
HRM 225	Beverage Management	3	0	0	0	3
HRM 245	Human Resource Mgmt. - Hospitality	3	0	0	0	3

HRM 240	Marketing for Hospitality	3	0	0	0	3
<b>Total Semester Hour Credits for Certificate</b>						<b>14</b>

### Catering Management Certificate – C25110C

		Class	Lab	Hrs		Credits
				Clin	Work Exp	
CUL 110	Sanitation and Safety	2	0	0	0	2
CUL 130	Menu Design	2	0	0	0	2
CUL 135	Food and Beverage Service	2	0	0	0	2
CUL 135A	Food and Beverage Service Lab	0	2	0	0	1
CUL 140	Culinary Skills I	2	6	0	0	5
	or					
CUL 142	Fundamentals of Food	2	6	0	0	5
HRM 245	Human Resource Mgmt. - Hospitality	3	0	0	0	3
<b>Total Semester Hour Credits for Certificate</b>						<b>15</b>

### Bed and Breakfast Management Certificate – C25110D

		Class	Lab	Hrs		Credits
				Clin	Work Exp	
CUL 110	Sanitation and Safety	2	0	0	0	2
CUL 140	Culinary Skills I	2	6	0	0	5
	or					
CUL 142	Fundamentals of Food	2	6	0	0	5
ETR 210	Introduction to Entrepreneurship	3	0	0	0	3
HRM 120	Front Office Procedures	3	0	0	0	3
HRM 130	Bed and Breakfast Management	3	0	0	0	3
<b>Total Hours for Graduation</b>						<b>16</b>

### Event Planning Certificate – C25110E

		Class	Lab	Hrs		Credits
				Clin	Work Exp	
HRM 140	Legal Issues - Hospitality	3	0	0	0	3
HRM 210	Meeting and Event Planning	3	0	0	0	3
HRM 225	Beverage Management	3	0	0	0	3
HRM 240	Marketing for Hospitality	3	0	0	0	3
HRM 245	Human Resource Mgmt. - Hospitality	3	0	0	0	3
<b>Total Hours for Graduation</b>						<b>15</b>

## Human Services Technology – A45380

The Human Services Technology curriculum prepares students for entry-level positions in institutions and agencies which provide social, community, and educational services. Along with core courses, students take courses which prepare them for specialization in specific human service areas.

Students will take courses from a variety of disciplines. Emphasis in core courses is placed on development of relevant knowledge, skills, and attitudes in human services. Fieldwork experience will provide opportunities for application of knowledge and skills learned in the classroom.

Graduates should qualify for positions in mental health, child care, family services, social services, rehabilitation, correction, and educational agencies. Graduates choosing to continue their education may select from a variety of transfer programs at senior public and private institutions.

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education</b>						
COM 110	Introduction to Communication	3	0	0	0	3
	or					
COM 120	Intro to Interpersonal Communication	3	0	0	0	3
	or					
COM 140	Intro to Intercultural Communication	3	0	0	0	3
	or					
COM 231	Public Speaking	3	0	0	0	3
ENG 111	Writing and Inquiry	3	0	0	0	3
HUM/FA	Humanities/Fine Art Elective	3	0	0	0	3
MAT 143	Quantitative Literacy	2	2	0	0	3
SOC 213	Sociology of the Family	3	0	0	0	3
						<b>15</b>
<b>Major Core Courses</b>						
HSE 110	Intro. to Human Services	2	2	0	0	3
HSE 112	Group Process I	1	2	0	0	2
HSE 123	Interviewing Techniques	2	2	0	0	3
HSE 125	Counseling	2	2	0	0	3
HSE 210	Human Services Issues	2	0	0	0	2
HSE 225	Crisis Intervention	3	0	0	0	3
PSY 150	General Psychology	3	0	0	0	3
PSY 241	Developmental Psychology	3	0	0	0	3
SOC 210	Introduction of Sociology	3	0	0	0	3
						<b>25</b>
<b>Other Major Courses</b>						
CIS 110	Introduction to Computers	2	2	0	0	3
GRO 120	Gerontology	3	0	0	0	3

BIO 110	Principles of Biology or	3	3	0	0	4
BIO 111	General Biology I or	3	3	0	0	4
HEA 110	Personal Health/Wellness	3	0	0	0	3
HSE 220	Case Management	2	2	0	0	3
PSY 281	Abnormal Psychology	3	0	0	0	3
SAB 110	Substance Abuse Overview	3	0	0	0	3
SWK 110	Introduction to Social Work	3	0	0	0	3
SWK 113	Working With Diversity	3	0	0	0	3

**24****Other Required Courses**

ACA 122	College Transfer Success	0	2	0	0	1
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**1****Total Semester Hour Credits for AAS Degree****65-66****Human Services Technology/Gerontology Concentration  
– A4538B**

The Human Services Technology/Gerontology concentration prepares students to specialize in direct service delivery work to older adults and their families. The curriculum provides both theoretical and applied models for understanding issues of aging.

Course work includes physical, psychological, and social aspects of the aging process; as well as health, wellness, nutrition, diet, exercise, and well-being. Fieldwork experiences provide opportunities to work in a variety of public and private agencies.

Graduates should qualify for employment in nursing and rest homes, specialized adult care services, respite services, and other programs servicing older adults and their families. Graduates choosing to continue their education may select from a variety of programs at senior institutions.

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education</b>						
COM 110	Introduction to Communication or	3	0	0	0	3
COM 120	Intro to Interpersonal Communication or	3	0	0	0	3
COM 140	Intro to Intercultural Communication or	3	0	0	0	3
COM 231	Public Speaking	3	0	0	0	3
ENG 111	Writing and Inquiry	3	0	0	0	3
HUM/FA	Humanities/Fine Art Elective	3	0	0	0	3
MAT 143	Quantitative Literacy	2	2	0	0	3
SOC 213	Sociology of the Family	3	0	0	0	3

**15**

**Major Core Courses**

HSE 110	Intro. to Human Services	2	2	0	0	3
HSE 112	Group Process I	1	2	0	0	2
HSE 123	Interviewing Techniques	2	2	0	0	3
HSE 125	Counseling	2	2	0	0	3
HSE 210	Human Services Issues	2	0	0	0	2
HSE 225	Crisis Intervention	3	0	0	0	3
PSY 150	General Psychology	3	0	0	0	3
PSY 241	Developmental Psychology	3	0	0	0	3
SOC 210	Introduction of Sociology	3	0	0	0	3

**25****Other Major Courses**

CIS 110	Introduction to Computers	2	2	0	0	3
GRO 120	Gerontology	3	0	0	0	3
GRO 220	Psychosocial Aspects of Aging	3	0	0	0	3
GRO 230	Health, Wellness, Nutrition	3	2	0	0	4
HSE 220	Case Management	2	2	0	0	3
SAB 110	Substance Abuse Overview	3	0	0	0	3
SWK 110	Introduction to Social Work	3	0	0	0	3
SWK 113	Working With Diversity	3	0	0	0	3
WBL 111	Work Based Learning I	1	0	0	0	1
WBL 115	Work Based Learning Seminar I	1	0	0	0	1

**27****Other Required Courses**

ACA 122	College Transfer Success	0	2	0	0	1
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**1****Total Semester Hour Credits for AAS Degree****68****Case Management Certificate – C45380**

HSE 110	Intro. to Human Services	2	2	0	0	3
HSE 123	Interviewing Techniques	2	2	0	0	3
HSE 125	Counseling	2	2	0	0	3
HSE 220	Case Management	2	2	0	0	3
PSY 150	General Psychology	3	0	0	0	3

**Total Semester Hours for Certificate****15**

## Industrial Systems Technology – A50240

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 skill as life-long learners.

				Hrs		Work	Credits
		Class	Lab	Clin	Exp		
<b>General Education</b>							
COM 110	Introduction to Communication	3	0	0	0		3
	or						
COM 231	Public Speaking	3	0	0	0		3
ENG 110	Freshman Composition	3	0	0	0		3
	or						
ENG 111	Writing and Inquiry	3	0	0	0		3
HUM/FA	Humanities/Fine Arts Core Elective	3	0	0	0		3
MAT 121	Algebra/Trigonometry I	2	2	0	0		3
	or						
MAT 171	Precalculus Algebra	3	2	0	0		4
SOC/BEH	Social/Behavioral Sci. Core Elective	3	0	0	0		3
							<b>15-16</b>
<b>Technical Core Courses</b>							
BPR 111	Print Reading	1	2	0	0		2
ELC 111	Intro to Electricity	2	2	0	0		3
	or						
ELC 131	Circuit Analysis I	3	3	0	0		4
HYD 110	Hydraulics/Pneumatics	2	3	0	0		3
ISC 112	Industrial Safety	2	0	0	0		2
MAC 141	Machining Applications I	2	6	0	0		4
MNT 110	Intro to Maint Procedures	1	3	0	0		2
WLD 112	Basic Welding Processes	1	3	0	0		2
							<b>18-19</b>
<b>Required Subject Area Courses</b>							
ELC 113	Residential Wiring	2	6	0	0		4
ELC 117	Motors & Controls	2	6	0	0		4

ELC 115	Industrial Wiring	2	6	0	0	4
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**Other Major Courses**

AHR 110	Introduction to Refrigeration	2	6	0	0	5
AHR 112	Heating Technology	2	4	0	0	4
ATR 280	Robotic Fundamentals	3	2	0	0	4
DFT 151	CAD I	2	3	0	0	3
EGR 125	Appl Software for Tech	1	2	0	0	2
ELN 260	Prog Logic Controllers	3	3	0	0	4

**22****Other Major Elective Courses (Select 4 hours from the following courses)**

ATR 281	Automated Manufacturing	3	2	0	0	4
ELC 131A	Circuit Analysis I Lab	0	3	0	0	1
ELC 228	PLC Applications	2	6	0	0	4
MAC 121	Intro. to CNC	2	0	0	0	2
MAC 141A	Machining Applications Lab	0	6	0	0	2

**4-5****Other Required Courses**

ACA 122	College Transfer Success	0	2	0	0	1
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**1****Total Hours for Graduation****72-74****Industrial Systems Technology Diploma – D50240**

			Hrs	Work		
		Class	Lab	Clin	Exp	Credits

**General Education**

ENG 110	Freshman Composition	3	0	0		3
	or					
ENG 111	Writing and Inquiry	3	0	0		3
MAT 110	Mathematical Measurement	2	2	0		3
	or					
MAT 121	Algebra/Trigonometry I	2	2	0		3

**6****Major Core Courses**

BPR 111	Blueprint Reading	1	2	0		2
ELC 111	Intro. to Electricity	2	2	0		3
	or					
ELC 131	Circuit Analysis I	3	3	0		4
HYD 110	Hydraulics/Pneumatics I	2	3	0		3
ISC 112	Industrial Safety	2	0	0		2
MAC 141	Machining Applications I	2	6	0		4
MNT 110	Intro. to Maint. Procedures	1	3	0		2
WLD 112	Basic Welding Processes	1	3	0		2

**18-19**



**Other Major Courses (Choose 12-14 hours from the following courses:)**

AHR 110	Intro. to Refrigeration	2	6	0	5
AHR 112	Heating Technology	2	4	0	4
ATR 280	Robotic Fundamentals	3	2	0	4
DFT 151	CAD I	2	3	0	3
EGR 125	Appl Software for Tech	1	2	0	2
ELC 113	Residential Wiring	2	6	0	4
ELC 115	Industrial Wiring	2	6	0	4
ELC 117	Motors and Controls	2	6	0	4
ELC 131A	DC/AC Circuit Analysis Lab	0	3	0	1
ELN 260	Prog Logic Controllers	3	3	0	4

**12-14****Total Hours for Graduation****36-39****Industrial Systems Technology - HVAC Certificate – C50240A**

		Hrs		Work	Credits
Class	Lab	Clin	Exp		
<b>Technical Core Courses</b>					
MNT 110	Intro. to Maint. Procedures	1	3	0	2
					<b>2</b>

**Required Subject Area Courses**

ELC 113	Residential Wiring	2	6	0	4
					<b>4</b>

**Other Major Courses**

AHR 110	Intro. to Refrigeration	2	6	0	5
AHR 112	Heating Technology	2	4	0	4
					<b>9</b>

**Total Hours for Graduation****15****Industrial Systems Technology - Mechanical Certificate – C50240B**

		Class	Lab	Clin / Exp	Credits
<b>Technical Core Courses</b>					
BPR 111	Blueprint Reading	1	2	0	2
HYD 110	Hydraulic/Pneumatics I	2	3	0	3
ISC 112	Industrial Safety	2	0	0	2
MAC 141	Machining Applications I	2	6	0	4
MNT 110	Intro. to Maint. Procedures	1	3	0	2
WLD 112	Basic Welding Processes	1	3	0	2

**Total Hours for Graduation****15**

## Industrial Systems Technology - Machining Maintenance Certificate – C50240C

		Class	Lab	Clin / Exp	Credits	
<b>Technical Core Courses</b>						
ELC 131	Circuit Analysis	3	3	0	0	4
MAC 141	Machining Applications I	2	6	0	0	4
					<b>8</b>	
<b>Other Major Courses</b>						
EGR 125	Appl Software for Tech	1	2	0	0	2
					<b>2</b>	
<b>Other Required Courses</b>						
ELC 131A	Circuit Analysis I Lab	0	3	0	0	1
MAC 141A	Machining Applications I Lab	0	6	0	0	2
					<b>3</b>	
<b>Total Hours for Graduation</b>					<b>13</b>	

## Information Technology

The Information Technology (IT) curriculum prepares graduates for employment in the technology sector as designers, testers, support technicians, system administrators, developers, or programmers who use computer software and/or hardware to design, process, implement and manage information systems in specialties such as database services, security, business intelligence, healthcare informatics and others depending on the technical path selected within this curriculum. Course work includes development of a student's ability to create, store, communicate, exchange and use information to solve technical issues related to information support and services, interactive media, network systems, programming and software development, information security and other emerging technologies based on the selected area of study. Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies which rely on computer systems to design and manage information. The program will incorporate the competencies of industry-recognized certification exams.

## Information Technology: Information Systems - A25590A

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education Courses</b>						
COM	Elective	3	0	0	0	3
ENG 111	Writing and Inquiry	3	0	0	0	3
HUM/FA	Humanities/Fine Arts Elective	3	0	0	0	3
MAT	Elective	2	2	0	0	3
SOC/BEH	Elective	3	0	0	0	3
					<b>15</b>	
<b>Technical Core Courses</b>						
CTI 110	Web, Pgm & DB Foundation	2	3	0		3

CTI 120	Network & Sec Foundation	2	2	0	3
CTS 115	Info Sys Business Concept	3	0	0	3
CTS 120	Hardware/Software Support	2	3	0	3
					<b>12</b>

**Required Subject Area Courses**

CTS 220	Adv Hard/Software Support	2	3	0	3
NOS 120	Linux/UNIX Single User	2	2	0	3
NOS 130	Windows Single User	2	2	0	3
NOS 230	Windows Admin I	2	2	0	3
					<b>12</b>

**Other Major Courses**

CIS 110	Introduction to Computers	2	2	0	3
CSC 151	Java Programming	2	3	0	3
CTS 130	Spreadsheets	2	2	0	3
CTI 141	Cloud & Storage Concepts	1	4	0	3
CTI 150	Mobile Computing Devices	2	2	0	3
CTS 287	Emerging Technologies	3	0	0	3
CTS 289	System Support Project	1	4	0	3
DBA 110	Database Concepts	2	3	0	3
DBA 115	Database Applications	2	2	0	3
WEB 140	Web Development Tools	2	2	0	3
WBL 111	Work-Based Learning I	0	0	10	1
					<b>31</b>

**Other Required Courses**

ACA 122	College Transfer Success	0	2	0	0	1
					<b>1</b>	

**Total Semester Hour Credits for Diploma** **71**

**Software Applications Certificate - C25590AA**

		Hrs		Work		Credits
		Class	Lab	Clin	Exp	
CIS 110	Introduction to Computers	2	2	0		3
CTI 110	Web, Pgm & DB Foundation	2	3	0		3
CTI 120	Network & Sec Foundation	2	2	0		3
DBA 110	Database Concepts	2	3	0		3
CTS 130	Spreadsheets	2	2	0		3

**Total Hours for Graduation** **15**

**Vendor Certifications:** Course work in this certificate program will prepare students to take the following certification exams:

- Internet and Computing Core (IC<sub>3</sub>) Certification
- Microsoft Office Specialist (MOS) – Access
- Microsoft Office Specialist (MOS) – Excel

**Helpdesk Support Certificate - C25590AB**

		Class	Lab	Hrs		Credits
				Clin	Work Exp	
CTI 120	Network & Sec Foundation	2	2	0		3
CTS 120	Hardware/Software Support	2	3	0		3
NOS 130	Windows Single User	2	2	0		3
CTS 220	Adv Hard/Software Support	2	3	0		3
NOS 230	Windows Admin I	2	2	0		3
CTS 150	Mobile Computing Devices	2	2	0		3
	or					
CTI 141	Cloud & Storage Concepts	1	4	0		3
<b>Total Semester Hours</b>						<b>18</b>

**Vendor Certifications:** Course work in this certificate program will prepare students to take the following certification exams:

- Internet and Computing Core (IC<sub>3</sub>) Certification
- CompTIA A+ Certification
- Microsoft Certified Technology Specialist (MCTS) – Windows Client Certification
- Microsoft Certified Solutions Associate (MCSA) – Windows Server Certification

**Information Technology: Network Management - A25590B**

		Class	Lab	Hrs		Credits
				Clin	Work Exp	
<b>General Education Courses</b>						
COM	Elective	3	0	0	0	3
ENG 111	Writing and Inquiry	3	0	0	0	3
HUM/FA	Humanities/Fine Arts Elective	3	0	0	0	3
MAT	Elective	2	2	0	0	3
SOC/BEH	Elective	3	0	0	0	3
						<b>15</b>

**Technical Core Courses**

CTI 110	Web, Pgm & DB Foundation	2	3	0		3
CTI 120	Network & Sec Foundation	2	2	0		3
CTS 115	Info Sys Business Concept	3	0	0		3
CTS 120	Hardware/Software Support	2	3	0		3
						<b>12</b>

**Required Subject Area Courses**

NET 125	Introduction to Networks	1	4	0		3
NET 126	Routing Basics	1	4	0		3
						<b>6</b>

**Other Major Courses**

CTI 141	Cloud & Storage Concepts	1	4	0		3
CTI 175	Intro to Wireless Technology	2	2	0		3
CTI 240	Virtualization Admin I	1	4	0		3

CTS 220	Adv Hard/Software Support	2	3	0	3
CTS 287	Emerging Technologies	3	0	0	3
CTS 289	System Support Project	1	4	0	3
DBA 110	Database Concepts	2	3	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
NOS 230	Windows Admin I	2	2	0	3
WBL 111	Work-Based Learning I	0	0	10	1

**37****Other Required Courses**

ACA 122	College Transfer Success	0	2	0	0	1
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**1****Total Semester Hours****71****Network Technician Certificate - C25590BA**

		Hrs		Work		
		Class	Lab	Clin	Exp	Credits
CTI 120	Network & Sec Foundation	2	2	0		3
NET 125	Introduction to Networks	1	4	0		3
NOS 130	Windows Single User	2	2	0		3
NET 126	Routing Basics	1	4	0		3
NOS 230	Windows Admin I	2	2	0		3
CTI 175	Intro to Wireless Technology	2	2	0		3

**18**

**Vendor Certifications:** Course work in this certificate program will prepare students to take the following certification exams:

- Cisco Certified Entry Networking Technician (CCENT) Certification
- Microsoft Certified Technology Specialist (MCTS) – Windows Client Certification
- Microsoft Certified Solutions Associate (MCSA) – Windows Server Certification

**Network Administration Certificate - C25590BB**

		Hrs		Work		
		Class	Lab	Clin	Exp	Credits
NET 125	Introduction to Networks	1	4	0		3
NET 126	Routing Basics	1	4	0		3
NET 225	Routing and Switching I	1	4	0		3
NET 226	Routing and Switching II	1	4	0		3

**12**

**Vendor Certifications:** Course work in this certificate program will prepare students to take the following certification exams:

- Cisco Certified Entry Networking Technician (CCENT) Certification
- Cisco Certified Network Associate (CCNA) Certification

## Virtualization and Cloud Computing - C25590BC

		Hrs			Work	Credits
		Class	Lab	Clin	Exp	
CTI 120	Network & Sec Foundation	2	2	0		3
NOS 130	Windows Single User	2	2	0		3
NOS 230	Windows Admin I	2	2	0		3
CTI 141	Cloud & Storage Concepts	1	4	0		3
CTI 240	Virtualization Admin I	1	4	0		3

**15**

**Vendor Certifications:** Course work in this certificate program will prepare students to take the following certification exams:

- Microsoft Certified Technology Specialist (MCTS) – Windows Client Certification
- Microsoft Certified Solutions Associate (MCSA) – Windows Server Certification
- VMware Certified Associate (VCP)

## Information Technologies: System Security – A25590C

		Hrs			Work	Credits
		Class	Lab	Clin	Exp	
<b>General Education Courses</b>						
COM	Elective	3	0	0	0	3
ENG 111	Writing and Inquiry	3	0	0	0	3
HUM/FA	Humanities/Fine Arts Elective	3	0	0	0	3
MAT	Elective	2	2	0	0	3
SOC/BEH	Elective	3	0	0	0	3

**15**

### Technical Core Courses

CTI 110	Web, Pgm & DB Foundation	2	3	0		3
CTI 120	Network & Sec Foundation	2	2	0		3
CTS 115	Info Sys Business Concept	3	0	0		3
CTS 120	Hardware/Software Support	2	3	0		3

**12**

### Required Subject Area Courses

SEC 110	Security Concepts	2	2	0		3
SEC 150	Secure Communications	2	2	0		3

**6**

### Other Major Courses

DBA 110	Database Concepts	2	3	0		3
NET 125	Introduction to Networks	1	4	0		3
NET 126	Routing Basics	1	4	0		3
NOS 120	Linux/UNIX Single User	2	2	0		3
NOS 130	Windows Single User	2	2	0		3
NOS 230	Windows Admin I	2	2	0		3
CTI 141	Cloud & Storage Concepts	1	4	0		3
CTI 175	Intro to Wireless Technology	2	2	0		3

CTI 240	Virtualization Admin I	1	4	0	3
CTS 287	Emerging Technologies	3	0	0	3
CTS 289	System Support Project	1	4	0	3
SEC 180	Info Assurance Principles	2	2	0	3
SEC 210	Intusion Detection	2	2	0	3
WBL 111	Work-Based Learning I	0	0	10	1
					<b>40</b>

**Other Required Courses**

ACA 122	College Transfer Success	0	2	0	0	1
					<b>1</b>	

**Total Semester Hours** **74**

**Cybersecurity Certificate - C25590CA**

		Class	Lab	Hrs Clin	Work Exp	Credits
CTI 120	Network & Sec Foundation	2	2	0		3
SEC 110	Security Concepts	2	2	0		3
SEC 150	Secure Communications	2	2	0		3
SEC 210	Intusion Detection	2	2	0		3
SEC 180	Info Assurance Principles	2	2	0		3

**Total Hours for Graduation** **15**

**Information Technology: Web Design and Administration -A25590D**

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education Courses</b>						
COM	Elective	3	0	0	0	3
ENG 111	Writing and Inquiry	3	0	0	0	3
HUM/FA	Humanities/Fine Arts Elective	3	0	0	0	3
MAT	Elective	2	2	0	0	3
SOC/BEH	Elective	3	0	0	0	3
						<b>15</b>

**Technical Core Courses**

CIS 110	Introduction to Computers	2	2	0		3
CTI 110	Web, Pgm & DB Foundation	2	3	0		3
CTI 120	Network & Sec Foundation	2	2	0		3
CTS 115	Info Sys Business Concept	3	0	0		3
						<b>12</b>

**Required Subject Area Courses**

WEB 115	Web Markup& Scripting	2	2	0		3
WEB 210	Web Design	2	2	0		3
						<b>6</b>

**Other Major Courses**

CSC 151	Java Programming	2	3	0	3
CTI 141	Cloud & Storage Concepts	1	4	0	3
CTS 289	System Support Project	1	4	0	3
DBA 110	Database Concepts	2	3	0	3
DBA 115	Database Applications	2	2	0	3
NOS 120	Linux/UNIX Single User	2	2	0	3
NOS 130	Windows Single User	2	2	0	3
WEB 111	Intro to Web Graphics	2	2	0	3
WEB 125	Mobile Web Design	2	2	10	3
WEB 140	Web Development Tools	2	2	0	3
WEB 151	Mobile Application Dev I	2	2	0	3
WEB 250	Database Driven Websites	2	2	0	3
WBL 111	Work-Based Learning I	0	0	10	1
					<b>37</b>

**Other Required Courses**

ACA 122	College Transfer Success	0	2	0	0	1
					<b>1</b>	
<b>Total Semester Hours</b>					<b>71</b>	

**Website Design Certificate - C25590DA**

		Class	Lab	Hrs Clin	Work Exp	Credits
CTI 110	Web, Pgm & DB Foundation	2	3	0		3
CTI 120	Network & Sec Foundation	2	2	0		3
WEB 210	Web Design	2	2	0		3
WEB 111	Intro to Web Graphics	2	2	0		3
WEB 115	Web Markup & Scripting	2	2	0		3
WEB 140	Web Development Tools	2	2	0		3
<b>Total Hours for Graduation</b>					<b>18</b>	

**Vendor Certifications:** Course work in this certificate program will prepare students to take the following certification exams:

- Certified Internet Webmaster (CIW) Web Foundations Associate Certification

**Website Design Certificate - C25590DB**

		Class	Lab	Hrs Clin	Work Exp	Credits
CTI 110	Web, Pgm & DB Foundation	2	2	0		3
WEB 210	Web Design	2	2	0		3
WEB 111	Intro to Web Graphics	2	2	0		3
WEB 115	Web Markup & Scripting	2	2	0		3
<b>Total Hours for Graduation</b>					<b>12</b>	



## Information Technology: Game and Simulation Programming - A25590E

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education Courses</b>						
COM	Elective	3	0	0	0	3
ENG 111	Writing and Inquiry	3	0	0	0	3
HUM/FA	Humanities/Fine Arts Elective	3	0	0	0	3
MAT	Elective	2	2	0	0	3
SOC/BEH	Elective	3	0	0	0	3
						<b>15</b>
<b>Technical Core Courses</b>						
CIS 110	Introduction to Computers	2	2	0		3
CTI 110	Web, Pgm & DB Foundation	2	3	0		3
CTI 120	Network & Sec Foundation	2	2	0		3
CTS 115	Info Sys Business Concept	3	0	0		3
						<b>12</b>
<b>Required Subject Area Courses</b>						
CSC 151	Java Programming	2	3	0		3
SGD 111	Introduction to SGD	2	3	0		3
						<b>6</b>
<b>Other Major Courses</b>						
DBA 110	Database Concepts	2	3	0		3
NOS 130	Windows Single User	2	2	0		3
SGD 112	SGD Design	2	3	0		3
SGD 116	Graphic Design Tool	2	2	0		3
SGD 162	SGD 3D Animation	2	3	0		3
SGD 165	SGD Character Development	2	3	0		3
SGD 174	SG Level Design	2	3	0		3
SGD 212	SGD Design II	2	3	0		3
SGD 289	SGD Project	2	3	0		3
WEB 125	Mobile Web Design	2	2	10		3
WEB 151	Mobile Application Dev I	2	2	0		3
						<b>33</b>
<b>Other Required Courses</b>						
ACA 122	College Transfer Success	0	2	0	0	1
						<b>1</b>
<b>Total Hours for Graduation</b>						<b>67</b>

**Game and Simulation Programming Certificate - C25590EA**

				Hrs	Work	
		Class	Lab	Clin	Exp	Credits
SGD 111	Introduction to SGD	2	3	0		3
SGD 112	SGD Design	2	3	0		3
CTI 110	Web, Pgm & DB Foundation	2	3	0		3
SGD 116	Graphic Design Tool	2	2	0		3
SGD 165	SGD Character Development	2	3	0		3
SGD 212	SGD Design II	2	3	0		3
<b>Total Hours for Graduation</b>						<b>18</b>

**Information Technology: Healthcare Informatics - A25590F**

				Hrs	Work	
		Class	Lab	Clin	Exp	Credits
<b>General Education Courses</b>						
COM	Elective	3	0	0	0	3
ENG 111	Writing and Inquiry	3	0	0	0	3
HUM/FA	Humanities/Fine Arts Elective	3	0	0	0	3
MAT	Elective	2	2	0	0	3
SOC/BEH	Elective	3	0	0	0	3
						<b>15</b>

**Technical Core Courses**

CTI 110	Web, Pgm & DB Foundation	2	3	0		3
CTI 120	Network & Sec Foundation	2	2	0		3
CTS 115	Info Sys Business Concept	3	0	0		3
CTS 120	Hardware/Software Support	2	3	0		3
						<b>12</b>

**Required Subject Area Courses**

HBI 110	Issues and Trends in HBI	3	0	0		3
DBA 110	Database Concepts	2	3	0		3
						<b>6</b>

**Other Major Courses**

CIS 110	Introduction to Computers	2	2	0		3
CTI 141	Cloud & Storage Concepts	1	4	0		3
CTI 150	Mobile Computing Devices	2	2	0		3
CTS 220	Adv Hardware/Software Support	2	3	0		3
DBA 115	Database Applications	2	2	0		3
HBI 113	Survey of Med Insurance	3	0	0		3
HBI 250	Data Mgmt and Utilization	2	2	0		3
HMT 110	Intro to Healthcare Mgt	3	0	0		3
NOS 130	Windows Single User	2	2	0		3
NOS 230	Windows Admin I	2	2	0		3
OST 141	Med Office Terms I	3	0	0		3
OST 142	Med Office Terms II	3	0	0		3

OST 149	Medical Legal Issues	3	0	0	3
WBL 111	Work-Based Learning I	0	0	10	1
					<b>40</b>
<b>Other Required Courses</b>					
ACA 122	College Transfer Success	0	2	0	1
					<b>1</b>
<b>Total Hours for Graduation</b>					<b>74</b>

### Healthcare Informatics Certificate - C25590FA

		Class	Lab	Hrs		Credits
				Clin	Work Exp	
CTI 120	Network & Sec Foundation	2	2	0		3
DBA 115	Database Applications	2	2	0		3
HBI 110	Issues and Trends in HBI	3	0	0		3
HMT 110	Intro to Healthcare Mgt	3	0	0		3
DBA 110	Database Concepts	2	3	0		3
NOS 130	Windows Single User	2	2	0		3

**Total Hours for Graduation** **18**

### Medical Assisting – A45400

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 Assistant's Certification Examination to become Certified Medical Assistants. Employment opportunities include physicians' offices, health maintenance organizations, health departments, and hospitals.

Only letter grades of "C" or higher in non-medical assisting courses and medical assisting (MED) courses with a grade of "B" or higher will count toward completion of the Medical Assisting degree or diploma.

The Medical Assisting program has a selective admissions process. Minimum application eligibility criteria include: DMA 010 through DMA 060, eligible to enroll in ENG 111, GPA  $\geq$  2.00. Please refer to the College Catalog - Admission Requirements for detailed information.

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education Courses</b>						
COM 110	Intro. to Communications		3	0		0 3
ENG 111	Writing and Inquiry		3	0		0 3
HUM/FA	Humanities/Fine Arts Core Elective		3	0		0 3
MAT 110	Mathematical Measurements & Inquiry		2	2		0 3
PSY 150	General Psychology		3	0		0 3
						<b>15</b>

**Major Core Courses**

BIO 163	Basic Anatomy & Physiology		4	2		0 5
MED 110	Orientation to Medical Assisting		1	0		0 1
MED 130	Administrative Office Procedures I		1	2		0 2
MED 131	Administrative Office Procedures II		1	2		0 2
MED 140	Exam Room Procedures I		3	4		0 5
MED 150	Laboratory Procedures I		3	4		0 5
MED 260	MED Clinical Practicum		0	0		15 5
OST 141	Med Office Terms I		3	0		0 3
OST 142	Med Office Terms II		3	0		0 3
OST 149	Medical Legal Issues		3	0		0 3
						<b>34</b>

**Other Major Courses**

MED 240	Exam Room Procedures II		3	4	0	5
MED 262	Clinical Perspectives		1	0	0	1
MED 270	Symptomatology		2	2	0	3
MED 272	Drug Therapy		3	0	0	3
MED 274	Diet Therapy/Nutrition		3	0	0	3
	or					
OST 247	Procedure Coding and		1	2	0	2
OST 248	Diagnostic Coding		1	2	0	2
OST 148	Medical Coding, Billing, & Insurance		3	0	0	3
						<b>18-19</b>

**Other Required Courses**

ACA 122	College Transfer Success		0	2	0	1
						<b>1</b>

**Total Semester Hour Credits for AAS Degree****68-69****Medical Assisting Diploma – D45400**

		Class	Lab	Clin / Exp	Credits	
<b>General Education Courses</b>						
ENG 111	Writing and Inquiry	3	0	0	3	
PSY 150	General Psychology	3	0	0	3	
						<b>6</b>

**Major Core Courses**

BIO 163	Basic Anatomy & Physiology	4	2	0	5
MED 110	Orientation to Medical Ass	1	0	0	1
MED 130	Administrative Office Procedures I	1	2	0	2
MED 131	Administrative Office Procedures II	1	2	0	2
MED 140	Exam Room Procedures I	3	4	0	5
MED 150	Laboratory Procedures I	3	4	0	5
MED 260	MED Clinical Practicum	0	0	15	5
OST 141	Med Office Terms I	3	0	0	3
OST 142	Med Office Terms II	3	0	0	3
OST 149	Medical Legal Issues	3	0	0	3
					<b>34</b>

**Other Major Courses**

MED 262	Clinical Perspectives	1	0	0	1
					<b>1</b>

**Other Required Courses**

ACA 122	College Transfer Success	0	2	0	1
					<b>1</b>

**Total Semester Hour Credits for Diploma****42****Medical Office Administration**

The Medical Office Administration curriculum prepares individuals for employment in medical and other healthcare related offices.

Course work would 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 healthcare related organizations.

**Medical Office Administration - Patient Services Specialist – A25310A**

				Hrs	Work	
		Class	Lab	Clin	Exp	Credits
<b>General Education Courses</b>						
COM	Elective	3	0	0	0	3
ENG 111	Writing and Inquiry	3	0	0	0	3
HUM/FA	Humanities/Fine Arts Elective	3	0	0	0	3
MAT	Elective	2	2	0	0	3
SOC/BEH	Elective	3	0	0	0	3
					<b>15</b>	

**Major Core Courses**

CIS 110	Introduction to Computers	2	2	0	0	3
OST 136	Word Processing	2	2	0	0	3
OST 141	Med Office Terms I	3	0	0	0	3
OST 142	Med Office Terms II	3	0	0	0	3
OST 148	Med Ins & Billing	3	0	0	0	3
OST 149	Medical Legal Issues	3	0	0	0	3
OST 164	Office Editing	3	0	0	0	3
OST 288	Medical Office Admin Capstone	2	2	0	0	3
						<b>24</b>

**Required Major Courses**

BUS 260	Business Communication	3	0	0	0	3
OST 122	Office Computations	2	2	0	0	3
OST 263	Healthcare Customer Relations	3	0	0	0	3
OST 286	Professional Development	3	0	0	0	3
						<b>12</b>

**Other Major Courses**

DBA 110	Database Concepts	2	3	0	0	3
OST 132	Keyboard Skill Building	1	2	0	0	2
OST 134	Text Entry & Formatting	2	2	0	0	3
OST 184	Records Management	2	2	0	0	3
OST 244	Med Document Processing	2	2	0	0	3
OST 280	Electronic Health Records	2	2	0	0	3
WBL 111	Work Based Learning I	0	0	0	10	1
						<b>18</b>

**Other Required Courses**

ACA 122	College Transfer Success	0	2	0	0	1
						<b>1</b>

**Total Semester Hour Credits for AAS Degree** **70**

**Medical Office Administration Certificate – Patient Services Specialist - C25310AA**

				Hrs	Work	
		Class	Lab	Clin	Exp	Credits
CIS 110	Introduction to Computers	2	2	0	0	3
OST 122	Office Computations	2	2	0	0	3
OST 141	Med Office Terms I	3	0	0	0	3
OST 142	Med Office Terms II	3	0	0	0	3
OST 148	Med Ins & Billing	3	0	0	0	3
OST 280	Electronic Health Records	2	2	0	0	3

**Total Semester Hour Credits for Certificate** **18**

## Medical Office Administration – Medical Document Specialist Certificate C25310AB

				Hrs	Work	
		Class	Lab	Clin	Exp	Credits
OST 132	Keyboard Skill Building	1	2	0	0	2
OST 134	Text Entry & Formatting	2	2	0	0	3
OST 141	Med Office Terms I	3	0	0	0	3
OST 142	Med Office Terms II	3	0	0	0	3
OST 164	Office Editing	3	0	0	0	3
OST 244	Med Document Processing	2	2	0	0	3

**Total Semester Hour Credits for Certificate** **17**

## Medical Office Administration Certificate - C25310CH

				Hrs	Work	
		Class	Lab	Clin	Exp	Credits
OST 141	Med Office Terms I	3	0	0	0	3
OST 142	Med Office Terms II	3	0	0	0	3
OST 148	Med Ins & Billing	3	0	0	0	3
OST 149	Medical Legal Issues	3	0	0	0	3

**Total Semester Hour Credits for Certificate** **12**

## Medical Office Administration – Medical Billing and Coding Degree A25310BA

				Hrs	Work	
		Class	Lab	Clin	Exp	Credits
<b>General Education Courses</b>						
COM	Elective	3	0	0	0	3
ENG 111	Writing and Inquiry	3	0	0	0	3
HUM/FA	Humanities/Fine Arts Elective	3	0	0	0	3
MAT	Elective	2	2	0	0	3
SOC/BEH	Elective	3	0	0	0	3

**15**

### Major Core Courses

CIS 110	Introduction to Computers	2	2	0	0	3
OST 136	Word Processing	2	2	0	0	3
OST 141	Med Office Terms I	3	0	0	0	3
OST 142	Med Office Terms II	3	0	0	0	3
OST 148	Med Ins & Billing	3	0	0	0	3
OST 149	Medical Legal Issues	3	0	0	0	3
OST 164	Office Editing	3	0	0	0	3
OST 288	Medical Office Admin Capstone	2	2	0	0	3

**24**

### Required Major Courses

OST 247	Diagnostic Coding	2	2	0	0	3
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OST 248	Procedure Coding	2	2	0	0	3
OST 260	Adv Coding Methodologies	2	2	0	0	3
OST 264	Medical Auditing	2	2	0	0	3
						<b>12</b>

**Other Major Courses**

BIO 163	Basic Anatomy and Physiology	4	2	0	0	5
DBA 110	Database Concepts	2	3	0	0	3
OST 122	Office Computations	2	2	0	0	3
OST 132	Keyboard Skill Building	1	2	0	0	2
OST 244	Med Document Processing	2	2	0	0	3
OST 280	Electronic Health Records	2	2	0	0	3
OST 286	Professional Development	3	0	0	0	3
WBL 111	Work Based Learning I	0	0	0	10	1
						<b>23</b>

**Other Required Courses**

ACA 122	College Transfer Success	0	2	0	0	1
						<b>1</b>

**Total Semester Hour Credits for AAS Degree** **75**

### Medical Office Administration – Medical Billing and Coding Certificate C25310B

				Hrs	Work	
		Class	Lab	Clin	Exp	Credits
OST 141	Med Office Terms I	3	0	0	0	3
OST 142	Med Office Terms II	3	0	0	0	3
OST 148	Med Ins & Billing	3	0	0	0	3
OST 149	Medical Legal Issues	3	0	0	0	3
OST 247	Diagnostic Coding	2	2	0	0	3
OST 248	Procedure Coding	2	2	0	0	3
						<b>18</b>

### Medical Office Administration – Medical Auditor A25310C

				Hrs	Work	
		Class	Lab	Clin	Exp	Credits
<b>General Education Courses</b>						
COM	Elective	3	0	0	0	3
ENG 111	Writing and Inquiry	3	0	0	0	3
HUM/FA	Humanities/Fine Arts Elective	3	0	0	0	3
MAT	Elective	2	2	0	0	3
SOC/BEH	Elective	3	0	0	0	3
						<b>15</b>

**Major Core Courses**

CIS 110	Introduction to Computers	2	2	0	0	3
OST 136	Word Processing	2	2	0	0	3



OST 141	Med Office Terms I	3	0	0	0	3
OST 142	Med Office Terms II	3	0	0	0	3
OST 148	Med Ins & Billing	3	0	0	0	3
OST 149	Medical Legal Issues	3	0	0	0	3
OST 164	Office Editing	3	0	0	0	3
OST 288	Medical Office Admin Capstone	2	2	0	0	3
						<b>24</b>
<b>Required Major Courses</b>						
OST 247	Diagnostic Coding	2	2	0	0	3
OST 248	Procedure Coding	2	2	0	0	3
OST 264	Medical Auditing	2	2	0	0	3
OST 265	Healthcare Comp & Reg	2	2	0	0	3
						<b>12</b>
<b>Other Major Courses</b>						
BIO 163	Basic Anatomy and Physiology	4	2	0	0	5
DBA 110	Database Concepts	2	3	0	0	3
OST 132	Keyboard Skill Building	1	2	0	0	2
OST 244	Med Document Processing	2	2	0	0	3
OST 266	Adv Medical Auditing	2	2	0	0	3
OST 280	Electronic Health Records	2	2	0	0	3
OST 286	Professional Development	3	0	0	0	3
WBL 111	Work Based Learning I	0	0	0	10	1
						<b>23</b>
<b>Other Required Courses</b>						
ACA 122	College Transfer Success	0	2	0	0	1
						<b>1</b>
<b>Total Semester Hour Credits for AAS Degree</b>						<b>75</b>

## Nurse Aide Certificate – C45840

*(Pending approval by the Southern Association of Colleges and Schools Commission on Colleges)*

The Nurse Aide curriculum prepares individuals to work under the supervision of licensed nursing professionals in performing nursing care and services for persons of all ages.

Topics include growth and development, personal care, vital signs, communication, nutrition, medical asepsis, therapeutic activities, accident and fire safety, household environment and equipment management, family resources and services, and employment skills.

Upon completion, the student may be eligible for listing as a Nurse Aide I and other selected Nurse Aide registries as determined by the local program of study.

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education Courses</b>						
PSY 150	General Psychology	3	0	0	0	3
						<b>3</b>
<b>Major Core Courses</b>						
NAS 101	Nurse Aide I	3	4	3	0	6
NAS 102	Nurse Aide II	3	2	6	0	6
						<b>12</b>
<b>Other Major Courses</b>						
NAS 107	Medication Aide or	0	2	0	0	1
MED 121	Medical Terminology	3	0	0	0	3
						<b>1-3</b>

## Office Administration – Office Software Specialist - A25370A

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

Students will complete courses designed to develop proficiency in the use of integrated software, oral and written communication, analysis and coordination of office duties and systems, and other support topics. Emphasis is placed on non-technical as well as technical skills.

Graduates should qualify for employment in a variety of positions in business, government, and industry. Job classifications range from entry-level to supervisor to middle management.

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education Courses</b>						
COM	Elective	3	0	0	0	3
ENG 111	Writing and Inquiry	3	0	0	0	3
HUM/FA	Humanities/Fine Arts Elective	3	0	0	0	3
MAT	Elective	2	2	0	0	3
SOC/BEH	Elective	3	0	0	0	3
						<b>15</b>

### Major Core Courses

CIS 110	Introduction to Computers	2	2	0	0	3
OST 136	Word Processing	2	2	0	0	3
OST 164	Office Editing	3	0	0	0	3
OST 184	Records Management	2	2	0	0	3
OST 289	Administrative Office Management	2	2	0	0	3
						<b>15</b>

### Required Major Courses

CTS 130	Spreadsheet	2	2	0	0	3
DBA 110	Database Concepts	2	3	0	0	3
OST 236	Advanced Word Processing	2	2	0	0	3
						<b>9</b>

### Other Major Courses

ACC 120	Principles of Financial Accounting	3	2	0	0	4
BUS 260	Business Communication	3	0	0	0	3
CTS 115	Info Sys Business Concepts	3	0	0	0	3
OST 122	Office Computations	2	2	0	0	3
OST 132	Keyboard Skill Building	1	2	0	0	2
OST 134	Text Entry & Formatting	2	2	0	0	3
OST 138	Office Applications II	2	2	0	0	3
OST 233	Office Publications Design	2	2	0	0	3
OST 286	Professional Development	3	0	0	0	3

WBL 111	Work Based Learning I	0	0	0	10	1
						<b>28</b>
<b>Other Required Courses</b>						
ACA 122	College Transfer Success	0	2	0	0	1
						<b>1</b>
<b>Total Semester Hour Credits for AAS Degree</b>						<b>68</b>

### **Office Administration - Office Document Specialist Certificate – C25370A**

		Class	Lab	Hrs		Credits
				Clin	Exp	
CIS 110	Introduction to Computers	2	2	0	0	3
OST 132	Keyboard Skill Building	1	2	0	0	2
OST 134	Text Entry & Formatting	2	2	0	0	3
OST 136	Word Processing	2	2	0	0	3
OST 164	Office Editing	3	0	0	0	3
OST 184	Records Management	2	2	0	0	3
<b>Total Semester Hour Credits for Certificate</b>						<b>17</b>

### **Phlebotomy Certificate – C45600**

The Phlebotomy curriculum prepares individuals to obtain blood and other specimens for the purpose of laboratory analysis.

Course work includes proper specimen collection and handling, communication skills, and maintaining patient data.

Graduates may qualify for employment in hospitals, clinics, physician's offices, and other healthcare settings and may be eligible to take the national certification examination for phlebotomy technicians.

Only letter grades of "C" or higher in non-phlebotomy courses and phlebotomy (PBT) courses with a grade of "B" or higher will count toward completion of the Phlebotomy certificate.

The Phlebotomy program has limited seats each semester and a separate admissions process. Please refer to the College Catalog - Admission Requirements for more detailed information.

		Class	Lab	Clin / Exp	Credits
PBT100	Phlebotomy Technology	5	2	0	6
PBT101	Phlebotomy Practicum	0	0	9	3
PSY 118	Interpersonal Psychology	3	0	0	3
<b>Total Hours for Graduation</b>					<b>12</b>

## Physical Therapist Assistant – A45640

The Physical Therapist Assistant curriculum prepares graduates to work in direct patient care settings under supervision of physical therapists. Assistants work to improve or restore function by alleviation or prevention of physical impairment and perform other essential activities in a physical therapy department.

Course work includes normal human anatomy and physiology, the consequences of disease or injury, and physical therapy treatment of a variety of patient conditions affecting humans throughout the lifespan.

Graduates may be eligible to take the licensure examination administered by the NC Board of Physical Therapy Examiners. Employment is available in general hospitals, rehabilitation centers, extended care facilities, specialty hospitals, home health agencies, private clinics and public school systems.

Only letter grades of "C" or higher in non-PTA courses and PTA courses with a grade of "B" or higher will count toward completion of the Physical Therapist Assistant degree.

The PTA program has a selective admissions process. Minimum application eligibility criteria include: eligible to enroll in MAT 171 and ENG 111, GPA  $\geq 2.00$ . Please refer to the College Catalog - Admission Requirements for detailed information.

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education</b>						
COM 231	Public Speaking	3	0	0		3
ENG 111	Writing and Inquiry	3	0	0		3
MAT 171	Precalculus Algebra	3	2	0		4
PSY 150	General Psychology	3	0	0		3
HUM/FA	Humanities/Fine Arts Elective	3	0	0		3
						<b>16</b>
<b>Major Core Courses</b>						
BIO 168	Anatomy and Physiology I	3	3	0		4
BIO 169	Anatomy and Physiology II	3	3	0		4
PTA 110	Introduction to Phy. Therapy	2	3	0		3
PTA 125	Gross & Functional Anatomy	3	6	0		5
PTA 135	Pathology	4	0	0		4
PTA 145	Therapeutic Procedures	2	6	0		4
PTA 155	PTA Clinical I	0	0	6		2
PTA 185	PTA Clinical II	0	0	9		3
PTA 212	Health Care Resources	2	0	0		2
PTA 215	Therapeutic Exercise	2	3	0		3
PTA 222	Professional Interactions	2	0	0		2

PTA 225	Introduction to Rehabilitation	3	3	0	4
PTA 235	Neurological Rehabilitation	3	6	0	5
PTA 245	PTA Clinical III	0	0	12	4
PTA 255	PTA Clinical IV	0	0	12	4
					<b>53</b>

**Other Major Courses**

CIS 110	Introduction to Computers	2	2	0	3
					<b>3</b>

**Other Required Courses**

ACA 122	College Transfer Success	0	2	0	1
					<b>4</b>

**Total Hours for Graduation****73****Practical Nursing Diploma – D45660**

The Practical Nursing curriculum prepares individuals with the knowledge and skills to provide nursing care to children and adults. Students will participate in assessment, planning, implementing, and evaluating nursing care.

Graduates are eligible to apply to take the National Council Licensure Examination (NCLEX-PN) which is required for practice as a Licensed Practical Nurse. Employment opportunities include hospitals, rehabilitation/long term care/home health facilities, clinics, and physicians' offices.

Only letter grades of "C" or higher in non-nursing courses and nursing (NUR) courses with a grade of "B" or higher will count toward completion of the Practical Nursing diploma.

The Practical Nursing Diploma program has a selective admissions process. Minimum eligibility criteria include: DMA 010 through DMA 080, eligible to enroll in ENG 111, NC Registry listing as a CNA I, GPA  $\geq 2.00$ . Please refer to the College Catalog - Admission Requirements for detailed information.

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education Courses</b>						
BIO 163	Basic Anatomy & Physiology	4	2	0	0	5
ENG 111	Writing and Inquiry	3	0	0	0	3
PSY 150	General Physiology	3	0	0	0	3
						<b>11</b>
<b>Major Core Courses</b>						
NUR 101	Practical Nursing I	7	6	6	0	11
NUR 102	Practical Nursing II	7	0	9	0	10
NUR 103	Practical Nursing III	6	0	9	0	9
						<b>30</b>

**Other Major Courses**

CIS 110	Intro. to Computers	2	2	0	0	3
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**3****Total Semester Hour Credits for Diploma****44****Supply Chain Management - A25620**

The Supply Chain Management curriculum prepares individuals for a multitude of career opportunities in distribution, transportation, warehousing, trucking operations, supply chain, and manufacturing organizations.

Course work includes the international and domestic movement of goods from the raw materials source(s) through production and ultimately to the consumer. Courses in economics and finance, transportation, warehousing, inventory control, material handling, purchasing, computerization, supply chain operations, federal transportation and safety regulations are emphasized.

Graduates should qualify for positions in a wide range of supply chain and logistics positions in government agencies, manufacturing, and service organizations. Employment opportunities include entry-level distribution, planning, material management, warehousing, inventory, transportation, trucking operations, international freight, and logistics.

				Hrs	Work	
		Class	Lab	Clin	Exp	Credits
<b>General Education Courses</b>						
COM 110	Introduction to Communication	3	0	0	0	3
ECO 251	Principles of Microeconomics	3	0	0	0	3
	or					
ECO 252	Principles of Macroeconomics	3	0	0	0	3
ENG 111	Writing and Inquiry	3	0	0	0	3
ENG 114	Professional Research & Reporting	3	0	0	0	3
HUM 115	Critical Thinking	3	0	0	0	3
MAT 143	Quantitative Literacy	2	2	0	0	3
	or					
MAT 171	Precalculus Algebra	3	2	0	0	4
						<b>18-19</b>

**Core Courses**

ACC 120	Principles of Financial Accounting	3	2	0	0	4
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BUS 115	Business Law I	3	0	0	0	3
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CIS 110	Introduction to Computers	2	2	0	0	3
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LOG 110	Introduction to Logistics	3	0	0	0	3
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**13**

**Global Logistics Technology Track**

LOG 125	Transportation Logistics	3	0	0	0	3
LOG 215	Supply Chain Management	3	0	0	0	3
LOG 235	Import/Export Management	3	0	0	0	3
LOG 240	Purchasing Logistics	3	0	0	0	3
LOG 250	Advanced Global Logistics	3	2	0	0	4
						<b>16</b>

**Other Major Courses**

BUS 110	Introduction to Business	3	0	0	0	3
CTS 130	Spreadsheets	2	2	0	0	3
DBA 110	Database Concepts	2	3	0	0	3
LOG 211	Distribution Management	3	0	0	0	3
						<b>12</b>

Major Elective (Select 2 Courses):

ACC 121, BUS 137, BUS 225, BUS 240, LOG 225, SPA 120	6-7
	<b>18-19</b>

**Other Required Courses**

ACA 122	College Transfer Success	0	2	0	0	1
						<b>1</b>

**Total Hours for Graduation****67-68****Supply Chain Management Diploma - D25620**

		Class	Lab	Hrs Clin	Work Exp	Credits
ENG 111	Writing and Inquiry	3	0	0	0	3
MAT 143	Quantitative Literacy	2	2	0	0	3
	or					
MAT 171	Precalculus Algebra	3	2	0	0	4
						<b>6-7</b>

**Major Core Courses**

ACC 120	Principles of Financial Accounting	3	2	0	0	4
BUS 115	Business Law I	3	0	0	0	3
CIS 110	Introduction to Computers	2	2	0	0	3
LOG 110	Introduction to Logistics	3	0	0	0	3
						<b>13</b>

**Other Major Courses**

BUS 110	Introduction to Business	3	0	0	0	3
LOG 125	Transportation Logistics	3	0	0	0	3
LOG 211	Distribution Management	3	0	0	0	3
LOG 215	Supply Chain Management	3	0	0	0	3
LOG 235	Import/Export Management	3	0	0	0	3
LOG 240	Purchasing Logistics	3	0	0	0	3
						<b>18</b>

**Total Hours for Graduation****37-38**



**Supply Chain Management Certificate - C25620A**

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>Major Core Courses</b>						
LOG 110	Introduction to Logistics	3	0	0	0	3
LOG 125	Transportation Logistics	3	0	0	0	3
LOG 215	Supply Chain Management	3	0	0	0	3
LOG 235	Import/Export Management	3	0	0	0	3
LOG 240	Purchasing Logistics	3	0	0	0	3
						<b>15</b>

**Logistics Analysis Certificate - C25620B**

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>Major Core Courses</b>						
CIS 110	Introduction to Computers	2	2	0	0	3
CTS 130	Spreadsheets	2	2	0	0	3
LOG 110	Introduction to Logistics	3	0	0	0	3
LOG 215	Supply Chain Management	3	0	0	0	3
LOG 225	Logistics Systems	3	2	0	0	4
						<b>16</b>

**Distribution Management Certificate - C25620C**

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>Major Core Courses</b>						
LOG 110	Introduction to Logistics	3	0	0	0	3
LOG 125	Transportation Logistics	3	0	0	0	3
LOG 211	Distribution Management	3	0	0	0	3
LOG 215	Supply Chain Management	3	0	0	0	3
LOG 225	Logistics Systems	3	2	0	0	4
						<b>16</b>

## Veterinary Medical Technology - A45780

This curriculum is designed to prepare individuals to assist veterinarians in preparing animals, equipment, and medications for examination and surgery; collecting specimens; performing laboratory, radiographic, anesthetic, dental procedures; assisting in surgery; and providing proper husbandry of animals and their environment.

Course work includes instruction in veterinary anatomy, nutrition, parasitology, pathology, physiology, radiology, terminology, zoology, office practices, laboratory techniques, dentistry, and small and large animal clinical practices.

Graduates of accredited programs may be eligible to take state and national examinations administered by the North Carolina Veterinary Medical Board. Graduates may be employed in veterinary clinics; diagnostic, research, or pharmaceutical laboratories; zoos; academic institutions; or other areas associated with animal care.

Only letter grades of "C" or higher in non-VET prefix courses and VET courses with a grade of "B" or higher will count toward completion of the Veterinary Medical Technology (VMT) degree.

The VMT program has a selective admissions process. Minimum application eligibility criteria include: eligible to enroll in MAT 171 and ENG 111, GPA > 2.00. Please refer to the College Catalog – Admissions Requirements for detailed information.

		Class	Lab	Clin Exp	Work Exp	Credit
<b>General Education</b>						
ENG 110	Freshman Composition or	3	0	0	0	3
ENG 111	Writing and Inquiry	3	0	0	0	3
COM	Elective (110, 120 or 231)	3	0	0	0	3
HUM/FA	Humanities/Fine Arts Elective	3	0	0	0	3
MAT 171	Precalculus Algebra	3	2	0	0	4
PSY 150	General Psychology	3	0	0	0	3
						<b>18</b>

### Major Core Courses

VET 110	Animal Breeds & Husbandry	2	2	0	0	3
VET 120	Vet Anatomy & Physiology	3	3	0	0	4
VET 121	Veterinary Medical Terminology	3	0	0	0	3
VET 123	Veterinary Parasitology	2	3	0	0	3
VET 125	Veterinary Diseases I	2	0	0	0	2
VET 126	Veterinary Diseases II	1	3	0	0	2
VET 131	Veterinary Laboratory Tech I	2	3	0	0	3
VET 133	Veterinary Clinical Practice I	2	3	0	0	2
VET 137	Veterinary Office Practices	1	2	0	0	2
VET 211	Veterinary Laboratory Tech II	2	3	0	0	3
VET 212	Veterinary Laboratory Tech III	2	3	0	0	3

VET 213	Veterinary Clinical Practice II	1	9	0	0	4
VET 214	Veterinary Clinical Practice III	1	9	0	0	4
VET 215	Veterinary Pharmacology	3	0	0	0	3
VET 217	Large Animal Clinical Practice	2	3	0	0	3
VET 237	Animal Nutrition	3	0	0	0	3
WBL 112	Work-Based Learning I	0	0	20	0	2
						<b>50</b>

**Other Major Courses**

CHM 130	Gen, Org, & Biochemistry	3	0	0	0	3
CHM 130A	Gen, Org, & Biochem (Lab)	0	2	0	0	1
						<b>4</b>

**Other Required Courses**

ACA 122	College Transfer Success	0	2	0	0	1
						<b>1</b>

**Total Hours for Graduation** **71**

**Welding Technology – A50420**

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

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

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.

		Hrs Wor				
		Class	Lab	Clin	Exp	Credits
<b>General Education</b>						
COM 110	Intro. to Communication	3	0	0		3
	Or					
COM 231	Public Speaking	3	0	0		3
ENG 110	Freshman Composition	3	0	0		3
	or					
ENG 111	Writing and Inquiry	3	0	0		3
HUM/FA	Humanities/Fine Arts Core Elect.	3	0	0		3
MAT 121	Algebra/Trigonometry I	2	2	0		3
	or					
MAT 171	Precalculus Algebra	3	2	0		4
SOC/BEH	Social/Behavioral Sci. Core Elect.	3	0	0		3

**15-16****Technical Core Courses**

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
WLD 131	GTAW (TIG) Plate	2	6	0	4
WLD 141	Symbols and Specifications	2	2	0	3

**18****Other Major Courses**

BPR 111	Print Reading	1	2	0	2
CIS 110	Introduction to Computer	2	2	0	3
DFT 151	CAD I	2	3	0	3
ISC 112	Industrial Safety	2	0	0	2
MAC 121	Intro. to CNC	2	0	0	2
WLD 116	SMAW (Stick) Plate/Pipe	1	9	0	4
WLD 122	GMAW (MIG) Plate/Pipe	1	6	0	3
WLD 132	GTAW (TIG) Plate/Pipe	1	6	0	3
WLD 151	Fabrication I	2	6	0	4
WLD 251	Fabrication II	1	6	0	3
WLD 261	Certification Practices	1	3	0	2
WLD 262	Inspection and Testing	2	2	0	3
WLD 265	Automated Welding/Cutting	2	6	0	4

**38****Other Required Courses**

ACA 122	College Transfer Success	0	2	0	1
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**1****Total Semester Hour Credits for AAS Degree****72-73****Welding Diploma – D50420**

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education</b>						
ENG 110	Freshman Composition	3	0	0		3
	or					
ENG 111	Writing and Inquiry	3	0	0		3
MAT 110	Mathematical Measurement	2	2	0		3
	or					
MAT 121	Algebra/Trigonometry I	2	2	0		3
<b>6</b>						
<b>Technical Core Courses</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

WLD 131	GTAW (TIG) Plate	2	6	0	4
WLD 141	Symbols and Specifications	2	2	0	3
					<b>18</b>

**Other Major Courses**

CIS 110	Introduction to Computer	0	2	0	3
DFT 151	CAD I	2	3	0	3
MAC 121	Intro to CNC	2	0	0	2
WLD 122	GMAW (MIG) Plate/Pipe	1	6	0	3
WLD 132	GTAW (TIG) Plate/Pipe	1	6	0	3
WLD 151	Fabrication I	2	6	0	4
WLD 261	Certification Practices	1	3	0	2
WLD 262	Inspection and Testing	2	2	0	3

**23****Total Hours for Graduation****47****Welding Technology Certificate – GMAW (MIG) – C50420A**

				Hrs	Work	Credits
		Class	Lab	Clin	Exp	
<b>Technical Core Courses</b>						
WLD 110	Cutting Processes	1	3	0	0	2
WLD 121	GMAW(MIG) FCAW/Plate	2	6	0	0	4
WLD 141	Symbols & Specifications	2	2	0	0	3
						<b>9</b>

**Other Major Courses**

BPR 111	Print Reading	1	2	0	0	2
WLD 122	GMAW (MIG) Plate/Pipe	1	6	0	0	3
						<b>5</b>

**Total Semester Hour Credits for Certificate****14****Welding Technology Certificate – SMAW (Stick) – C50420B**

				Hrs	Work	Credits
		Class	Lab	Clin	Exp	
<b>Technical Core Courses</b>						
WLD 110	Cutting Processes	1	3	0	0	2
WLD 115	SMAW (Stick) Plate	2	9	0	0	5
WLD 141	Symbols & Specifications	2	2	0	0	3
						<b>10</b>

**Other Major Courses**

BPR 111	Print Reading	1	2	0	0	2
WLD 116	SMAW (Stick) Plate/Pipe	1	9	0	0	4
						<b>6</b>

**Total Semester Hour Credits for Certificate****16**

**Welding Technology Certificate – GTAW (TIG) – C50420C**

				Hrs	Work	
		Class	Lab	Clin	Exp	Credits
<b>Technical Core Courses</b>						
WLD 110	Cutting Processes	1	3	0	0	2
WLD 131	GTAW (TIG) Plate	2	6	0	0	4
WLD 141	Symbols & Specifications	2	2	0	0	3
						<b>9</b>
<b>Other Major Courses</b>						
BPR 111	Print Reading	1	2	0	0	2
CIS 110	Introduction to Computer	1	2	0	0	2
WLD 132	GTAW (TIG) Plate/Pipe	1	6	0	0	3
						<b>5</b>
<b>Total Semester Hour Credits for Certificate</b>						<b>14</b>

**Welding Technology Certificate – Fabrication – C50420D**

				Hrs	Work	
		Class	Lab	Clin	Exp	Credits
<b>Other Major Courses</b>						
BPR 111	Print Reading	1	2	0	0	2
EGR 125	Appl Software for Tech	1	2	0	0	2
DFT 151	CAD I	2	3	0	0	3
MAC 121	Introduction to CNC	2	0	0	0	2
WLD 151	Fabrication I	2	6	0	0	4
WLD 251	Fabrication II	1	6	0	0	3
<b>Total Semester Hour Credits for Certificate</b>						<b>14</b>

**Welding Technology Certificate – General Welding – C50420E**

				Hrs	Work	
		Class	Lab	Clin	Exp	Credits
<b>Technical Core Courses</b>						
WLD 110	Cutting Processes	1	3	0	0	2
WLD 115	SMAW (Stick) Plate	2	9	0	0	5
WLD 121	GMAW(MIG) FCAW/Plate	2	6	0	0	4
WLD 131	GTAW (TIG) Plate	2	6	0	0	4
WLD 141	Symbols & Specifications	2	2	0	0	3
<b>Total Semester Hour Credits for Certificate</b>						<b>18</b>

**Welding Technology Certificate – Basic Welding – C50420F**

				Hrs	Work	
		Class	Lab	Clin	Exp	Credits
<b>Technical Core Courses</b>						
WLD 115	AB & BB SMAW	2	9	0	0	5
WLD 121	GMAW(MIG) FCAW/Plate	2	6	0	0	4
WLD 131	GTAW (TIG) Plate	2	6	0	0	4
<b>Total Semester Hour Credits for Certificate</b>						<b>13</b>

## Associate in Arts Degree – A10100

The College Transfer curriculum is designed for students who intend to transfer to a senior college for their baccalaureate degree. The freshman and sophomore level courses introduce the students to areas of study that develop breadth of outlook and contribute to balanced development. This training is complementary to, but different in emphasis from, the specialized training one receives for a job, a profession, or a major in a particular field of study.

The curriculum includes courses in communications, humanities and fine arts, mathematics, science, social sciences, physical education, and elective courses in liberal arts. These courses in the College Transfer Program assist students to develop an understanding and appreciation of the political, social, economic and cultural institutions in our society; to develop the ability for critical and constructive thinking, for problem solving, and ordering of values; to maintain good mental and physical health for self, family, and community, and balanced personal and social adjustment; to use basic mechanical, mathematical, and communication skills to solve everyday problems, understand ideas of others, and express ideas effectively; to understand their cultural heritage; to understand the creative activities of others; and to encourage participation in creative activities.

Upon successful completion of the degree requirements, students are awarded the Associate in Arts degree.

Only letter grades of "C" or higher in all curriculum courses will count towards completion of the College Transfer Degree.

## General Education Core (45 SHC)

		Class		Hrs		Work	
		Lab	Clin	Exp	Credits		
<b>English Composition (6 SHC)</b>							
ENG 111	Writing and Inquiry	3	0	0	0	3	
ENG 112	Writing and Research in the Disciplines	3	0	0	0	3	

## Humanities/Fine Arts (9 SHC)

Select 3 courses from 2 different areas listed below:

ART 111	Art Appreciation	3	0	0	0	3	
ART 114	Art History Survey I	3	0	0	0	3	
ART 115	Art History Survey II	3	0	0	0	3	
COM 231	Public Speaking	3	0	0	0	3	
ENG 231	American Literature I	3	0	0	0	3	
ENG 232	American Literature II	3	0	0	0	3	
ENG 241	British Literature I	3	0	0	0	3	
ENG 242	British Literature II	3	0	0	0	3	

MUS 110	Music Appreciation	3	0	0	0	3
MUS 112	Introduction to Jazz	3	0	0	0	3
PHI 215	Philosophical Issues	3	0	0	0	3
PHI 240	Introductions to Ethics	3	0	0	0	3

### Social/Behavioral Sciences (9 SHC)

Select 3 courses from 2 different areas below:

ECO 251	Principles of Microeconomics	3	0	0	0	3
ECO 252	Principles of Macroeconomics	3	0	0	0	3
HIS 111	World Civilization I	3	0	0	0	3
HIS 112	World Civilization II	3	0	0	0	3
HIS 131	American History I	3	0	0	0	3
HIS 132	American History II	3	0	0	0	3
POL 120	American Government	3	0	0	0	3
PSY 150	General Psychology	3	0	0	0	3
SOC 210	Intro. to Sociology	3	0	0	0	3

### Natural Sciences (4 SHC)

Select one science *with lab* from the Science courses below:

AST 111	Descriptive Astronomy and	3	0	0	0	3
AST 111A	Descriptive Astronomy Lab	0	2	0	0	1
AST 151	General Astronomy I and	3	0	0	0	3
AST 151A	General Astronomy I Lab	0	2	0	0	1
BIO 110	Principles of Biology	3	3	0	0	4
BIO 111	General Biology I	3	3	0	0	4
CHM 151	General Chemistry I	3	3	0	0	4
GEL 111	Introductory Geology	3	2	0	0	4
PHY 110	Conceptual Physics and	3	0	0	0	3
PHY 110A	Conceptual Physics Lab	0	2	0	0	1

### Mathematics (One Course)

Select 1 course from the following list:

MAT 143	Quantitative Literacy (3 SHC)	2	2	0	0	3
MAT 152	Statistical Methods (4 SHC)	3	2	0	0	4
MAT 171	Precalculus Algebra (4 SHC)	3	2	0	0	4



**Additional General Education Hours (13-14 credit hours)**

Select 13-14 credit hours from classes classified as general education. Select course with an asterisk (\*).

**Other Required Courses (1 SHC)**

ACA 122	College Transfer Success	0	2	0	0	1
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**Other Pre-major Electives (14 SHC)**

Select 14 semester hours from the list of suggested electives for AA and AS degrees on page 256. In selecting electives, students should consult with their advisor in the advising center and make choices which are most appropriate for the intended university major. (These must be different and separate from any used for additional general education hours.)

\*Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.

## Associate in Engineering – A10500

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

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

To be eligible for the transfer of credits under the AE to the Bachelor of Science in Engineering Articulation Agreement, community college graduates must obtain a grade of “C” or better in each course and an overall GPA of at least 2.5 on a 4.0 scale.

### General Education Core (42 SHC)

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>English Composition (6 SHC)</b>						
ENG 111	Writing and Inquiry	3	0	0	0	3
ENG 112	Writing/Research in the Disciplines	3	0	0	0	3

### Humanities (3 SHC)

Select One:

ENG 231	American Literature I	3	0	0	0	3
ENG 232	American Literature II	3	0	0	0	3
ENG 241	British Literature I	3	0	0	0	3
ENG 242	British Literature II	3	0	0	0	3
PHI 215	Philosophical Issues	3	0	0	0	3
PHI 240	Introductions to Ethics	3	0	0	0	3
REL 110	World Religions	3	0	0	0	3

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

### Fine Arts/Communication (3 SHC)

Select One:

COM 231	Public Speaking	3	0	0	0	3
ART 111	Art Appreciation	3	0	0	0	3

ART 114	Art History Survey I	3	0	0	0	3
ART 115	Art History Survey II	3	0	0	0	3
MUS 110	Music Appreciation	3	0	0	0	3
MUS 112	Introduction to Jazz	3	0	0	0	3

### Social/Behavioral Sciences (6 SHC)

Required: ECO 251 Principles of Microeconomics (3 SHC)

ECO 251	Principles of Microeconomics	3	0	0	0	3
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Select One:

HIS 111	World Civilizations I	3	0	0	0	3
HIS 112	World Civilizations II	3	0	0	0	3
HIS 131	American History I	3	0	0	0	3
HIS 132	American History II	3	0	0	0	3
POL 120	American Government	3	0	0	0	3
PSY 150	General Psychology	3	0	0	0	3
SOC 210	Introduction to Sociology	3	0	0	0	3

### Mathematics (12 SHC)

Calculus I is the lowest level math course that will be accepted by the engineering programs for transfer as a math credit. Students who are not calculus ready will need to take additional math courses (MAT 171/MAT 172):

MAT 271	Calculus I	3	2	0	0	4
MAT 272	Calculus II	3	2	0	0	4
MAT 273	Calculus III	3	2	0	0	4

### Natural Sciences (12 SHC)

CHM 151	General Chemistry I	3	3	0	0	4
PHY 251	General Physics I	3	3	0	0	4
PHY 252	General Physics II	3	3	0	0	4

### Other Required Courses (18 SHC)

ACA 122	College Transfer Success	0	2	0	0	1
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Students must complete ACA 122 within the first 30 hours of enrollment.

EGR 150	Introduction to Engineering	1	2	0	0	2
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### Other General Education/Pre-Major Elective Courses (15 SHC)

Select 15 SHC of courses from the following courses classified as pre-major, elective, or general education courses within the Comprehensive Articulation Agreement. (Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.) Students should choose courses appropriate to the specific university and engineering major requirements.

BIO 111	General Biology I	3	3	0	0	4
CHM 152	General Chemistry II	3	3	0	0	4

Curriculum Programs

COM 110	Introduction to Communication	3	0	0	0	3
CSC 134	C++ Programming	2	3	0	0	3
CSC 151	Java Programming	2	3	0	0	3
DFT 170	Engineering Graphics	2	2	0	0	3
ECO 252	Principles of Macroeconomics	3	0	0	0	3
EGR 214	Numerical Methods for Engineers	3	0	0	0	3
EGR 220	Engineering Statistics	3	0	0	0	3
HUM 110	Technology and Society	3	0	0	0	3
MAT 280	Linear Algebra	2	2	0	0	3
MAT 285	Differential Equations	2	2	0	0	3
PED 110	Fitness and Wellness for Life	1	2	0	0	2

\*Students must meet the receiving university's foreign language and /or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.

**Total Semester Hour Credits for AE Degree**

**60-61**

## Associate in General Education Degree – A10300

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

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

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

Only letter grades of “C” or higher in all curriculum courses will count towards completion of the College Transfer Degree.

### General Education Core (15 SHC)

The general education core includes study in the areas of humanities and fine arts, social and behavioral sciences, natural sciences and mathematics, and English composition. Within the core, colleges must include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and the basic use of computers (SACS Criteria, 4.2.2.)

### English Composition (6 SHC)

#### Humanities/Fine Arts (3 SHC)

Select courses from the following discipline areas: music, art, drama, dance, foreign languages, interdisciplinary humanities, literature, philosophy and religion.

#### Social/Behavioral Sciences (3 SHC)

Select courses from the following discipline areas: anthropology, economics, geography, history, political science, psychology, and sociology.

#### Natural Sciences/Mathematics (3 SHC)

**Mathematics:** Select courses from the following discipline areas: college algebra, trigonometry, calculus, and statistics.

or

**Natural Sciences:** Select courses from the following discipline areas: astronomy, biology, chemistry, earth sciences, physics, and/or general science.

### Other Required Hours (49-50 SHC)

Other required hours include additional general education and professional courses.

A maximum of 7 SHC in health, physical education, college orientation, and/or study skills may be included as other required hours.

**Total Semester Hour Credits for AGE Degree**

**64-65**

## **East Carolina University – State Employees Credit Union Partnership East**

SECU Partnership East provides opportunities for students to complete bachelor's degrees in Elementary Education, Special Education, and Middle Grades Education at Nash Community College. Students take specific courses from the college transfer program before transferring to East Carolina University as juniors. Junior and senior level coursework from ECU is offered through online enrollment with personal advising. Visit Kathy Bradley in room 7226 in the Science & Technology Center or contact her at 451-8212 or [kbradley@nashcc.edu](mailto:kbradley@nashcc.edu) for a checklist of required courses, information about prerequisites, and application deadlines.

## Associate in Science Degree – A10400

The College Transfer curriculum is designed for students who intend to transfer to a senior college for their baccalaureate degree. The freshman and sophomore level courses introduce the students to areas of study that develop breadth of outlook and contribute to balanced development. This training is complementary to, but different in emphasis from the specialized training one receives for a job, a profession, or a major in a particular field of study.

The curriculum includes courses in communications, humanities and fine arts, mathematics, science, social sciences, physical education, and elective courses in liberal arts. These courses in the College Transfer Program assist students to develop an understanding and appreciation of the political, social, economic and cultural institutions in our society; to develop the ability for critical and constructive thinking, for problem solving, and ordering of values; to maintain good mental and physical health for self, family, and community, and balanced personal and social adjustment; to use basic mechanical, mathematical, and communication skills to solve everyday problems, understand ideas of others, and express ideas effectively; to understand their cultural heritage; to understand the creative activities of others; and to encourage participation in creative activities.

Upon successful completion of the degree requirements, students are awarded the Associate in Science degree.

Beginning with students entering the College Transfer programs of study in Fall 2007, only letter grades of "C" or higher in all curriculum courses will count towards completion of the College Transfer Diploma and/or Degree.

### General Education Core (45 SHC)

		Hrs		Work		Credits
Class	Lab	Clin	Exp			
<b>English Composition (6 SHC)</b>						
ENG 111	Writing and Inquiry	3	0	0	0	3
ENG 112	Writing and Research in the Disciplines	3	0	0	0	3

### Humanities/Fine Arts (6 SHC)

Select 2 courses from 2 different areas listed below:

ART 111	Art Appreciation	3	0	0	0	3
ART 114	Art History Survey I	3	0	0	0	3
ART 115	Art History Survey II	3	0	0	0	3
COM 231	Public Speaking	3	0	0	0	3
ENG 231	American Literature I	3	0	0	0	3
ENG 232	American Literature II	3	0	0	0	3
ENG 241	British Literature I	3	0	0	0	3

ENG 242	British Literature II	3	0	0	0	3
MUS 110	Music Appreciation	3	0	0	0	3
MUS 112	Introduction to Jazz	3	0	0	0	3
PHI 215	Philosophical Issues	3	0	0	0	3
PHI 240	Introductions to Ethics	3	0	0	0	3

### Social/Behavioral Sciences (6 SHC)

Select 2 courses from 2 different areas listed below:

ECO 251	Principles of Microeconomics	3	0	0	0	3
ECO 252	Principles of Macroeconomics	3	0	0	0	3
HIS 111	World Civilizations I	3	0	0	0	3
HIS 112	World Civilizations II	3	0	0	0	3
HIS 131	American History I	3	0	0	0	3
HIS 132	American History II	3	0	0	0	3
POL 120	American Government	3	0	0	0	3
PSY 150	General Psychology	3	0	0	0	3
SOC 210	Intro. to Sociology	3	0	0	0	3

### Natural Sciences (8 SHC)

Select 2 Sciences (with lab) from the following list.

AST 151	General Astronomy I and	3	0	0	0	3
AST 151A	General Astronomy I Lab	0	2	0	0	1
BIO 110	Principles of Biology	3	3	0	0	4
BIO 111	General Biology I and	3	3	0	0	4
BIO 112	General Biology II	3	3	0	0	4
CHM 151	General Chemistry I and	3	3	0	0	4
CHM 152	General Chemistry II	3	3	0	0	4
GEL 111	Introductory Geology	3	2	0	0	4
PHY 110	Conceptual Physics and	3	0	0	0	3
PHY 110A	Conceptual Physics Lab	0	2	0	0	1
PHY 151	College Physics I and	3	3	0	0	4
PHY 152	College Physics II	3	3	0	0	4
PHY 251	General Physics I and	3	3	0	0	4
PHY 252	General Physics II	3	3	0	0	4

### Mathematics (8 SHC)

Select 2 courses from the following list:

MAT 171	Precalculus Algebra	3	2	0	0	4
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MAT 172	Precalculus Trigonometry	3	2	0	0	4
MAT 263	Brief Calculus	3	2	0	0	3
MAT 271	Calculus I	3	2	0	0	4
MAT 272	Calculus II	3	2	0	0	4

### Additional General Education Hours (11 credit hours)

Select 11 credit hours from classes classified as general education. Select course with an asterisk (\*).

### Other Required Courses (1 SHC)

ACA 122	College Transfer Success	0	2	0	0	1
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### Other Pre-Major Electives (14 SHC)

Select 14 semester hours from the list of suggested electives for the AA and AS degrees on page 256. In selecting electives students should consult with their advisor in the advising center area and make choices which are most appropriate for the intended university major.

(These must be different and separate from any you used above for additional education hours.)

**14**

\*Students must meet the receiving university's foreign language and /or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.

**Total Semester Hour Credits for AS Degree**

**60-61**

## Associate in General Education Nursing – A1030N

The Associate in General Education (AGE)-Nursing is designed for student who wish to begin their study toward the Associate in Nursing degree and a Baccalaureate degree in Nursing as base on Blocks 1 through 3 of the Uniform Articulation Agreement between the University of North Carolina's Registered Nurse (RN) to Bachelor of Science in Nursing (BSN) programs and the North Carolina Community College Associate Degree Nursing Programs which was approved by the State Board of Community Colleges and the UNC Board of Governors in February 2015. The AGE-Nursing shall be granted for a planned program of study consisting of a minimum of 60 semester hours of credit (SHC) of courses.

A Student who completes an Associated in Applied Science (AAS) in Nursing with a GPA of at least 2.0 and a grade of C or better in the AGE-Nursing courses listed below and who holds a current unrestricted license as a Registered Nurse in North Carolina will have fulfilled the UNC institutions lower-division general education requirements as well as nursing program entry requirements. However, because nursing programs admissions are competitive, no student is guaranteed admission to the program of his or her choice.

**General Education-ADN (16 SHC)**

		Class	Lab	Hrs Clin	Work Exp	Credits
ENG 111	Writing and Inquiry	3	0	0	0	3
ENG 112	Writing and Research in the Disciplines	3	0	0	0	3
	or					
ENG 114	Prof Research & Reporting	3	0	0	0	3
MAT 171	Precalculus Algebra	3	2	0	0	4
PSY 150	General Psychology	3	0	0	0	3
HUM 115	Critical Thinking	3	0	0	0	3
	or					
PHI 215	Philosophical Issues	3	0	0	0	3
	or					
PHI 240	Introduction to Ethics	3	0	0	0	3

**Other Major Hours-ADN (15 SCH)**

BIO 168	Anatomy & Physiology I	3	3	0	0	4
BIO 169	Anatomy & Physiology II	3	3	0	0	4
CHM 130	Gen, Organic & Biochem	3	0	0	0	3
CHM 130A	Gen, Organic & Biochem Lab	0	3	0	0	1
PSY 241	Developmental Psychology	3	0	0	0	3

**Other Required Hours-ADN (1 SCH):**

ACA 122	College Transfer Success	1	0	0	0	1
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**Other Major Hours-BSN (32 SCH):**

SOC 210	Introduction to Sociology	3	0	0	0	3
MAT 152	Statistical Methods I (Select 1)	3	2	0	0	4
BIO 175	General Microbiology	2	2	0	0	3
BIO 275	Microbiology (Select 1)	3	3	0	0	4
ENG 231	American Literature I	3	0	0	0	3
ENG 232	American Literature II (Select 1)	3	0	0	0	3
HIS 111	World Civilizations I	3	0	0	0	3
HIS 112	World Civilizations II	3	0	0	0	3
HIS 131	American History I	3	0	0	0	3
HIS 132	American History II (Select 1)	3	0	0	0	3
ART 111	Art Appreciation	3	0	0	0	3
ART 114	Art History Survey I	3	0	0	0	3
ART 115	Art History Survey II	3	0	0	0	3

MUS 110	Music Appreciation	3	0	0	0	3
MUS 112	Introduction to Jazz (Select 1)	3	0	0	0	3
SOC 213	Sociology of the Family	3	0	0	0	3
SOC 220	Social Problems	3	0	0	0	3
SOC 240	Social Psychology (Select 2)	3	0	0	0	3
ECO 251	Principles of Microeconomics	3	0	0	0	3
ECO 252	Principles of Macroeconomics	3	0	0	0	3
POL 120	American Government	3	0	0	0	3
SPA 111	Elementary Spanish I	3	0	0	0	3
SPA 112	Elementary Spanish II	3	0	0	0	3
COM 110	Intro to Communication	3	0	0	0	3
COM 120	Interpersonal Communication	3	0	0	0	3
COM 140	Intercultural Communication	3	0	0	0	3
COM 231	Public Speaking	3	0	0	0	3
HUM 120	Cultural Studies	3	0	0	0	3
CIS 110	Introduction to Computers	3	0	0	0	3
CIS 115	Introduction to Programming & Logic	3	0	0	0	3
<b>Total Semester Hour Credits for AGE-A1030N Degree</b>						<b>60-61</b>

## Associate in Arts (AA), Associate in General Educate (AGE), and Associate in Science (AS) Degree Suggested Pre-Major Electives

\*Denotes General Education Courses

		Class	Lab	Hrs		Credits
				Clin	Work	
<i>Humanities/Fine Arts</i>						
*ART 111	Art Appreciation	3	0	0	0	3
*ART 114	Art History Survey I	3	0	0	0	3
*ART 115	Art History Survey II	3	0	0	0	3
*COM 110	Introduction to Communication	3	0	0	0	3
*COM 120	Interpersonal Communication	3	0	0	0	3
*COM 140	Intercultural Communication	3	0	0	0	3
COM 160	Small Group Communication	3	0	0	0	3
*COM 231	Public Speaking	3	0	0	0	3
COM 251	Debate I	3	0	0	0	3
*DRA 111	Theatre Appreciation	3	0	0	0	3
DRA 170	Play Production I	0	9	0	0	3
DRA 171	Play Production II	0	9	0	0	3
ENG 125	Creative Writing I	3	0	0	0	3
*ENG 231	American Literature I	3	0	0	0	3
*ENG 232	American Literature II	3	0	0	0	3
*ENG 233	Major American Authors	3	0	0	0	3
*ENG 241	British Literature I	3	0	0	0	3
*ENG 242	British Literature II	3	0	0	0	3
ENG 253	The Bible as Literature	3	0	0	0	3
*ENG 261	World Literature I	3	0	0	0	3
*ENG 262	World Literature II	3	0	0	0	3
ENG 273	African-American Literature	3	0	0	0	3
*FRE 111	Elementary French I	3	0	0	0	3
*FRE 112	Elementary French II	3	0	0	0	3
*FRE 211	Intermediate French I	3	0	0	0	3
*FRE 212	Intermediate French II	3	0	0	0	3
*HUM 110	Technology and Society	3	0	0	0	3
*HUM 115	Critical Thinking	3	0	0	0	3
*HUM 120	Cultural Studies	3	0	0	0	3
*HUM 130	Myth in Human Culture	3	0	0	0	3
*HUM 150	American Women's Studies	3	0	0	0	3
*HUM 160	Introduction to Film	2	2	0	0	3
*HUM 180	International Cultural Exploration	2	3	0	0	3
*HUM 211	Humanities I	3	0	0	0	3
*HUM 212	Humanities II	3	0	0	0	3
*MUS 110	Music Appreciation	3	0	0	0	3
*MUS 112	Introduction to Jazz	3	0	0	0	3
MUS 131	Chorus I	3	0	0	0	3

MUS 132	Chorus II	3	0	0	0	3
*PHI 215	Philosophical Issues	3	0	0	0	3
*PHI 220	Western Philosophy I	3	0	0	0	3
*PHI 230	Introduction to Logic	3	0	0	0	3
*PHI 240	Introduction to Ethics	3	0	0	0	3
*REL 110	World Religions	3	0	0	0	3
*REL 211	Introduction to Old Testament	3	0	0	0	3
*REL 212	Introduction to New Testament	3	0	0	0	3
*SPA 111	Elementary Spanish I	3	0	0	0	3
*SPA 112	Elementary Spanish II	3	0	0	0	3
SPA 161	Cultural Immersion	3	2	0	0	3
*SPA 211	Intermediate Spanish I	3	0	0	0	3
*SPA 212	Intermediate Spanish II	3	0	0	0	3

## \*General Education

				Hrs	Work	
<i>Social and Behavioral Sciences</i>		Class	Lab	Clin	Exp	Credits
*ANT 210	General Anthropology	3	0	0	0	3
*ANT 220	Cultural Anthropology	3	0	0	0	3
*ECO 251	Principles of Microeconomics	3	0	0	0	3
*ECO 252	Principles of Macroeconomics	3	0	0	0	3
EDU 216	Foundation in Education	3	0	0	0	3
EDU 221	Children with Exceptionalities	1	0	0	0	1
*GEO 111	World Regional Geography	3	0	0	0	3
*HIS 111	World Civilizations I	3	0	0	0	3
*HIS 112	World Civilizations II	3	0	0	0	3
HIS 116	Current World Problems	3	0	0	0	3
*HIS 121	Western Civilizations I	3	0	0	0	3
*HIS 122	Western Civilization II	3	0	0	0	3
*HIS 131	American History I	3	0	0	0	3
*HIS 132	American History II	3	0	0	0	3
HIS 145	The Second World War	3	0	0	0	3
HIS 162	Women and History	3	0	0	0	3
HIS 211	Ancient History	3	0	0	0	3
HIS 221	African-American History	3	0	0	0	3
HIS 226	The Civil War	3	0	0	0	3
HIS 227	Native American History	3	0	0	0	3
HIS 228	History of the South	3	0	0	0	3
HIS 236	North Carolina History	3	0	0	0	3
HIS 261	East Asian History	3	0	0	0	3
HIS 262	Middle East History	3	0	0	0	3
*POL 110	Introduction to Political Science	3	0	0	0	3
*POL 120	American Government	3	0	0	0	3
POL 130	State and Local Government	3	0	0	0	3
*POL 220	International Relations	3	0	0	0	3

Curriculum Programs

*PSY 150	General Psychology	3	0	0	0	3
PSY 231	Forensic Psychology	3	0	0	0	3
*PSY 239	Psychology of Personality	3	0	0	0	3
*PSY 241	Developmental Psychology	3	0	0	0	3
PSY 263	Educational Psychology	3	0	0	0	3
*PSY 281	Abnormal Psychology	3	0	0	0	3
*SOC 210	Introduction to Sociology	3	0	0	0	3
*SOC 213	Sociology of the Family	3	0	0	0	3
*SOC 220	Social Problems	3	0	0	0	3
*SOC 240	Social Psychology	3	0	0	0	3
SOC 242	Sociology of Deviance	3	0	0	0	3

		Hrs				Work
<i>Natural Sciences</i>		Class	Lab	Clin	Exp	Credits
*AST 111	Descriptive Astronomy	3	0	0	0	3
*AST 111A	Descriptive Astronomy Lab	0	2	0	0	1
*AST 151	General Astronomy	3	0	0	0	3
*AST 151A	General Astronomy Lab	0	2	0	0	1
*BIO 110	Principles of Biology	3	3	0	0	4
*BIO 111	General Biology I	3	3	0	0	4
*BIO 112	General Biology II	3	3	0	0	4
*BIO 130	Introductory Zoology	3	3	0	0	4
*BIO 140	Environmental Biology	3	0	0	0	3
*BIO 140A	Environmental Biology Lab	0	3	0	0	1
BIO 143	Field Biology Minicourse	1	2	0	0	2
BIO 145	Ecology	3	3	0	0	4
BIO 146	Regional Natural History	3	3	0	0	4
BIO 150	Genetics in Human Affairs	3	0	0	0	3
BIO 155	Nutrition	3	0	0	0	3
BIO 163	Basic Anatomy & Physiology	4	2	0	0	5
BIO 168	Anatomy & Physiology I	3	3	0	0	4
BIO 169	Anatomy & Physiology II	3	3	0	0	4
BIO 175	General Microbiology	2	2	0	0	3
BIO 250	Genetics	3	3	0	0	4
BIO 275	Microbiology	3	3	0	0	4
BIO 280	Biotechnology	2	3	0	0	3
CHM 130	Gen, Org and Biochemistry	3	0	0	0	3
CHM 130A	Gen, Org and Biochemistry Lab	0	2	0	0	1
*CHM 131	Introduction to Chemistry	3	0	0	0	4
*CHM 131A	Introduction to Chemistry Lab	0	3	0	0	1
*CHM 151	General Chemistry I	3	3	0	0	4
*CHM 152	General Chemistry II	3	3	0	0	4
*CHM 251	Organic Chemistry I	3	3	0	0	4
*CHM 252	Organic Chemistry II	3	3	0	0	4

EGR 150	Introduction to Engineering	1	2	0	0	2
EGR 220	Engineering Statics	3	0	0	0	3
*GEL 111	Introductory Geology	3	2	0	0	4
PHS 110	Survey of Physical Science	3	2	0	0	4
PHS 130	Earth Science	3	2	0	0	4
*PHY 110	Conceptual Physics	3	0	0	0	3
*PHY 110A	Conceptual Physics Lab	0	2	0	0	1
*PHY 151	College Physics I	3	2	0	0	4
*PHY 152	College Physics II	3	2	0	0	4
*PHY 251	General Physics I	3	3	0	0	4
*PHY252	General Physics II	3	3	0	0	4

				Hrs	Work	
<i>Mathematics and Computer Science</i>		Class	Lab	Clin	Exp	Credits
CSC 134	C++ Programming	2	3	0	0	3
CSC 139	Visual BASIC Programming	2	3	0	0	3
CSC 151	Java Programming	2	3	0	0	3
CSC 239	Advanced Visual Basic Programming	2	3	0	0	3
CTS 115	Info Systems Business Concepts	3	0	0	0	3
MAT 141	Mathematical Concepts II	3	0	0	0	3
MAT 142	Mathematical Concepts II	3	0	0	0	3
*MAT 143	Quantitative Literacy	2	2	0	0	3
*MAT 152	Statistical Methods I	3	2	0	0	4
MAT 167	Discrete Mathematics	3	0	0	0	3
*MAT 171	Precalculus Algebra	3	2	0	0	4
*MAT 172	Precalculus Trigonometry	3	2	0	0	4
MAT 175	Precalculus	4	0	0	0	4
MAT 252	Statistics II	3	2	0	0	4
*MAT 263	Brief Calculus	3	2	0	0	4
*MAT 271	Calculus I	3	2	0	0	4
*MAT 272	Calculus II	3	2	0	0	4
*MAT 273	Calculus III	3	2	0	0	4
MAT 280	Linear Algebra	2	2	0	0	3
MAT 285	Differential Equations	2	2	0	0	3

				Hrs	Work	
<i>Health and Physical Education</i>		Class	Lab	Clin	Exp	Credits
HEA 110	Personal Health/Wellness	3	0	0	0	3
HEA 112	First Aid and CPR	1	2	0	0	2
PED 110	Fit and Well for Life	2	1	0	0	2
PED 113	Aerobics I	0	3	0	0	1
PED 117	Weight Training I	0	3	0	0	1
PED 120	Walking for Fitness	0	3	0	0	1
PED 121	Walk, Jog, Run	0	3	0	0	1

Curriculum Programs

PED 122	Yoga I	0	2	0	0	1
PED 123	Yoga II	0	2	0	0	1
PED 125	Self Defense	0	2	0	0	1
PED 127	Karate	0	3	0	0	1
PED 128	Golf-Beginning	0	2	0	0	1
PED 130	Tennis-Beginning	0	2	0	0	1
PED 132	Racquetball-Beginning	0	2	0	0	1
PED 139	Bowling-Beginning	0	2	0	0	1
PED 143	Volleyball-Beginning	0	2	0	0	1
PED 152	Swimming-Beginning	0	2	0	0	1
PED 153	Swimming-Intermediate	0	2	0	0	1
PED 156	Scuba Diving	0	2	0	0	1
PED 162	Angling	0	2	0	0	1
PED 171	Nature Hiking	0	2	0	0	1
PED 172	Outdoor Living	1	2	0	0	2
PED 181	Snow Skiing-Beginning	0	2	0	0	1
PED 215	Outdoor Cycling	0	2	0	0	1
PED 217	Pilates I	0	2	0	0	1
PED 218	Pilates II	0	2	0	0	1
PED 219	Disc Golf	0	2	0	0	1
PED 235	Tai Chi	0	3	0	0	1
PED 252	Officiating Baseball/Softball	1	2	0	0	2
PED 260	Lifeguard Training	1	2	0	0	2

*Business Administration*

		Class	Lab	Clin	Exp	Credits
DFT 170	Engineering Graphics	2	2	0	0	3
EGR 210	Intro to Electrical/Computer Eng. Lab	1	3	0	0	2
EGR 212	Logic System Design I	3	0	0	0	3
EGR 215	Network Theory I	3	0	0	0	3
EGR 216	Logic and Network Lab	0	3	0	0	1
EGR 220	Engineering Statics	3	0	0	0	3
EGR 225	Engineering Dynamics	3	0	0	0	3
EGR 228	Introduction to Solid Mechanics	3	0	0	0	3

*Engineering*

		Class	Lab	Clin	Exp	Credits
ACC 120	Principles of Financial Accounting	3	2	0	0	4
ACC 121	Principles of Managerial Accounting	3	2	0	0	4
BUS 110	Introduction to Business	3	0	0	0	3
BUS 115	Business Law I	3	0	0	0	3
BUS 137	Principles of Management	3	0	0	0	3
*CIS 110	Introduction to Computers	2	2	0	0	3
*CIS 115	Introduction to Prog. and Logic	2	3	0	0	3



		Hrs			Work	
<i>Criminal Justice</i>		Class	Lab	Clin	Exp	Credits
CJC 111	Introduction to Criminal Justice	3	0	0	0	3
CJC 121	Law Enforcement Operations	3	0	0	0	3
CJC 141	Corrections	3	0	0	0	3

In selecting electives students should consult with their advisor in the College Transfer Department and make choices in keeping with their planned majors and the requirements of the institutions to which they anticipate transferring.

## Developmental Studies Program

The Developmental Studies Program is designed to increase the likelihood of success for the student who may have academic deficiencies and who wishes to enter a two-year program. If, based on placement test scores, the student is academically deficient in two of the three areas — mathematics (MAT 030 or below), English (ENG 080) or reading (below RED 090) — the student is required to complete all of the courses in the program unless the student's intended curriculum or placement test scores indicate otherwise. If a student does not attain the minimum placement score levels in all three areas—reading, English, and mathematics—the student is referred to the Learning Center before being allowed to enroll in curriculum courses. Any student may elect to complete the Developmental Studies Program.

All academic regulations are applicable to this phase of study. Curriculum electives taken while in the program apply toward degree credit; however, required courses in the Developmental Studies program award institutional credit only.

		Hrs			Work	
<b>Developmental Studies</b>		Class	Lab	Clin	Exp	Credits
BIO 094	Concepts of Human Biology	3	2	0	0	4
DMA 010	Operations with Integers	.75	.50	0	0	1
DMA 020	Fractions and Decimals	.75	.50	0	0	1
DMA 030	Proportions/Ratios/Rates/Percents	.75	.50	0	0	1
DMA 040	Expressions, Linear Equations Linear Inequalities	.75	.50	0	0	1
DMA 050	Graphs and Equations of Lines	.75	.50	0	0	1
DMA 060	Polynomials & Quadratic Equations	.75	.50	0	0	1
DMA 070	Rational Expressions & Equations	.75	.50	0	0	1
DMA 080	Radical Expressions & Equations	.75	.50	0	0	1
DRE 096	Integrated Reading and Writing I	2.5	1	0	0	3
DRE 097	Integrated Reading and Writing I I	2.5	1	0	0	3
DRE 098	Integrated Reading and Writing I II	2.5	1	0	0	3
MAT 050	Basic Math Skills	3	2	0	0	4
MAT 060	Essential Mathematics	3	2	0	0	4
MAT 070	Introductory Algebra	3	2	0	0	4

MAT 080	Intermediate Algebra	3	2	0	0	4
OST 080	Keyboarding Literacy	1	2	0	0	2

## Biotechnology – A20100

*Instructional Service Agreement with Pitt 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.

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education Courses</b>						
ENG 111	Writing and Inquiry		3	0	0	3
ENG 112	Argument-Based Research		3	0	0	3
	Math Elective		3	0-2	0	3-4
	Humanities/Fine Arts Core Elect.		3	0	0	3
	Social/Beh. Sciences Elective		0	0	0	3
	(Select options below)					
<b>Major Core Courses</b>						
BIO 111	General Biology I		3	3	0	4
BIO 112	General Biology II		3	3	0	4
	Chemistry Elective		3	3	0	4
*CHM 132	Organic and Biochemistry		3	3	0	4
*BTC 181	Basic Lab Techniques		3	3	0	4
BIO 275	Microbiology		3	3	0	4
	General Elective		3	0-3	0	3-4
MAT 152	Statistical Methods I		3	2	0	4
CIS 110	Introduction to Computers		2	2	0	3
ACA 122	College Transfer Success		0	2	0	1
	Major Hours Electives (See Below)					15-17
<b>Total Credits for AAS Degree</b>						<b>65-67</b>

### Recommended Electives:

#### **Chemistry Electives:**

CHM 131 Introduction to Chemistry **and** CHM 131A Introduction to Chemistry Lab  
or  
Chemistry I      General Chemistry I

**Genetics Electives (pick one):**

\*BTC 250 Principles of Genetics

BIO 250 Genetics

Mathematics Electives (pick one):

MAT 110 Mathematical Measurement

MAT 171 Precalculus Algebra

**Humanities/Fine Arts Electives (pick one):**

ART 111 Art Appreciation

HUM 110 Technology and Society

HUM 115 Critical Thinking

HUM 120 Cultural Studies

HUM 130 Myth in Human Culture

HUM 140 History of Architecture

HUM 160 Introduction to Film

MUS 110 Music Appreciation

PHI 240 Introduction to Ethics

**Social/Behavioral Sciences Electives (pick one):**

PSY 150 General Psychology

POL 120 Political Science

SOC 210 Introduction to Sociology

SOC 213 Sociology of the Family

**Major Hours Electives (pick 15-17 credit hours):**

\*BTC 275 Industrial Microbiology

\*BTC 286 Immunological Techniques

CHM 152 General Chemistry II PHY 110/110A

PHY 110/PHY 110A Conceptual Physics/Lab OR PHY 151 College Physics I

\*BIO 280 Biotechnology

\*BTC 270 Recombinant DNA Technology

\*BTC 285 Cell Culture

\*BTC 287 Advanced Molecular Techniques

\*BTC 281 Bioprocessing Techniques

CHM 251 Organic Chemistry I

CHM 252 Organic Chemistry II

BIO 140/140A Environmental Biology/Lab

MAT 172 Precalculus Trigonometry

\*HOR 162 Applied Plant Science

\*HOR 168 Plant Propagation

SPA 111 Elementary Spanish I

\*BTC 288 Biotechnology Experience

\*Courses with an asterisk (\*) are not offered at Nash Community College and must be taken at Pitt CC.

## Dental Assisting – D45240

### *Instructional Service Agreement with Martin Community College*

The Dental Assisting curriculum prepares individuals to assist the dentist in the delivery of dental treatment and to function as integral members of the dental team while performing chair side and related office and laboratory procedures.

Course work includes instruction in general studies, biomedical sciences, and clinical practice. A combination of lecture, laboratory, and clinical experiences provide students with knowledge in infection/hazard control, radiography, dental materials, preventive dentistry, and clinical procedures.

Graduates may be eligible to take Dental Assisting National Board Examination to become Certified Dental Assistants. As a Dental Assistant II, defined by the Dental Laws of North Carolina, graduates work in dental offices and other related areas.

The Program is a full-time curriculum with entry in the fall semester only. Students should complete the program in three consecutive semesters. A diploma is granted upon completion of the one-year program.

NOTE: The Dental Assisting Diploma Program uses clock/credit hour conversion for awarding Financial Aid.

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education Requirement</b>						
ENG 102	Applied Communications II or	3	0	0		3
ENG 111	Writing or Inquiry	3	0	0		3
ENG 114	Professional Research & Reporting or	3	0	0		3
ENG 115	Oral Communication	3	0	0		3
*PSY 118	Interpersonal Psychology or	3	0	0		3
PSY 150	General Psychology	3	0	0		3
*CIS 110	Introduction to Computers or	2	2	0		3
CIS 111	Basic PC Literacy	1	2	0		2
*BIO 106	Introduction to Anat/Phys/Micro	2	2	0		3
*PSY 118	Interpersonal Psychology or	3	0	0		3
*PSY 150	General Psychology	3	0	0		3

**17-18**

**Major Core Courses**

DEN 100	Basic Orofacial Anatomy	2	0	0	2
DEN 101	Preclinical Procedures	4	6	0	7
DEN 102	Dental Materials	3	4	0	5
DEN 103	Dental Sciences	2	0	0	2
DEN 104	Dental Health Education	2	2	0	3
DEN 105	Practice Management	2	0	0	2
DEN 106	Clinical Practice I	1	0	12	5
DEN 107	Clinical Practice II	1	0	12	5
DEN 111	Infection/Hazard Control	2	0	0	2
DEN 112	Dental Radiography	2	3	0	3
					<b>34</b>

**Other Required Courses**

ACA 122	College Transfer Success	0	2	0	0	1
						<b>1</b>

**Total Semester Hour Credits for AAS Degree** **42-43**

\*Classes offered at Nash Community College

Degree granted from Martin Community College

**Dental Hygiene – A45260**

*Instructional Service Agreement with Halifax Community College*

The Dental Hygiene curriculum provides individuals with the knowledge and skills to access, plan, implement, and evaluate dental hygiene care for the individual and the community.

Students will learn to prepare the operatory, take patient histories, note abnormalities, plan care, teach oral hygiene, clean teeth, take x-rays, apply preventive agents, complete necessary chart entries, and perform other procedures related to dental hygiene care. Graduate of this program may be eligible to take national and state/regional examinations for licensure which are required to practice dental hygiene.

Employment opportunities include dental offices, clinics, schools, public health agencies, industry, and professional education.

- Achievement of competence in the following basic skills courses must be met:
- Students taking CHM 130 at Nash are also required to take CHM 130A (lab)
- A local prerequisite of BIO 094, BIO 110, BIO 111, BIO 161, or BIO 163 is required at Nash before taking BIO 168
- Reading and Writing Skills - RED 090 or DRE 097
- Math Skills - MAT 070 or DMA 050
- PSY 150 and SOC 210 can be taken to substitute SOC 240

Hrs Work

		Class	Lab	Clin	Exp	Credits
<b>General Education</b>						
*BIO 168	Anatomy and Physiology I	3	3	0		4
*BIO 169	Anatomy and Physiology II	3	3	0		4
*BIO 175	General Microbiology	2	2	0		3
*CHM 130	Gen, Org, & Biochemistry	3	0	0		3
*ENG 111	Expository Writing	3	0	0		3
*ENG 114	Prof. Research & Reporting	3	0	0		3
	or					
*ENG 112	Writing/Research in Disciplines	3	0	0		3
And COM 231	Public Speaking	3	0	0		3
*PSY 150	General Psychology	3	0	0		3
and SOC 210	Intro to Sociology	3	0	0		3
	or					
SOC 240	Social Psychology	3	0	0		3
*HUM/FA	Humanities/Fine Art Elective	3	0	0		3
						<b>30-33</b>
<b>Major Core Courses</b>						
DEN 110	Orofacial Anatomy	2	2	0		3
DEN 111	Infection/Hazard Control	2	0	0		2
DEN 112	Dental Radiography	2	3	0		3
DEN 120	Dental Hyg Preclinic Lec	2	0	0		2
DEN 121	Dental Hygiene Preclin Lab	0	6	0		2
DEN 123	Nutrition/Dental Health	2	0	0		2
DEN 124	Periodontology	2	0	0		2
DEN 125	Dental Office Emergencies	1	0	0		1
DEN 130	Dental Hygiene Theory I	2	0	0		2
DEN 131	Dental Hygiene Clinic I	0	0	9		3
DEN 140	Dental Hygiene Theory II	1	0	0		1
DEN 141	Dental Hygiene Clinic II	0	0	6		2
DEN 220	Dental Hygiene Theory III	2	0	0		2
DEN 221	Dental Hygiene Clinic III	0	0	12		4
DEN 222	General & Oral Pathology	2	0	0		2
DEN 223	Dental Pharmacology	2	0	0		2
DEN 224	Materials and Procedures	1	3	0		2
DEN 230	Dental Hygiene Theory IV	1	0	0		1
DEN 231	Dental Hygiene Clinic IV	0	0	12		4
DEN 232	Community Dental Health	2	0	3		3
DEN 233	Professional Development	2	0	0		2
						<b>47</b>
<b>Other Major Courses</b>						
DEN 125	Dental Office Emergencies	0	2	0		1
						<b>1</b>
<b>Total Semester Hour Credits for AAS Degree</b>						<b>78-81</b>

\*Classes offered at Nash Community College

Degree granted from Halifax Community College

## Healthcare Management Technology – A25200

*Instructional Service Agreement with Pitt Community College*

The Healthcare Management Technology curriculum is designed to prepare students for employment in healthcare business and financial operations. Students will gain a comprehensive understanding of the application of management principles to the healthcare environment.

The curriculum places emphasis on planning, organizing, directing, and controlling tasks related to healthcare organizational objectives including the legal and ethical environment. Emphasis is placed on the development of effective communication, managerial, and supervisory skills.

Graduates may find employment in healthcare settings including hospitals, medical offices, clinics, long-term care facilities, and insurance companies. Graduates are eligible to sit for various certification exams upon completion of the degree with a combination of a minimum of two years administrative experience. Eligible certifications include, but are not limited to, the Professional Association of Healthcare Office Managers (PAHCOM), the Healthcare Financial Management Association (HGMA), the Certified Patient Account Manager (CPAM) and the Certified Manager of Patient Accounts (CMPA) examinations.

				Hrs	Work	
		Class	Lab	Clin	Exp	Credits
<b>General Education</b>						
COM 120	Interpersonal Communication	3	0	0		3
	or					
COM 231	Public Speaking	3	0	0		3
ENG 111	Writing and Inquiry	3	0	0		3
PHI 240	Introduction to Ethics	3	0	0		3
	or					
HUM 115	Critical Thinking	3	0	0		3
	or					
MUS 110	Music Appreciation	3	0	0	0	3
MAT 143	Quantitative Literacy	3	0	0		3
	or					
MAT 152	Statistical Methods I	3	0	0		3
	or					
MAT 171	Precalculus Algebra	3	0	0		3
PSY 150	General Psychology	3	0	0		3
	or					
SOC 210	Introduction to Sociology	3	0	0		3

	or					
ECO 251	Principles of Microeconomics	3	0	0	0	3
						<b>15</b>

**Major Core Courses**

ACC 120	Principles of Financial Accounting	3	2	0		4
ACC 121	Principles of Managerial Accounting	3	2	0		4
*HMT 110	Introduction to Healthcare Mgmt.	3	0	0		3
*HMT 211	Long-term Care Administration	3	0	0		3
*HMT 212	Management of Healthcare Org.	3	0	0		3
*MED 121	Medical Terminology I and	3	0	0		3
*MED 122	Medical Terminology II	3	0	0		3
*OST 250	Long Term Coding	2	2	0		3
						<b>26</b>

**Other Major Courses**

BUS 110	Introduction to Business	3	0	0		3
*BUS 153	Human Resource Management	3	0	0		3
CIS 110	Introduction to Computers	2	2	0		3
CTS 130	Spreadsheet	2	2	0		3
BUS 151	People Skills	3	0	0	0	3
GRO 120	Gerontology	3	0	0	0	3
*HMT 210	Medical Insurance	3	0	0		3
*HMT 215	Legal Aspects of Healthcare Admin.	3	0	0		3
*WBL 110	World of Work	1	0	0		1
*WBL 112	Work Based Learning I	0	0	20		2
						<b>27</b>

**Other Required Courses**

*ACA 111	College Transfer Success	1	0	0	0	1
						<b>1</b>

**Total Semester Hour Credits for AAS Degree 69**

\*Courses with an asterisk (\*) are not offered at Nash Community College and must be taken at Pitt Community College.

You must apply and be formally admitted to the Healthcare Mgt. Technology program to take any HMT courses.

Degree granted from Pitt Community College



## Medical Sonography– A45440

*Instructional Service Agreement with Pitt Community College*

The Medical Sonography curriculum provides knowledge and clinical skills in the application of high frequency sound waves to image internal body structures.

Course work includes physics, cross-sectional anatomy, and abdominal, introductory vascular and obstetrical/gynecological sonography. Competencies are attained in identification of normal anatomy and pathological processes, use of equipment, fetal growth and development, integration of related imaging, and patient interaction skills.

Graduates of accredited programs may be eligible to take examinations in ultrasound physics and instrumentation and specialty examinations administered by the American Registry of Diagnostic Medical Sonographers and find employment in clinics, physicians' offices, mobile services, hospitals, and educational institutions.

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education</b>						
BIO 163	Basic Anatomy & Physiology	4	2	0		5
ENG 111	Writing and Inquiry	3	0	0		3
ENG 112	Argument-Based Research	3	0	0		3
PHY 110	Conceptual Physics	3	0	0		3
PHY 110A	Conceptual Physics Lab	0	2	0		1
	Humanities Elective					3
	Math Elective					4
	Social/Beh. Sciences Elective					3

**Humanities Elective:** HUM 115 or PHI 240; **Math Elective:** MAT 152 or MAT 171;

**Social/Beh. Science Elective:** PSY 150 or SOC 210

You must apply and be formally admitted to the Medical Sonography program to take any SON courses.

### Fall I

*SON 110	Introduction to Sonography	1	3	3		3
*SON 130	Abdominal Sonography I	2	3	0		3
*SON 222	Selected SON Clinical Ed	0	0	6		2
*SON 111	Sonographic Physics	3	3	0		4

### Spring I

*SON 120	SON Clinical Education I	0	0	15		5
*SON 131	Abdominal Sonography II	1	3	0		2
*SON 140	Gynecologic Sonography	2	0	0		2
*SON 250	Vascular Sonography	1	3	0		2

### Summer 1

Curriculum Programs

*SON 121	SON Clinical Education II	0	0	15	5
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**Fall II**

*SON 220	SON Clinical Education III	0	0	24	8
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*SON 225	Case Studies	0	3	0	1
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*SON 241	Obstetrical Sonography I	2	0	0	2
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**Spring II**

*SON 221	SON Clinical Education IV	0	0	24	8
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*SON 242	Obstetrical Sonography II	2	0	0	2
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*SON 289	Sonographic Topics	2	0	0	2
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**Other Required Courses**

*ACA 111	College Transfer Success	0	2	0	0	1
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ACA 122	College Transfer Success	0	2	0	0	1
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**1**

Foreign language courses (including ASL) that are not designated as approved other major hours may be included in all programs up to a maximum of 3 semester hours of credit.

**Total Semester Hour Credits for AAS Degree 76**

\*Courses with an asterisk (\*) are not offered at Nash Community College Degree granted from Pitt Community College

## Nuclear Medicine Technology– A45460

*Instructional Service Agreement with Pitt 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, or 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.

		Class	Lab	Hrs Clin	Work Exp	Credits
<b>General Education</b>						
*CHM 131	Introduction to Chemistry	3	0	0		3
*CHM 131A	Intro to Chemistry Lab	0	3	0		1
*ENG 111	Writing and Inquiry	3	0	0		3
*PSY 118	Interpersonal Psychology	3	0	0		3
	or					
*PSY 150	General Psychology	3	0	0		3
	or					
*SOC 210	Introduction to Sociology	3	0	0		3
*BIO 163	Basic Anatomy & Physiology	4	2	0		5
	or					
*BIO 168	Anatomy and Physiology I	3	3	0		4
*BIO 169	Anatomy and Physiology II	3	3	0		4
COM 120	Interpersonal Communication	3	0	0		3
	or					
*COM 231	Public Speaking	3	0	0		3
	or					
*ENG 114	Professional Research & Reporting	3	0	0		3
*HUM 115	Critical Thinking	3	0	0		3
	or					
HUM 211	Humanities I	3	0	0		3
	or					
PHI 210	History of Philosophy	3	0	0		3
	or					
PHI 240	Introduction to Ethics	3	0	0		3
	or					
REL 110	World Religions	3	0	0		3

Curriculum Programs

*CIS 110	Introduction to Computers	2	2	0	3
	or				
CIS 111	Basic PC Literacy	1	2	0	2
MAT 115	Mathematical Models	2	2	0	3
	or				
*MAT 143	Quantitative Literacy	3	0	0	3
	or				
*MAT 171	Precalculus Algebra	3	2	0	4

**Major Core Courses**

NMT 110	Introduction to Nuclear Medicine	2	0	0	2
NMT 110A	Intro to Nuclear Medicine Lab	0	3	0	1
NMT 126	Nuclear Physics	2	0	0	2
NMT132	Overview-Clinical Nuclear Medicine	2	0	6	4
NMT134	Nuclear Pharmacy	2	0	0	2
NMT 136	Health Physics	2	0	0	2
NMT 211	NMT Clinical Practice	0	0	0	21
NMT 212	Procedures for Nuclear Medicine I	2	0	0	2
NMT 212A	Procedures Nuclear Medicine Lab	0	3	0	1
NMT 214	Radiobiology	2	0	0	2
NMT 215	Non-Imaging Instrumentation	1	3	0	2
NMT 218	Computers in Nuclear Medicine	2	0	0	2
NMT 221	NMT Clinical Practice II	0	0	0	21
NMT 222	Procedures for Nuclear Medicine II	2	0	0	2
NMT 222A	ProceduresNuclear Medicine II Lab	0	3	0	1
NMT 289	Nuclear Med Tech Topics	2	3	0	3
PET 235	Cross Sectional Anatomy	3	0	0	3

**Other Required Courses**

ACA 122	College Transfer Success	0	2	0	0
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**1**

**Total Semester Hour Credits for AAS Degree**

**72**