



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 (A.E.), Associate in Science (A.S.), Associate in Arts in Teacher Preparation (A.A.T.P.), Associate in Science in Teacher Preparation (A.S.T.P.), 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

Credit Hours

AA - Associate in Arts Degree (College Transfer); Two-Year Program	60-61
AATP - Associate in Arts in Teacher Preparation (effective Spring 2022)	60-61
AE - Associate in Engineering (College Transfer); Two-Year Program	60-61
AS - Associate in Science Degree (College Transfer); Two-Year Program	60-61
ASTP - Associate in Science in Teacher Preparation (effective Spring 2022)	60-61
AGE - Associate in General Education Degree; Two-Year Program	64-76
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

COLLEGE TRANSFER

Abbreviation Degree

Degree Programs

A10100	Associate in Arts	AA	AA
A1010T	Associate in Arts in Teacher Preparation	AATP	AATP
A10300	Associate in General Education	AGE	AGE
A10400	Associate in Science	AS	AS
A1040T	Associate in Science in Teacher Preparation	ASTP	ASTP
A10500	Associate in Engineering	AE	AE

APPLIED ENGINEERING TECHNOLOGIES

Abbreviation Degree

Degree Programs

A35130	Electrical Systems Technology	ETD	AAS
A40160	Computer Engineering Technology	CET	AAS
A40200	Electronics Engineering Technology	EET	AAS
A50210	Computer-Integrated Machining (CIM)	MT	AAS
A55280	General Occupational Technology	GOT	AAS
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
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
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
C50240D	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 - Gen. 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

BUSINESS AND INFORMATION TECHNOLOGIES

Abbreviation Degree

Degree Programs

A25120	Business Administration	BA	AAS
A25310A	Med. Office Admin.: Patient Services Specialist	MOA	AAS
A25310B	Med. Office Admin.: Medical Billing and Coding	MOA	AAS
A25310C	Med. Office Admin.: Medical Auditing	MOA	AAS
A25370A	Office Admin.: Office Software Specialist	MOA	AAS
A25590A	Info. Technology: Information Systems	CTI	AAS
A25590B	Info. Technology: Networking Management	NET	AAS
A25590C	Info. Technology: Cybersecurity	SEC	AAS
A25590D	Info. Technology: Web Design and Admin	WEB	AAS
A25590E	Info. Technology: Game & Sim Programming	SGD	AAS
A25590F	Info. Technology: Healthcare Informatics	HBI	AAS
A25620	Supply Chain Management	LOG	AAS
A25800	Accounting and Finance	ACC	AAS
A30100	Advertising and Graphic Design	GRD	AAS
A30120	Broadcasting and Production Technology	BPT	AAS

Diploma Programs

D25120	Business Administration	BA	DIP
D25620	Supply Chain Management	LOG	DIP
D25800	Accounting and Finance	ACC	DIP

Certificate Programs

C25120A	Business Administration	BA	CERT
C25120B	Marketing	BA	CERT
C25120C	Budgeting/Finance	BA	CERT
C25310CH	Medical Office Administration	MOA	CERT
C25310AA	Patient Services Specialist	MOA	CERT

C25310BA	Medical Billing & Coding	MOA	CERT
C25370AA	Office Document Specialist	OA	CERT
C25590AA	Software Applications Certificate	CTI	CERT
C25590AB	Helpdesk Support Certificate	CTI	CERT
C25590AC	Data Analysis and Management 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
C25620A	Supply Chain Management	LOG	CERT
C25620B	Logistics Analysis	LOG	CERT
C25620C	Distribution Management	LOG	CERT
C25800	Accounting Fundamentals	ACC	CERT
C30100A	Advertising & Graphic Design Certificate	GRD	CERT
C30100BH	Advertising & Graphic Design Certificate	GRD	CERT
C30120A	Radio Production Technology Certificate	BPT	CERT
C30120B	Video Production Technology Certificate	BPT	CERT
C30120C	BPT Administration Certificate	BPT	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	Elec. Line Construction Technology /Advanced	ELT	CERT
C35230B	Elec. Line Construction Technology/Third Class	ELT	CERT
C35230C	Elec. Line Construction Technology/Underground	ELT	CERT

EMERGENCY MANAGEMENT

Degree Programs

A45340	Emergency Medical Science	EMS	AAS
A55240	Fire Protection Technology	FIP	AAS
A55460	Emergency Management	EM	AAS

Certificate Programs

C55460A	Emergency Management	EM	CERT
C55460B	Emergency Management - Fire	EM	CERT

HEALTH SCIENCES

Degree Programs

A45110	Associate Degree Nursing	ADN	AAS
A45380	Human Services Technology	HST	AAS
A4538B	Human Services Technology/Gerontology	GRO	AAS
A4538E	Human Services Technology/Addiction and Recovery Services	SAB	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

C45380	Case Management Certificate	HST	CERT
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LAW ENFORCEMENT & CRIMINAL JUSTICE

Degree Programs

A55180	Criminal Justice Technology	CJC	AAS
A5518A	Criminal Justice/Latent Evidence Technology	CJC	AAS

Certificate Programs

C55120	Basic Law Enforcement Training	BLET	CERT
C55180C	Criminal Justice	CJC	CERT

PUBLIC SERVICES

Degree Programs

A25110	Hospitality Management	HRM	AAS
A55140	Cosmetology	COS	AAS
A55150	Culinary Arts	CUL	AAS
A55220A	Early Childhood: Non-Transfer Pathway	ECE	AAS
A55220B	Early Childhood: Birth-Kindergarten Teacher Transfer Pathway	ECE	AAS

A55220C	Early Childhood: Non-Lin. Transfer Pathway	ECE	AAS
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Diploma Programs

D25110	Hospitality Management	HRM	DIP
D55140	Cosmetology	COS	DIP
D55150	Culinary Arts – Foodservice	FST	DIP
D55220	Early Childhood Education	ECE	DIP

Certificate Programs

C25110A	Lodging Management	HRM	CERT
C25110B	Restaurant Management	HRM	CERT
C25110C	Catering Management	HRM	CERT
C25110D	Bed and Breakfast Management	HRM	CERT
C25110E	Event Planning	HRM	CERT
C55140A	Cosmetology	COS	CERT
C55150A	Essential Culinary Skills	CUL	CERT
C55150B	Baking	CUL	CERT
C55150C	Advanced Catering for Entertaining	CUL	CERT
C55220	ECE - Early Childhood	ECE	CERT
C55220B	ECE - Teacher Associate	ECE	CERT
C55220G	ECE - Early Childhood Administration	ECE	CERT
C55220H	ECE - Infant Toddler Certificate	ECE	CERT
C55220I	ECE - School-Age Certificate	ECE	CERT
C55220KH	ECE - Early Childhood CTE Certificate	ECE	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
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
A10100	Associate in Arts	24.0101
A1010T	Associate in Arts Teacher Preparation	24.0101
A1030N	Associates in General Education Education Nursing	51.1105
A10300	Associate in General Education	24.0199
A10400	Associate in Science	24.0101
A1040T	Associate in Science Teacher Preparation	24.0101
A10500	Associate in Engineering	14.0102
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	Med. Office Admin. - 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
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
A4538E	Human Services Technology/Addiction and Recovery Services	51.1501
A45400	Medical Assisting	51.0801
A45440	Medical Sonography (Degree not awarded by NCC)	51.091

A45460	Nuclear Med. Tech. (Degree not awarded by NCC)	51.0905
A45500	Occ. Therapy Assistant (Degree not awarded by NCC)	51.0803
A45640	Physical Therapist Assistant (1+1)	51.0806
A45780	Veterinary Medical Technology	01.8301
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
A55280	General Occupational Technology	24.0102
A55460	Emergency Management	43.0302
A60160	Automotive Systems Technology	47.0604

Diplomas

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
D40160	Computer Engineering Technology	15.1201
D40200	Electronics Engineering Technology	15.0303
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

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	BA: Business Administration Certificate	52.0201
C25120B	BA: Marketing Certificate	52.0201
C25120C	BA: Budgeting/Finance Certificate	52.0201
C25310AA	MOA: Patient Services Specialist Certificate	51.0705
C25310BA	MOA: Medical Billing & Coding Certificate	51.0705
C25310CH	MOA: Medical Office Administration Certificate	51.0705
C25370AA	OA: Office Document Specialist Certificate	11.0103
C25590AA	IT: Software Applications Certificate	11.0103
C25590AB	IT: Helpdesk Support Certificate	11.0103
C25590BA	IT: Network Technician Certificate	11.0103
C25590BB	IT: Network Administrator Certificate	11.0103
C25590BC	IT: Virtualization and Cloud Computing Certificate	11.0103
C25590CA	IT: Cybersecurity Certificate	11.0103
C25590DA	IT: Website Design Certificate	11.0103
C25590EA	IT: Game and Simulation Programming Certificate	11.0103
C25590FA	IT: Healthcare Informatics Certificate	11.0103
C25620A	SCM: Supply Chain Management Certificate	52.0203
C25620B	SCM: Logistics Analysis Certificate	52.0203
C25620C	SCM: Distribution Management Certificate	52.0203
C25800	A&F: Accounting Fundamentals Certificate	52.0304
C30100A	AGD: Advertising & Graphic Design Certificate	50.0402
C30120A	BPT: Radio Production Technology Certificate	10.0202
C30120B	BPT: Video Production Technology Certificate	10.0202
C30120C	BPT: Broad. and Prod. Administration Certificate	10.0202
C35130A	EST: Electrical Wiring Certificate	46.0302
C35130B	EST: Electrical Controls Certificate	46.0302
C35130C	EST: PLC Controls Certificate	46.0302
C35130D	EST: Industrial Robotics Certificate	46.0302
C35130E	EST: Instrumentation Certificate	46.0302
C35230A	ELC: Elec. Line Cons. Tech Certificate - Advanced	46.0303
C35230B	ELC: Electric Line Construction Certificate-Third Class	46.0303
C40160A	CET: Computer Engineering Technology Certificate	15.1201
C40160B	CET: Computer Programming Certificate	15.1201
C40160C	CET: PC Build & Repair Certificate	15.1201
C40200A	EET: Basic Electronics Certificate	15.0303
C45380	HST: Case Management Certificate	51.1599
C50210A	CIM: Machine Operator Certificate	48.0503
C50210B	CIM: Computer Numerical Controlled Certificate	48.0503
C50210C	CIM: Advanced CNC Certificate	48.0503
C50210D	CIM: Robotics Machining Certificate	48.0503
C50240A	IST: Heating and Refrigeration Certificate	15.0499
C50240B	IST: Mechanical Certificate	15.0499

C50240C	IST: Machining Maintenance Certificate	15.0499
C50420A	Welding Technology – GMAW (MIG) Certificate	48.0508
C50420B	Welding Technology – SMAW (Stick) Certificate	48.0508
C50420C	Welding Technology – GTAW (TIG) Certificate	48.0508
C50420D	Welding Technology – Fabrication Certificate	48.0508
C50420E	Welding Technology - General Welding Certificate	48.0508
C50420F	Welding Technology – Basic Welding Certificate	48.0508
C55120	Basic Law Enforcement Training (Certificate)	43.0107
C55140A	Cosmetology Certificate	12.0401
C55150A	CA: Essential Culinary Skills Certificate	12.0503
C55150B	CA: Baking Certificate	12.0503
C55150C	CA: Advanced Catering for Entertaining Certificate	12.0503
C55180A	CJT: Criminal Justice Certificate	43.0104
C55220	ECE - Early Childhood Certificate	13.1210
C55220B	ECE - Teacher Associate Certificate	13.1210
C55220G	ECE - Early Childhood Administration Certificate	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 CTE Certificate	13.1210
C55460A	Emer. Mgnt. - EM Essentials Certificate	43.0302
C55460B	Emer. Mgnt. - EM and Fire Basics Certificate	43.0302
C55460C	Emer. Mgnt. - Fire Mgnt. Concentration Certificate	43.0302
C55460D	Emer. Mgnt. - Business Concentration Certificate	43.0302
C60160A	AST: Basic Automotive Systems Certificate	47.0604
C60160B	AST: Advanced Automotive Systems Certificate	47.0604
C60160C	AST: Brakes and Suspension Certificate	47.0604
C60160D	AST: Electric Certificate	47.0604
C60160E	AST: Engine Performance Certificate	47.0604

CONTINUING EDUCATION PROGRAMS

See the section titled *Continuing Education*

COLLEGE TRANSFER

ASSOCIATE IN ARTS DEGREE – A10100

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

The Comprehensive Articulation Agreement (CAA) and the Independent Comprehensive Articulation Agreement (ICAA) enables North Carolina community college graduates of two-year associate in arts programs who are admitted to constituent institutions of The University of North Carolina and to Signatory Institutions of North Carolina Independent Colleges and Universities to transfer with junior status.

Community college graduates must obtain a grade of “C” or better in each course and an overall GPA of at least 2.0 on a 4.0 scale in order to transfer with a junior status. Courses may also transfer through bilateral agreements between institutions.

General Education Core (45 SHC)

		Hrs Work				Credits
Class	Lab	Clin	Exp			
English Composition (6 SHC)						
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 120	Intro Interpersonal Communication	3	0	0	0	3
COM 231	Public Speaking	3	0	0	0	3
DRA 111	Theatre Appreciation	3	0	0	0	3
ENG 231	American Literature I	3	0	0	0	3
ENG 232	American Literature II	3	0	0	0	3
ENG 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

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

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	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

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

Other Pre-major Electives (14 SHC)

Select 14 semester hours from the list of suggested electives for AA and AS degrees classified as pre-major elective or general education courses within the Comprehensive Articulation Agreement found on page 296. In selecting electives, students should consult with their advisor in the advising center and make choices which are most appropriate for their intended major and transfer university. (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.

*One semester hour or credit may be included in a 61 SHC associate in arts program of study. The transfer of this hour is not guaranteed.

Total Semester Hour Credits for AA Degree

60-61*

ASSOCIATE IN ARTS IN TEACHER PREPARATION - A1010T

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

The Comprehensive Articulation Agreement (CAA) and the Independent Comprehensive Articulation Agreement (ICAA) enables North Carolina community college graduates of two-year associate in arts programs who are admitted to constituent institutions of The University of North Carolina and to Signatory Institutions of North Carolina Independent Colleges and Universities to transfer with junior status.

Community college graduates must obtain a grade of "C" or better in each course and an overall GPA of at least 2.7 on a 4.0 scale in order to transfer with a junior status. Courses may also transfer through bilateral agreements between institutions.

GENERAL EDUCATION (45 SHC)

	Hrs Work				
Class	Lab	Clin	Exp		Credits

English Composition (6 SHC)

The following two English composition courses are required.

ENG 111 Writing & Inquiry	3	0	0	0	3
ENG 112 Writing/Research in the Disciplines	3	0	0	0	3

Humanities/Fine Arts (9 SHC)

Select 3 courses from the following from at least 2 different disciplines

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 120 Introduction to Interpersonal	3	0	0	0	3
COM 231 Public Speaking	3	0	0	0	3
DRA 111 Theatre Appreciation	3	0	0	0	3
ENG 231 American Literature I	3	0	0	0	3
ENG 232 American Literature II	3	0	0	0	3
ENG 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 Introduction to Ethics	3	0	0	0	3

Social/Behavioral Sciences (6 SHC)

Select 2 courses from the following from 2 different disciplines (6 SHC):

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

Mathematics (3-4 SHC)

Select one course from the following:

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

Natural Sciences (4 SHC)

Select 4 SHC from the following course(s):

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 Lab I	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

ADDITIONAL GENERAL EDUCATION HOURS (17-18 SHC)**Other Required General Education (3 SHC)**

The following course is required:

SOC 225 Social Diversity	3	0	0	0	3
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An additional 14-15 SHC of courses should be selected from courses classified as general education within the Comprehensive Articulation Agreement. Students should select these courses based on their intended major and transfer university. 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 General Education Hours Required**45****OTHER REQUIRED HOURS (15 SHC)**

The following courses are required:

Academic Transition (1 SHC)

ACA 122 College Transfer Success Education (14 SHC)	0	2	0	0	1
EDU 187 Teaching and Learning for All*	3	3	0	0	4
EDU 216 Foundations of Education	3	0	0	0	3
EDU 279 Literacy Development and Instruction	3	3	0	0	4
EDU 250 Teacher Licensure Preparation	3	0	0	0	3

*Students who have completed Teacher Cadet or Teaching as a Profession courses in high school with a B or better may substitute that course for EDU 187 Teaching and Learning for All. High school faculty must meet transfer level qualifications as established by SACSCOC or other accrediting body.

*One semester hour of credit may be included in a 61 SHC associate in arts program of study. The transfer of this hour is not guaranteed.

Total Semester Hours Credit (SHC) for AATP Degree

60-61*

PARTNERSHIP TEACH

Partnership Teach 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. Contact the advising center for more information.

**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 associate in general education curriculum program shall include a minimum of 15 semester hours of credit from general education curriculum courses selected from the Combined Course Library, including six hours in communications, three hours in humanities/fine arts, three hours in social/behavioral sciences, and three hours in natural sciences or mathematics. Courses must be at the 110-199 or 210-299 level.

Other Major Hours (49-50 SHC)

Other major 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. Selected topics or seminar courses may be included in a program of study up to a maximum of 3 semester hours credit.

Total Semester Hour Credits for AGE Degree

64-65

ASSOCIATE IN SCIENCE DEGREE – A10400

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

The Comprehensive Articulation Agreement (CAA) and the Independent Comprehensive Articulation Agreement (ICAA) enables North Carolina community college graduates of two-year associate in science programs who are admitted to constituent institutions of The University of North Carolina and to Signatory Institutions of North Carolina Independent Colleges and Universities to transfer with junior status.

Community college graduates must obtain a grade of “C” or better in each course and an overall GPA of at least 2.0 on a 4.0 scale in order to transfer with a junior status. Courses may also transfer through bilateral agreements between institutions.

General Education Core (45 SHC)

		Hrs Work				Credits
		Class	Lab	Clin	Exp	
English Composition (6 SHC)						
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 120	Intro Interpersonal Communication	3	0	0	0	3
COM 231	Public Speaking	3	0	0	0	3
DRA 111	Theatre Appreciation	3	0	0	0	3
ENG 231	American Literature I	3	0	0	0	3
ENG 232	American Literature II	3	0	0	0	3
ENG 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	Introduction to Sociology	3	0	0	0	3

Mathematics (8 SHC)

Select 2 courses from the following list:

MAT 171	Precalculus Algebra	3	2	0	0	4
MAT 172	Precalculus Trigonometry	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

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	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	3	2	0	0	4

	and					
PHY 152	College Physics II	3	2	0	0	4
PHY 251	General Physics I	3	3	0	0	4
	and					
PHY 252	General Physics II	3	3	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 AA and AS degrees classified as pre-major elective or general education courses within the Comprehensive Articulation Agreement found on page 296. In selecting electives, students should consult with their advisor in the advising center and make choices which are most appropriate for their intended major and transfer university. (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.

*One semester hour or credit may be included in a 61 SHC associate in arts program of study. The transfer of this hour is not guaranteed.

Total Semester Hour Credits for AS Degree

60-61*

Associate in Science in Teacher Preparation - A1040T

(Pending SACSCOC approval, effective Spring 2022)

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

The Comprehensive Articulation Agreement (CAA) and the Independent Comprehensive Articulation Agreement (ICAA) enables North Carolina community college

graduates of two-year associate in science programs who are admitted to constituent institutions of The University of North Carolina and to Signatory Institutions of North Carolina Independent Colleges and Universities to transfer with junior status.

Community college graduates must obtain a grade of “C” or better in each course and an overall GPA of at least 2.7 on a 4.0 scale in order to transfer with a junior status. Courses may also transfer through bilateral agreements between institutions.

GENERAL EDUCATION (45 SHC)

	Hrs Work				
	Class	Lab	Clin	Exp	Credits

English Composition (6 SHC)

The following two English composition courses are required.

ENG 111 Writing & Inquiry	3	0	0	0	3
ENG 112 Writing/Research in the Disciplines	3	0	0	0	3

Humanities/Fine Arts (6 SHC)

Select 2 courses from the following from at least 2 different disciplines (6 SHC)

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 120 Introduction to Interpersonal	3	0	0	0	3
COM 231 Public Speaking	3	0	0	0	3
DRA 111 Theatre Appreciation	3	0	0	0	3
ENG 231 American Literature I	3	0	0	0	3
ENG 232 American Literature II	3	0	0	0	3
ENG 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 Introduction to Ethics	3	0	0	0	3

Social/Behavioral Sciences (3 SHC)

Select 1 course from the following:

ECO 251 Principles of Microeconomics	3	0	0	0	3
ECO 252 Principles of Macroeconomics	3	0	0	0	3
HIS 111 World Civilizations I	3	0	0	0	3
HIS 112 World Civilizations II	3	0	0	0	3
HIS 131 American History I	3	0	0	0	3
HIS 132 American History II	3	0	0	0	3
POL 120 American Government	3	0	0	0	3

PSY 150 General Psychology	3	0	0	0	3
SOC 210 Introduction to Sociology	3	0	0	0	3

Math (8 SHC)

Select 2 courses from the following:

MAT 171 Pre-calculus Algebra	3	2	0	0	4
MAT 172 Pre-calculus Trigonometry	3	2	0	0	4
MAT 263 Brief Calculus	3	2	0	0	4
MAT 271 Calculus	3	2	0	0	4
MAT 272 Calculus II	3	2	0	0	4

Natural Sciences (8 SHC)

Select 8 SHC from the following sets of course(s):

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	2	0	0	4
PHY 152 College Physics II	3	2	0	0	4
PHY 251 General Physics I and	3	3	0	0	4
PHY 252 General Physics II	3	3	0	0	4

ADDITIONAL GENERAL EDUCATION HOURS (17-18 SHC)

Other Required General Education (3 SHC)

The following course is required:

SOC 225 Social Diversity	3	0	0	0	3
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An additional 14-15 SHC of courses should be selected from courses classified as general education within the Comprehensive Articulation Agreement. Students should select these courses based on their intended major and transfer university. 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 General Education Hours Required**45****OTHER REQUIRED HOURS (15 SHC)**

The following courses are required:

Academic Transition (1 SHC)

ACA 122 College Transfer Success	0	2	0	0	1
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Education (14 SHC)

EDU 187 Teaching and Learning for All*	3	3	0	0	4
EDU 216 Foundations of Education	3	0	0	0	3
EDU 279 Literacy Development and Instruction	3	3	0	0	4
EDU 250 Teacher Licensure Preparation	3	0	0	0	3

*Students who have completed Teacher Cadet or Teaching as a Profession courses in high school with a B or better may substitute that course for EDU 187 Teaching and Learning for All. High school faculty must meet transfer level qualifications as established by SACSCOC or other accrediting body.

*One semester hour of credit may be included in a 61 SHC associate in arts program of study. The transfer of this hour is not guaranteed.

Total Semester Hours Credit (SHC) for ASTP Degree**60-61*****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 (45-46 SHC)

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
English Composition (6 SHC)						
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 General Education (3-4 SHC)

BIO 111	General Biology I	3	3	0	0	4
CHM 152	General Chemistry II	3	3	0	0	4
COM 110	Introduction to Communication	3	0	0	0	3
COM 231	Public Speaking	3	0	0	0	3
ECO 252	Principles of Macroeconomics	3	0	0	0	3
GEL 111	Geology	3	2	0	0	4
HUM 110	Technology and Society	3	0	0	0	3
PHI 240	Introduction to Ethics	3	0	0	0	3

Other Required Courses (14-15 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 (11-12 SHC)

Select 11-12 SHC of courses from the following courses classified as pre-major, elective, or general education courses within the Comprehensive Articulation Agreement. (Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.)

BIO 111	General Biology I	3	3	0	0	4
CHM 152	General Chemistry II	3	3	0	0	4
CHM 251	Organic Chemistry I	3	3	0	0	4
CHM 252	Organic Chemistry II	3	3	0	0	4
COM 110	Introduction to Communication	3	0	0	0	3
COM 231	Public Speaking	3	0	0	0	3
CSC 134	C++ Programming	2	3	0	0	3

Curriculum Programs

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 210	Intro to Electrical/Computer Eng. Lab	1	3	0	0	2
EGR 212	Logic System Design I	3	0	0	0	3
EGR 214	Numerical Methods for Engineers	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
GEL 111	Geology	3	2	0	0	4
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.

**One semester hour of credit may be included in a 61 SHC associate in engineering program of study. The transfer of this hour is not guaranteed.

Total Semester Hour Credits for AE Degree

60-61

ASSOCIATE IN ARTS (AA), ASSOCIATE IN ARTS TEACHER PREPARATION (AATP), ASSOCIATE IN ENGINEERING (AE), ASSOCIATE IN GENERAL EDUCATION (AGE), ASSOCIATE IN SCIENCE (AS), AND ASSOCIATE IN SCIENCE TEACHER PREPARATION (ASTP) DEGREE

SUGGESTED PRE-MAJOR ELECTIVES

*Denotes General Education Courses

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
<i>Behavioral and Social Sciences</i>						
*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	3	0	0	0	3
*GEO 111	World Regional Geography	3	0	0	0	3
*HIS 111	World Civilizations I	3	0	0	0	3
*HIS 112	World Civilizations II	3	0	0	0	3
HIS 116	Current World Problems	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 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 220	International Relations	3	0	0	0	3
*PSY 150	General 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

Curriculum Programs

*SOC 225	Social Diversity	3	0	0	0	3
*SOC 240	Social Psychology	3	0	0	0	3
SOC 242	Sociology of Deviance	3	0	0	0	3
*General Education						

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
<i>Business Administration</i>						
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				
		Class	Lab	Clin	Exp	Credits
<i>Communication</i>						
*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 231	Public Speaking	3	0	0	0	3
COM 251	Debate I	3	0	0	0	3
*General Education						

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
<i>Computer and Mathematics Science</i>						
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
CSC 249	Data Structure and Algorithms	2	3	0	0	3
CSC 251	Advanced JAVA Programming	2	3	0	0	3
CTS 115	Info Systems Business Concepts	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
*General Education						

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
<i>Criminal Justice</i>						
CJC 111	Introduction to Criminal Justice	3	0	0	0	3
CJC 112	Criminology	3	0	0	0	3
CJC 121	Law Enforcement Operations	3	0	0	0	3
CJC 141	Corrections	3	0	0	0	3
CJC 212	Ethics and Community Relations	3	0	0	0	3

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
<i>Education</i>						
EDU 216	Foundations of Education	3	0	0	0	4

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
<i>Engineering</i>						
DFT 170	Engineering Graphics	2	2	0	0	3
EGR 150	Introduction to Engineering	1	2	0	0	2
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 214	Numerical Methods for Engineers	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

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
<i>Fine Arts/Humanities</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
*DRA 111	Theatre Appreciation	3	0	0	0	3

Curriculum Programs

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
*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 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
*PHI 215	Philosophical Issues	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 211	Intermediate Spanish I	3	0	0	0	3
*SPA 212	Intermediate Spanish II	3	0	0	0	3

*General Education

Class	Lab	Hrs Work			Credits
		Clin	Exp		

Health and Physical Education

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	1	2	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

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

		Hrs Work			
Class	Lab	Clin	Exp	Credits	

Natural Sciences

*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	3
*CHM 131A	Introduction to Chemistry Lab	0	3	0	0	1
*CHM 151	General Chemistry I	3	3	0	0	4
*CHM 152	General Chemistry II	3	3	0	0	4
*CHM 251	Organic Chemistry I	3	3	0	0	4
*CHM 252	Organic Chemistry II	3	3	0	0	4
*GEL 111	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
*General Education						

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.

APPLIED SCIENCE

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.

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education Courses						
COM 110	Introduction to 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
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
ECO 251	Principles of Microeconomics	3	0	0	0	3
	or					
ECO 252	Principles of Macroeconomics	3	0	0	0	3
						18
Technical Core Courses						
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
						20
Required Subject Area - Accounting						
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
						9
Other Major Courses						
ACC 110	Ten Key Skills	0	2	0	0	1
ACC 150	Accounting Software App	1	3	0	0	2
ACC 180	Practices in Bookkeeping	3	0	0	0	3
ACC 221	Intermediate Accounting II	3	2	0	0	4
BUS 110	Introduction to Business	3	0	0	0	3
BUS 137	Principles of Management	3	0	0	0	3

BUS 151	People Skills or	3	0	0	0	3
BUS 240	Business Ethics	3	0	0	0	3
BUS 238	Integrated Management	3	0	0	0	3
						22

Other Required Course

ACA 122	College Transfer Success	0	2	0	0	1
						1
Total Semester Hour Credits for AAS Degree						70

ACCOUNTING AND FINANCE DIPLOMA – D25800

		Hrs Work				Credits
		Class	Lab	Clin	Exp	
General Education Courses						
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
						6

Major Core Courses

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

Other Major Courses

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

ACCOUNTING FUNDAMENTALS – C25800

		Hrs Work				Credits
		Class	Lab	Clin	Exp	
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
Total Semester Hour Credits for Certificate						13

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 multi-media 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.

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education Courses						
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 143	Quantitative Literacy	2	2	0	0	3
or						
MAT 171	Precalculus Algebra	3	2	0	0	4
SOC/BEH	Elective	3	0	0	0	3
						15-16

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
						29

Other Major Courses

CIS 110	Introduction to Computers	2	2	0	0	3
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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	0	10	1
WEB 111	Intro. to Web Graphics	2	2	0	0	3
WEB 140	Web Development Tools	2	3	0	0	3
						24

Other Required Courses

ACA 122	College Transfer Success	0	2	0	0	1
						1

Total Semester Hour Credits for AAS Degree **69-70**

HUM/FA Elective (Select 1 course)

ART 111, ART 114, ART 115, DRA 111, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 261, ENG 262, HUM 110, HUM 115, HUM 120, HUM 130, HUM 150, HUM 160, HUM 180, HUM 211, HUM 212, MUS 110, MUS 112, PHI 215, PHI 220, PHI 230, PHI 240, REL 110, REL 211, REL 212

SOC/BEH Elective (Select 1 course)

ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, HIS 111, HIS 112, HIS 121, 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

ADVERTISING AND GRAPHIC DESIGN CERTIFICATE - C30100A

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
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 - C30100BH

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
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

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.

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education Courses						
CHM 130	General, Organic & Biochemistry	3	0	0	0	3
CHM 130A	General, Organic & Biochemistry (Lab)	0	2	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

42-43**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

15**Other Required Courses**

ACA 220	Professional Transition	1	0	0	0	1
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1**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.

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

Total Semester Hour Credits for Graduation**69-70****HUM/FA Elective (Select 1 course)**

ART 111, ART 114, ART 115, DRA 111, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 261, ENG 262, HUM 110, HUM 115, HUM 120, HUM 130, HUM 150, HUM 160, HUM 180, HUM 211, HUM 212, MUS 110, MUS 112, PHI 215, PHI 220, PHI 230, PHI 240, REL 110, REL 211, REL 212

SOC/BEH Elective (Select 1 course)

ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, HIS 111, HIS 112, HIS 121, 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

AUTOMOTIVE SYSTEMS TECHNOLOGY DIPLOMA – D60160

		Hrs Work				Credits
		Class	Lab	Clin	Exp	
General Education Courses						
ENG 110	Freshman Composition	3	0	0	0	3
	or					
ENG 111	Writing and Inquiry	3	0	0	0	3
MAT 110	Mathematical Measurement	2	2	0	0	3
	or					
MAT 121	Algebra/Trigonometry I	2	2	0	0	3
						6
Technical Core Courses						
TRN 110	Intro to Transport Tech	1	2	0	0	2
TRN 120	Basic Transp Electricity	4	3	0	0	5
TRN 145	Adv Transp Electronics	2	3	0	0	3
						10
Program Major Courses						
AUT 116	Engine Repair	2	3	0	0	3
AUT 141	Suspension and Steering Sys	2	3	0	0	3
AUT 151	Brake Systems	2	3	0	0	3
AUT 181	Engine Performance 1	2	3	0	0	3
						12
Other Major Courses						
AUT 141A	Suspension and Steering Lab	0	3	0	0	1
AUT 151A	Brakes Systems Lab	0	3	0	0	1
AUT 163	Advanced Auto Electricity	2	3	0	0	3
AUT 183	Engine Performance II	2	6	0	0	4
AUT 212	Auto Shop Management	3	0	0	0	3

AUT 221	Auto Transm/Transaxles	2	3	0	0	3
15						
Elective (choose 4 hours from the list below)						
AUT 114	Safety and Emissions	1	2	0	0	2
AUT 163A	Advanced Auto Electricity Lab	0	3	0	0	1
AUT 181A	Engine Performance I Lab	0	3	0	0	1
WBL 112	Work Based Learning I	0	0	0	20	2
TRN 120A	Basic Transp Electricity Lab	0	3	0	0	1
TRN 130	Intro. to Sustainable Transp	2	2	0	0	3
TRN 140	Transp Climate Control	1	2	0	0	2
TRN 140A	Transp Climate Cont Lab	1	2	0	0	2
4						
Total Hours for Graduation						
47						

BASIC AUTOMOTIVE SYSTEMS CERTIFICATE – C60160A

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

ADVANCED AUTOMOTIVE SYSTEMS CERTIFICATE – C60160B

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
Technical Core Courses						
TRN 145	Adv Transp Electronics	2	2	0	0	3
3						
Major Core Courses						
AUT 181	Engine Performance I	2	3	0	0	3
3						

Other Major Courses

AUT 163	Advanced Auto Electricity	2	3	0	0	3
AUT 183	Engine Performance II	2	6	0	0	4
AUT 221	Auto Trans/Transaxles	2	3	0	0	3

10

Total Hours for Graduation

16

AUTOMOTIVE SYSTEMS - BRAKES AND SUSPENSION CERTIFICATE - C60160C

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
Technical Core Courses						
TRN 110	Intro to Transport Tech	1	2	0	0	2
						2

Program Major Courses

AUT 141	Suspension and Steering Sys	2	3	0	0	3
AUT 151	Brake Systems	2	3	0	0	3

6

Other Major Courses

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

5

Total Semester Hour Credits for Certificate

13

AUTOMOTIVE SYSTEMS - ELECTRICAL - CERTIFICATE - C60160D

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

Other Major Courses

AUT 163	Advanced Auto Electricity	2	3	0	0	3
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3

Other Required Courses

AUT 163A	Advanced Auto Electricity Lab	0	3	0	0	1
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1

Total Semester Hour Credits for Certificate

12

AUTOMOTIVE SYSTEMS - ENGINE PERFORMANCE CERTIFICATE - C60160E

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
Program Major Courses						
AUT 181	Engine Performance I	2	3	0	0	3
TRN 110	Intro to Transport Tech	1	2	0	0	2
						5
Other Major Courses						
AUT 183	Engine Performance II	2	6	0	0	4
AUT 116	Engine Repair	2	3	0	0	3
						7
Other Required Courses						
AUT 181A	Engine Performance I Lab	0	3	0	0	1
						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.

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
Major Core Courses						
CJC 100	Basic Law Enforcement Training	9	30	0	0	20
Total Semester Hour Credits for Certificate						20

BROADCASTING AND PRODUCTION TECHNOLOGY - A30120

The Broadcasting and 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.

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education Courses						
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 (HUM 160, Intro to Film preferred)	2	2	0	0	3
MAT 143	Quantitative Literacy	2	2	0	0	3
PSY 150	General Psychology	3	0	0	0	3
						15
Major Core Courses						
BPT 110	Intro to Broadcasting	3	0	0	0	3
BPT 111	Broadcast Law and Ethics	3	0	0	0	3
BPT 112	Broadcast Writing	3	2	0	0	4
BPT 113	Broadcast Sales	3	0	0	0	3
						13
Other Major Courses						
BPT 131	Audio/Radio Production I	2	6	0	0	4
BPT 132	Audio/Radio Production II	2	6	0	0	4
BPT 135	Radio Performance I	0	6	0	0	2
BPT 231	Video/TV Production I	2	6	0	0	4
BPT 232	Video/TV Production II	2	6	0	0	4
BPT 235	TV Performance I	0	6	0	0	2
BPT 250	Institutional Video	2	3	0	0	3
BPT 285	Broadcast Production Capstone	1	6	0	0	3
COM 231	Public Speaking	3	0	0	0	3
FVP 240	Intro to Screenwriting	3	0	0	0	3
WEB 111	Intro to Web Graphics	2	2	0	0	3
						35
Other Required Courses						
ACA 122	College Transfer Success	0	2	0	0	1
						1
Total Semester Hours for AAS Degree						64

HUM/FA Elective (Select 1 course)

ART 111, ART 114, ART 115, DRA 111, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 261, ENG 262, HUM 110, HUM 115, HUM 120, HUM 130, HUM 150, HUM 160, HUM 180, HUM 211, HUM 212, MUS 110, MUS 112, PHI 215, PHI 220, PHI 230, PHI 240, REL 110, REL 211, REL 212

RADIO PRODUCTION TECHNOLOGY CERTIFICATE - C30120A

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

VIDEO PRODUCTION TECHNOLOGY CERTIFICATE - C30120B

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

BROADCASTING AND PRODUCTION ADMINISTRATION CERTIFICATE - C30120C

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

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 life-long learning. Graduates are prepared for employment opportunities in government agencies, financial institutions, and large to small business or industry.

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education Courses						
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
						18
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
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
						12
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
						13
Major Elective (Pick One)						
(ACC 140, ACC 180, ETR 210, LOG 110, SPA 120)						2-3
						15-16

Other Required Courses

ACA 122	College Transfer Success	0	2	0	0	1
						1

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

BUSINESS ADMINISTRATION DIPLOMA – D25120

		Hrs Work				Credits
		Class	Lab	Clin	Exp	
General Education Courses						
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
						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 or	3	0	0	0	3
ECO 252	Principles of Macroeconomics	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 Diploma **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
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 micro-miniature 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.

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education						
COM 110	Intro. to Communication	3	0	0	0	3
	or					
COM 120	Intro Interpersonal Communication	3	0	0	0	3
COM 231	Public Speaking	3	0	0	0	3
ENG 111	Writing and Inquiry	3	0	0	0	3
MAT121	Algebra/Trigonometry I	2	2	0	0	3
HUM/FA	Elective	3	0	0	0	3
SOC/BEH	Elective	3	0	0	0	3
						15

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
						12

Program Major Courses

CET 111	Computer Upgrade/Repair I	2	3	0	0	3
CET 211	Computer Upgrade/Repair II	2	3	0	0	3
CSC 151	Java Programming	2	3	0	0	3
ELC 235	Data Communication Sys.	3	3	0	0	4
						13

Other Major Courses

CET 130	Operating Systems Prin.	2	3	0	0	3
CET 251	Software Eng. Principles	3	3	0	0	4
CET 293	Selected Topic Seminar	2	3	0	0	3
CSC 143	Object-Oriented Prog.	2	3	0	0	3
CSC 251	Adv. 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
ELN 232	Intro. to Microprocessors	3	3	0	0	4
ELN 237	Local Area Networks	2	3	0	0	3
ELN 238	Advanced LANs 2	2	3	0	0	3
CET 245	Internet Servers 2	2	3	0	0	3
						32

Other Required Courses

ACA 122	College Transfer Success	0	2	0	0	1
						1

Total Hours for Graduation **73**

HUM/FA Elective (Select 1 course)

ART 111, ART 114, ART 115, DRA 111, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 261, ENG 262, HUM 110, HUM 115, HUM 120, HUM 130, HUM 150, HUM 160, HUM 180, HUM 211, HUM 212, MUS 110, MUS 112, PHI 215, PHI 220, PHI 230, PHI 240, REL 110, REL 211, REL 212

SOC/BEH Elective (Select 1 course)

ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, HIS 111, HIS 112, HIS 121, 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

COMPUTER ENGINEERING TECHNOLOGY DIPLOMA – D40160

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education						
ENG 111	Writing and Inquiry	3	0	0	0	3
MAT 121	Algebra/Trigonometry I	2	2	0	0	3
						6

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

12

Program Major Courses

CET 111	Computer Upgrade/Repair I	2	3	0	0	3
CET 211	Computer Upgrade/Repair II	2	3	0	0	3
CSC 151	Java Programming	2	3	0	0	3
ELN 235	Data Communication Sys.	3	3	0	0	4

13

Other Major Courses

EGR 125	Appl Software for Tech	1	2	0	0	2
ELC 131A	Circuit Analysis I Lab	0	3	0	0	1
ELN 232	Intro. to Microprocessors	3	3	0	0	4
ELN 237	Local Area Networks	2	3	0	0	3

10

Total Hours for Graduation

41

**COMPUTER ENGINEERING TECHNOLOGY -
NETWORKING CERTIFICATE – C40160A**

		Hrs Work				
		Class	Lab	Clin	Exp	Credits

Program Major Courses

ELN 235	Data Communication Sys.	3	3	0	0	4
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4

Other Major Courses

CET 245	Internet Servers	2	3	0	0	3
EGR 125	Appl Software for Tech	1	2	0	0	2
ELN 237	Local Area Networks	2	3	0	0	3
ELN 238	Advanced LANs	2	3	0	0	3

11

Total Hours for Graduation

15

**COMPUTER ENGINEERING TECHNOLOGY -
COMPUTER PROGRAMMING CERTIFICATE - C40160B**

		Hrs Work				
		Class	Lab	Clin	Exp	Credits

Program Major Courses

CSC 151	Java Programming	2	3	0	0	3
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3

Other Major Courses

EGR 125	Appl Software for Tech	1	2	0	0	2
CET 251	Software Eng Principles	3	3	0	0	4
CSC 143	Object-Oriented Programming	2	3	0	0	3
CSC 251	Adv Java Programming	2	3	0	0	3
						12
Total Hours for Graduation						15

**COMPUTER ENGINEERING TECHNOLOGY -
PC BUILD AND REPAIR CERTIFICATE – C40160C**

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

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.

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education						
COM 110	Introduction to Communication	3	0	0	0	3
	or					
COM 120	Intro Interpersonal Communication	3	0	0	0	3
	or					

Curriculum Programs

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
MAT 121	Algebra/Trigonometry I	2	2	0	0	3
	or					
MAT 171	Precalculus Algebra	3	2	0	0	4
HUM/FA	Humanities/Fine Arts Core Elective	3	0	0	0	3
SOC/BEH	Social/Behavioral Sci. Core Elective	3	0	0	0	3

16

Major Core Courses

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

12

Other Major Courses

DFT 119	Basic CAD	1	2	0	0	2
ISC 112	Industrial Safety	2	0	0	0	2
MAC 121	Introduction to CNC	2	0	0	0	2
MAC 122	CNC Turning	1	3	0	0	2
MAC 141A	Machining Appl I Lab	0	6	0	0	2
MAC 142A	Machining Appl II Lab	0	6	0	0	2
MAC 143	Machining Applications III	2	6	0	0	4
MAC 151	Machining Calculations	1	2	0	0	2
MAC 152	Adv. Machining Calculations	1	2	0	0	2
MAC 171	Measure/Material & Safety	0	2	0	0	1
MAC 224	Advanced CNC Milling	1	3	0	0	2
MAC 226	CNC EDM Machining	1	3	0	0	2
MAC 241	Jigs and Fixtures I	2	6	0	0	4
MEC 231	Comp-Aided Manufact. I	1	4	0	0	3
MEC 232	Comp-Aided Manufact. II	1	4	0	0	3

35

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

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

WLD 151	Fabrication I	2	6	0	0	3
WLD 251	Fabrication II	1	6	0	0	3
						10

Other Required Courses

ACA 122	College Transfer Success	0	2	0	0	1
						1

Total Semester Hour Credits for AAS Degree **73**

HUM/FA Elective (Select 1 course)

ART 111, ART 114, ART 115, DRA 111, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 261, ENG 262, HUM 110, HUM 115, HUM 120, HUM 130, HUM 150, HUM 160, HUM 180, HUM 211, HUM 212, MUS 110, MUS 112, PHI 215, PHI 220, PHI 230, PHI 240, REL 110, REL 211, REL 212

SOC/BEH Elective (Select 1 course)

ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, HIS 111, HIS 112, HIS 121, 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

COMPUTER-INTEGRATED MACHINING DIPLOMA – D50210

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education Courses						
ENG 110	Freshman Composition	3	0	0	0	3
or						
ENG 111	Writing and Inquiry	3	0	0	0	3
MAT 110	Mathematical Measurement	2	2	0	0	3
or						
MAT 121	Algebra/Trigonometry I	2	2	0	0	3
						6
Major Core Courses						
BPR 111	Print Reading	1	2	0	0	2
MAC 124	CNC Milling	1	3	0	0	2
MAC 141	Machining Applications I	2	6	0	0	4
MAC 142	Machining Applications II	2	6	0	0	4
						12
Other Major Courses						
DFT 119	Basic CAD	1	2	0	0	2
ISC 112	Industrial Safety	2	0	0	0	2
MAC 121	Introduction to CNC	2	0	0	0	2
MAC 122	CNC Turning	1	3	0	0	2

MAC 141A	Machining Appl I Lab	0	6	0	0	2
MAC 142A	Machining Appl II Lab	0	6	0	0	2
MAC 143	Machining Applications III	2	6	0	0	4
MAC 151	Machining Calculations	1	2	0	0	2
MAC 152	Adv. Machining Calculations	1	2	0	0	2
MAC 171	Measure/Material & Safety	0	2	0	0	1

21**Total Semester Hour Credits for Diploma****39**

COMPUTER-INTEGRATED MACHINING MACHINE OPERATOR CERTIFICATE – C50210A

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

Other Major Courses

MAC 121	Introduction to CNC	2	0	0	0	2
MAC 141A	Machining Appl I Lab	0	6	0	0	2
MAC 151	Machining Calculations	1	2	0	0	2
MAC 171	Measure/Material & Safety	0	2	0	0	1
						7

Total Semester Hour Credits for Certificate**13**

COMPUTER-INTEGRATED MACHINING – COMPUTER NUMERICAL CONTROLLED CERTIFICATE – C50210B

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

Other Major Courses

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

11**Total Semester Hour Credits for Certificate****13**

COMPUTER-INTEGRATED MACHINING – ADVANCED CNC CERTIFICATE C50210C

		Hrs Work				Credits
		Class	Lab	Clin	Exp	
Other Major Courses						
ISC 112	Industrial Safety	2	0	0	0	2
MAC 222	Advanced CNC Turning	1	3	0	0	2
MAC 224	Advanced CNC Milling	1	3	0	0	2
MAC 234	Adv. Four/Five-Axis Machining	2	3	0	0	3
MEC 232	Computer Aided Manufacturing II	1	4	0	0	3
Total Semester Hour Credits for Certificate						12

COMPUTER-INTEGRATED MACHINING – ROBOTICS MACHINING CERTIFICATE – C50210D

		Hrs Work				Credits
		Class	Lab	Clin	Exp	
Major Core Courses						
MAC 124	CNC Milling	1	3	0	0	2
						2
Other Major Courses						
ATR 280	Robotics Fundamentals	3	2	0	0	4
ATR 281	Automated Manufacturing	3	2	0	0	4
DFT 119	Basic CAD	1	2	0	0	2
MAC 122	CNC Turning	1	3	0	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.

		Hrs Work				Credits
		Class	Lab	Clin	Exp	
General Education Courses						
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
						15

Major Core Courses

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
						34

Other Major Courses

BUS 110	Intro. to Business	3	0	0	0	3
CIS 110	Intro. to Computers	2	2	0	0	3
COS 223	Contemporary Hair Coloring	1	3	0	0	2
COS 118	Salon IV	0	21	0	0	7
						15

Other Required Courses

ACA 122	College Transfer Success	0	2	0	0	1
						1

Total Semester Hour Credits for AAS Degree **65**

HUM/FA Elective (Select 1 course)

ART 111, ART 114, ART 115, DRA 111, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 261, ENG 262, HUM 110, HUM 115, HUM 120, HUM 130, HUM 150, HUM 160, HUM 180, HUM 211, HUM 212, MUS 110, MUS 112, PHI 215, PHI 220, PHI 230, PHI 240, REL 110, REL 211, REL 212

COSMETOLOGY DIPLOMA – D55140

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education Courses						
ENG 111	Writing & Inquiry	3	0	0	0	3
PSY 150	General Psychology	3	0	0	0	3
						6
Major Core Courses						
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
						41
Related Course Options: COS 117, COS Concepts IV		2	0	0	0	2

Total Semester Hour Credits for Diploma **47**

COSMETOLOGY CERTIFICATE – C55140A

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
Major Core Courses						
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 223	Contemporary Hair Coloring	1	3	0	0	2
						34

Total Semester Hour Credits for Certificate

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.

		Hrs Work				Credits
		Class	Lab	Clin	Exp	
General Education						
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
						1

Total Semester Hour Credits for AAS Degree **72-73**

CRIMINAL JUSTICE CERTIFICATE – C55180A

		Hrs Work				
		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 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.

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
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
						15

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
						22

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 I	2	2	0	0	3
						29

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 222, 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
						1

Total Semester Hour Credits for AAS Degree **67**

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.

		Hrs Work				Credits
		Class	Lab	Clin	Exp	
General Education						
COM 110	Introduction to Communication	3	0	0	0	3
	or					
COM 120	Intro Interpersonal 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 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
						15
Major Core Courses						
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
						30

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
						26

Other Required Courses

ACA 122	College Transfer Success	0	2	0	0	1
CIS 110	Introduction to Computers	2	2	0	0	3
						4

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

HUM/FA Elective (Select 1 course)

ART 111, ART 114, ART 115, DRA 111, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 261, ENG 262, HUM 110, HUM 115, HUM 120, HUM 130, HUM 150, HUM 160, HUM 180, HUM 211, HUM 212, MUS 110, MUS 112, PHI 215, PHI 220, PHI 230, PHI 240, REL 110, REL 211, REL 212

CULINARY ARTS - FOODSERVICE DIPLOMA – D55150

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education						
COM 110	Introduction to Communication	3	0	0	0	3
	or					
COM 120	Intro Interpersonal 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
						6

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
25						

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
7						

Total Semester Hour Credits for Diploma **38**

ESSENTIAL CULINARY SKILLS CERTIFICATE– C55150A

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

Total Semester Hour Credits for Certificate **15**

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

Total Semester Hour Credits for Certificate **13**

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

Total Semester Hour Credits for Certificate **13**

EARLY CHILDHOOD EDUCATION – A55220A (NON-TRANSFER)

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. Early childhood graduates must obtain a grade of "C" or better in each course in order to progress to a subsequent course and fulfill graduation requirements. Students enrolled in the transfer pathways must also have a minimum GPA of 2.0 on a 4.0 scale.

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education						
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
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
						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 259	Curriculum Planning	3	0	0	0	3
EDU 282	Early Childhood Literature	3	0	0	0	3
						17

Other Requires Courses

ACA 122	College Transfer Success	0	2	0	0	1
						1

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

HUM/FA Elective (Select 1 course)

ART 111, ART 114, ART 115, DRA 111, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 261, ENG 262, HUM 110, HUM 115, HUM 120, HUM 130, HUM 150, HUM 160, HUM 180, HUM 211, HUM 212, MUS 110, MUS 112, PHI 215, PHI 220, PHI 230, PHI 240, REL 110, REL 211, REL 212

**EARLY CHILDHOOD EDUCATION – A55220B
(LICENSURE TRANSFER TRACK)**

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education						
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
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
						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 of Sociology	3	0	0	0	3
EDU 216	Foundations in Education	3	0	0	0	3
EDU 250	Teacher Licensure Preparation	3	0	0	0	3

BIO 110	Principles of Biology or	3	3	0	0	4
BIO 111	General Biology	3	3	0	0	4
	Natural Science Elective	3	3	0	0	4
Natural Science Elective (select 1 science with lab from the courses below)						
AST 111 and AST 111A ; CHM 151; GEL 111 Gelo; PHY 110 and PHY 110A						

19**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****73****HUM/FA Elective (Select 1 course)**

ART 111, ART 114, ART 115, DRA 111, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 261, ENG 262, HUM 110, HUM 115, HUM 120, HUM 130, HUM 150, HUM 160, HUM 180, HUM 211, HUM 212, MUS 110, MUS 112, PHI 215, PHI 220, PHI 230, PHI 240, REL 110, REL 211, REL 212

**EARLY CHILDHOOD EDUCATION – A55220C
(NON-LICENSURE TRANSFER TRACK)**

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education						
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
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

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 of 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
BIO 110	Principles of Biology	3	3	0	0	4
	or					
BIO 111	General Biology	3	3	0	0	4
	Natural Science Elective	3	3	0	0	4
						19

Other Requires Courses

ACA 122	College Transfer Success	0	2	0	0	1
						1

Total Semester Hour Credits for AAS Degree**73****HUM/FA Elective (Select 1 course)**

ART 111, ART 114, ART 115, DRA 111, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 261, ENG 262, HUM 110, HUM 115, HUM 120, HUM 130, HUM 150, HUM 160, HUM 180, HUM 211, HUM 212, MUS 110, MUS 112, PHI 215, PHI 220, PHI 230, PHI 240, REL 110, REL 211, REL 212

EARLY CHILDHOOD EDUCATION DIPLOMA– D55220

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education						
ENG 111	Writing and Inquiry	3	0	0	0	3
ENG 114	Professional Research & Reporting	3	0	0	0	3
						6

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
						22

Other Major Courses

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
						8

Other Required Courses

ACA 122	College Transfer Success	0	2	0	0	1
Total Semester Hour Credits for Diploma						37

ECE - EARLY CHILDHOOD CERTIFICATE – C55220

		Hrs Work				
		Class	Lab	Clin	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 153	Health Safety & Nutrition	3	0	0	0	3
Total Semester Hour Credits for Certificate						13

ECE - INFANT TODDLER CERTIFICATE – C55220H

		Hrs Work				
		Class	Lab	Clin	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
Total Semester Hour Credits for Certificate						13

ECE - INTENTIONAL TEACHER CERTIFICATE – C55220J

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
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
Total Semester Hour Credits for Certificate						16

ECE - SCHOOL-AGE CERTIFICATE – C55220I

		Hrs Work				
		Class	Lab	Clin	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 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
Total Semester Hour Credits for Certificate						16

ECE - TEACHER ASSOCIATE CERTIFICATE – C55220B

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
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
Total Semester Hour Credits for Certificate						15

ECE - EARLY CHILDHOOD ADMINISTRATION CERTIFICATE – C55220G

		Hrs Work				
		Class	Lab	Clin	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 261	Early Childhood Administration I	3	0	0	0	3
EDU 262	Early Childhood Administration II	3	0	0	0	3
Total Semester Hour Credits for Certificate						16

ECE - EARLY CHILDHOOD CTE CERTIFICATE – C55220K

		Hrs Work				
		Class	Lab	Clin	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 153	Health, Safety & Nutrition	3	0	0	0	3
Total Semester Hour Credits for Certificate						13

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.

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education Courses						
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

15-16

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
						4

Total Semester Hour Credits for AAS Degree**66-67****HUM/FA Elective (Select 1 course)**

ART 111, ART 114, ART 115, DRA 111, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 261, ENG 262, HUM 110, HUM 115, HUM 120, HUM 130, HUM 150, HUM 160, HUM 180, HUM 211, HUM 212, MUS 110, MUS 112, PHI 215, PHI 220, PHI 230, PHI 240, REL 110, REL 211, REL 212

SOC/BEH Elective (Select 1 course)

ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, HIS 111, HIS 112, HIS 121, 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

ELECTRIC LINE CONSTRUCTION TECHNOLOGY DIPLOMA – D35230

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education						
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
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
						10

Other Required Courses

WBL114	Work Based Learning I	0	0	0	40	4
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4**Total Semester Hour Credits for Diploma****39****ELECTRIC LINE CONSTRUCTION TECHNOLOGY CERTIFICATE – C35230A ADVANCED**

		Hrs Work				Credits
		Class	Lab	Clin	Exp	
Major Core Courses						
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
Total Semester Hour Credits for Certificate						17

ELECTRIC LINE CONSTRUCTION TECHNOLOGY CERTIFICATE – C35230B THIRD CLASS

		Hrs Work				Credits
		Class	Lab	Clin	Exp	
Major Core Courses						
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
						9
Other Major Courses						
ELC 126	Electrical Computations	2	2	0	0	3
ELT 111A	Intro. to Electric Line Construction Lab0	0	6	0	0	2
HEA 112	First Aid and CPR	1	2	0	0	2
						7
Total Semester Hour Credits for Certificate						16

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.

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education Courses						
COM 110	Introduction to Communication	3	0	0	0	3
	or					
COM 120	Intro Interpersonal 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
						17
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	0	4
ATR 281	Automated Manufacturing	3	2	0	0	4
EGR 125	Appl Software for Tech 1	2	0	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	2	0	0	4
						27

Other Required Courses

ACA 122	College Transfer Success	0	2	0	0	1
						1

Total Hours for Graduation**72-73****HUM/FA Elective (Select 1 course)**

ART 111, ART 114, ART 115, DRA 111, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 261, ENG 262, HUM 110, HUM 115, HUM 120, HUM 130, HUM 150, HUM 160, HUM 180, HUM 211, HUM 212, MUS 110, MUS 112, PHI 215, PHI 220, PHI 230, PHI 240, REL 110, REL 211, REL 212

SOC/BEH Elective (Select 1 course)

ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, HIS 111, HIS 112, HIS 121, 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

**ELECTRICAL SYSTEMS TECHNOLOGY DIPLOMA
– D35130**

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

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
						17

Required Subject Area Courses

ELC 115	Industrial Wiring	2	6	0	0	4
ELC 213	Instrumentation	3	2	0	0	4
						8

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
						8

Total Hours for Graduation**39-40****ELECTRICAL SYSTEMS TECHNOLOGY - ELECTRICAL WIRING CERTIFICATE – C35130A**

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
Technical Core Courses						
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
ELC 115	Industrial Wiring	2	6	0	0	4
						13

Other Major Courses

EGR 125	Appl Software for Tech	1	2	0	0	2
						2

Total Hours for Graduation**15****ELECTRICAL SYSTEMS TECHNOLOGY - ELECTRICAL CONTROLS CERTIFICATE – C35130B**

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
Technical Core Courses						
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
						13
Total Hours for Graduation						13

ELECTRICAL SYSTEMS TECHNOLOGY - PLC CONTROLS CERTIFICATE – C35130C

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

ELECTRICAL SYSTEMS TECHNOLOGY - INDUSTRIAL ROBOTICS CERTIFICATE – C35130D

		Hrs Work				Credits
		Class	Lab	Clin	Exp	
Technical Core Courses						
ELN 260	Prog Logic Controllers	3	3	0	0	4
						4
Other Major Courses						
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
						10
Total Hours for Graduation						14

ELECTRICAL SYSTEMS TECHNOLOGY - INSTRUMENTATION CERTIFICATE – C35130E

		Hrs Work				Credits
		Class	Lab	Clin	Exp	
Technical Core Courses						
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
						9
Required Subject Area Course						
ELC 213	Instrumentation	3	2	0	0	4
						4

Other Major Courses

ELN 131	Analog Electronics I	3	3	0	0	4
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4**Total Hours for Graduation****17****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.

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education						
COM 110	Intro. to Communication	3	0	0	0	3
	or					
COM 120	Intro. to Interpersonal 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
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	2	2	0	0	3
	or					
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

12**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					
MAT 172	Precalculus Trigonometry	3	2	0	0	4
						30

Other Required Courses

ACA 122	College Transfer Success	0	2	0	0	1
						1

Total Hours for Graduation**73-74****HUM/FA Elective (Select 1 course)**

ART 111, ART 114, ART 115, DRA 111, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 261, ENG 262, HUM 110, HUM 115, HUM 120, HUM 130, HUM 150, HUM 160, HUM 180, HUM 211, HUM 212, MUS 110, MUS 112, PHI 215, PHI 220, PHI 230, PHI 240, REL 110, REL 211, REL 212

SOC/BEH Elective (Select 1 course)

ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, HIS 111, HIS 112, HIS 121, 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

**ELECTRONICS ENGINEERING TECHNOLOGY DIPLOMA
– D40200**

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education						
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
						6-7
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
						12

Program Major Courses

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
						12

Other Major Courses

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	3	2	0	0	4
or						
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
						18-19

Total Hours for Graduation**46-48****ELECTRONICS ENGINEERING TECHNOLOGY -
BASIC ELECTRONICS CERTIFICATE – C40200A**

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
Technical Core Courses						
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
Total Hours for Graduation						15

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.

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education Courses						
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
						18
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
						27
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 or	3	0	0	0	3
HEA 112	First Aid & Life Saving	1	2	0	0	2
						26-27

Other Major Courses

ACA 122	College Transfer Success	0	2	0	0	1
						1

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**

SOC/BEH Elective (Select 1 course)

ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, HIS 111, HIS 112, HIS 121, 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

EMERGENCY MANAGEMENT CERTIFICATE EM ESSENTIALS - C55460A

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
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
Total Semester Hour for Certificate						12

EMERGENCY MANAGEMENT CERTIFICATE FIRE MANAGEMENT CONCENTRATION - C55460B

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
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
Total Semester Hour for Certificate						12

EMERGENCY MANAGEMENT CERTIFICATE BUSINESS CONCENTRATION

		Hrs Work				Credits
		Class	Lab	Clin	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
Total Semester Hour for Certificate						12

EMERGENCY MANAGEMENT CERTIFICATE EM AND FIRE BASICS C-55460B

		Hrs Work				Credits
		Class	Lab	Clin	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
Total Semester Hour for Certificate						12

EMERGENCY MEDICAL SCIENCE – A45340

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.

		Hrs Work				Credits
		Class	Lab	Clin	Exp	
General Education						
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
						18

Major Core Courses

EMS 110	Emergency Medical Technician	6	6	3	0	9
BIO 163	Basic Anatomy & Physiology	4	2	0	0	5
						14

Required Subject Area: Paramedic

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	2	3	0	0	3
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	3	3	0	0	4
EMS 285	EMS Capstone	1	3	0	0	2
						36

Other Major Courses

EMS 140	Rescue Scene Management	1	3	0	0	2
EMS 235	EMS Management	2	0	0	0	2
						4

Other Required Courses

ACA 122	College Transfer Success	0	2	0	0	1
						1

Total Hours for Graduation **73**

FIRE PROTECTION TECHNOLOGY – A55240

The Fire Protection Technology curriculum is designed to provide students with knowledge and skills in the technical, managerial, and leadership areas necessary for advancement within the fire protection community and related firefighting industries, and to provide currently employed firefighters with knowledge and skills often required for promotional consideration.

Course work includes diverse fire protection subject areas, including fire prevention and safety, public education, building construction, fire ground strategies and tactics, and local government finance and laws, as they apply to emergency services management. Emphasis includes understanding fire characteristics and the structural consequences of fire; risk assessment and management; and relevant research, communications, and leadership methodologies.

Employment opportunities exist with fire departments, governmental agencies, industrial firms, insurance rating organizations, and educational organizations.

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education						
COM 110	Introduction to Communications	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	3	0	0	0	3
SOC/BEH	Social/Behavioral Science Elective	3	0	0	0	3
						18
Major Core Courses						
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 152	Fire Protection Law	3	0	0	0	3
FIP 220	Fire Fighting Strategies	3	0	0	0	3
FIP 228	Local Government Finance	3	0	0	0	3
						18
Other Major Courses						
BUS 110	Introduction to Business	3	0	0	0	3
CIS 110	Introduction to Computers	2	2	0	0	3
EPT 140	Emergency Management	4	0	0	0	4
EPT 150	Incident Management	3	0	0	0	3
FIP 128	Detection & Investigation	3	0	0	0	3
FIP 176	Hazardous Material Operation	4	0	0	0	4
FIP 240	Fire Service Supervision	3	0	0	0	3
FIP 248	Fire Services Personnel Admin	3	0	0	0	3
FIP 260	Fire Protection Planning	3	0	0	0	3
FIP 276	Managing Fire Services	3	0	0	0	3
						31
Other Required Courses						
ACA 122	College Transfer Success	0	2	0	0	1
HEA 110	Personal Health and Wellness	3	0	0	0	3
or						
HEA 112	First Aid & Life Saving	1	2	0	0	2
						3-4
Total Hours for Graduation						70-71

SOC/BEH Elective (Select 1 course)

ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, HIS 111, HIS 112, HIS 121, 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

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

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

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.

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education						
COM 110	Introduction to Communication	3	0	0	0	3
	or					
COM 120	Intro Interpersonal 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 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
						15
Major Core Courses						
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
						26
Other Major Courses						
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 - 6 Credits Totals):						
CUL 112, CUL 120/120A, CUL 160, HRM 130, HRM 210						25

Other Required Courses

ACA 122	College Transfer Success	0	2	0	0	1
						1

Total Semester Hour Credits for AAS Degree**67****HUM/FA Elective (Select 1 course)**

ART 111, ART 114, ART 115, DRA 111, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 261, ENG 262, HUM 110, HUM 115, HUM 120, HUM 130, HUM 150, HUM 160, HUM 180, HUM 211, HUM 212, MUS 110, MUS 112, PHI 215, PHI 220, PHI 230, PHI 240, REL 110, REL 211, REL 212

HOSPITALITY MANAGEMENT – D25110

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education						
COM 110	Introduction to Communication	3	0	0	0	3
	or					
COM 120	Intro Interpersonal 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
						6

Major Core Courses

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
						20

Other Major Courses

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
						15
Total Hours for Graduation						41

LODGING MANAGEMENT CERTIFICATE – C25110A

		Hrs Work				
		Class	Lab	Clin	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
Total Semester Hour Credits for Certificate						15

RESTAURANT MANAGEMENT CERTIFICATE – C25110B

		Hrs Work				
		Class	Lab	Clin	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
Total Semester Hour Credits for Certificate						14

CATERING MANAGEMENT CERTIFICATE – C25110C

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
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
Total Semester Hour Credits for Certificate						15

BED AND BREAKFAST MANAGEMENT CERTIFICATE – C25110D

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
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
HRM 120	Front Office Procedures	3	0	0	0	3
HRM 130	Bed and Breakfast Management	3	0	0	0	3
Total Hours for Graduation						13

EVENT PLANNING CERTIFICATE – C25110E

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
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
Total Hours for Graduation						15

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.

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education						
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
						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
BIO 110	Principles of Biology	3	3	0	0	4
	or					
BIO 111	General Biology I	3	3	0	0	4
	or					
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
						24-25

Other Required Courses

ACA 122	College Transfer Success	0	2	0	0	1
						1

Total Semester Hour Credits for AAS Degree**65-66****HUM/FA Elective (Select 1 course)**

ART 111, ART 114, ART 115, DRA 111, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 261, ENG 262, HUM 110, HUM 115, HUM 120, HUM 130, HUM 150, HUM 160, HUM 180, HUM 211, HUM 212, MUS 110, MUS 112, PHI 215, PHI 220, PHI 230, PHI 240, REL 110, REL 211, REL 212

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. Field-work 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.

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education						
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
						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
						1

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

HUM/FA Elective (Select 1 course)

ART 111, ART 114, ART 115, DRA 111, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 261, ENG 262, HUM 110, HUM 115, HUM 120, HUM 130, HUM 150, HUM 160, HUM 180, HUM 211, HUM 212, MUS 110, MUS 112, PHI 215, PHI 220, PHI 230, PHI 240, REL 110, REL 211, REL 212

HUMAN SERVICES TECHNOLOGY/ADDICTION AND RECOVERY SERVICES CONCENTRATION – A4538E

The Human Services Technology/ Addiction and Recovery Services concentration prepares students to assist in drug and alcohol counseling, prevention-oriented educational activities, rehabilitation with recovering clients, managing community-based programs, counseling in residential facilities, and pursuit of four-year degrees.

Course work includes classroom and experiential activities oriented toward an overview of chemical dependency, psychological/sociological process, the twelve Core Functions, intervention techniques with individuals in groups, and follow-up activities with recovering clients.

Graduates should qualify for positions as substance abuse counselors, DUI counselors, halfway house workers, residential facility employees, and substance education specialists. With educational and clinical experiences, graduates can obtain certification by the North Carolina Substance Abuse Board.

		Hrs Work				Credits
		Class	Lab	Clin	Exp	
General Education						
COM 110	Introduction to Communication	3	0	0	0	3
	or					
COM 120	Intro to Interpersonal 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
						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 281	Abnormal Psychology	3	0	0	0	3
SOC 210	Introduction of Sociology	3	0	0	0	3
						25
Other Major Courses						
BIO 110	Principles of Biology	3	3	0	0	4
	or					
BIO 111	General Biology I	3	3	0	0	4
	or					
HEA 110	Personal Health/Wellness	3	0	0	0	3
SAB 110	Substance Abuse Overview	3	0	0	0	3
SAB 120	Intake and Assessment	3	0	0	0	3
SAB 125	SA Case Management	3	0	0	0	3

SAB 135	Addictive Process	3	0	0	0	3
SAB 240	SAB Issues in Client Services	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
						26-27

Other Required Courses

ACA 122	College Transfer Success	0	2	0	0	1
						1

Total Semester Hour Credits for AAS Degree **67-68**

HUM/FA Elective (Select 1 course)

ART 111, ART 114, ART 115, DRA 111, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 261, ENG 262, HUM 110, HUM 115, HUM 120, HUM 130, HUM 150, HUM 160, HUM 180, HUM 211, HUM 212, MUS 110, MUS 112, PHI 215, PHI 220, PHI 230, PHI 240, REL 110, REL 211, REL 212

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	
General Education						
COM 110	Introduction to Communication	3	0	0	0	3
	or					
COM 120	Intro Interpersonal 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
						15-16
Technical Core Courses						
BPR 111	Print Reading	1	2	0	0	2
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
						19
Required Subject Area Courses						
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
						12
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
ELC 131A	Circuit Analysis I Lab	0	3	0	0	1
ELN 260	Prog Logic Controllers	3	3	0	0	4
ELC 131A	Circuit Analysis Lab	0	3	0	0	1
						23

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

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
MAC 142	Machining Applications II	2	6	0	0	4
						4

Other Required Courses

ACA 122	College Transfer Success	0	2	0	0	1
						1

Total Hours for Graduation**74-75****HUM/FA Elective (Select 1 course)**

ART 111, ART 114, ART 115, DRA 111, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 261, ENG 262, HUM 110, HUM 115, HUM 120, HUM 130, HUM 150, HUM 160, HUM 180, HUM 211, HUM 212, MUS 110, MUS 112, PHI 215, PHI 220, PHI 230, PHI 240, REL 110, REL 211, REL 212

SOC/BEH Elective (Select 1 course)

ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, HIS 111, HIS 112, HIS 121, 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

INDUSTRIAL SYSTEMS TECHNOLOGY DIPLOMA – D50240

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

Major Core Courses

BPR 111	Blueprint 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 I	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
						18-19

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

AHR 110	Intro. 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
ELC 113	Residential Wiring	2	6	0	0	4
ELC 115	Industrial Wiring	2	6	0	0	4
ELC 117	Motors and Controls	2	6	0	0	4
ELC 131A	DC/AC Circuit Analysis Lab	0	3	0	0	1
ELN 260	Prog Logic Controllers	3	3	0	0	4
						12-14

Total Hours for Graduation

36-39

**INDUSTRIAL SYSTEMS TECHNOLOGY
- HVAC CERTIFICATE – C50240A**

		Hrs Work				Credits
		Class	Lab	Clin	Exp	
Technical Core Courses						
MNT 110	Intro. to Maint. Procedures	1	3	0	0	2
						2
Required Subject Area Courses						
ELC 113	Residential Wiring	2	6	0	0	4
						4
Other Major Courses						
AHR 110	Intro. to Refrigeration	2	6	0	0	5
AHR 112	Heating Technology	2	4	0	0	4
						9
Total Hours for Graduation						15

**INDUSTRIAL SYSTEMS TECHNOLOGY
MECHANICAL CERTIFICATE – C50240B**

		Hrs Work				Credits
		Class	Lab	Clin	Exp	
Technical Core Courses						
BPR 111	Blueprint Reading	1	2	0	0	2
HYD 110	Hydraulic/Pneumatics I	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

Total Hours for Graduation **15**

INDUSTRIAL SYSTEMS TECHNOLOGY - MACHINING MAINTENANCE CERTIFICATE – C50240D

		Hrs Work				Credits
		Class	Lab	Clin	Exp	
Technical Core Courses						
ELC 131	Circuit Analysis	3	3	0	0	4
MAC 141	Machining Applications I	2	6	0	0	4
						8

Other Major Courses

EGR 125	Appl Software for Tech	1	2	0	0	2
						2

Other Required Courses

ELC 131A	Circuit Analysis I Lab	0	3	0	0	1
MAC 141A	Machining Applications I Lab	0	6	0	0	2
						3

Total Hours for Graduation **13**

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

		Hrs Work				Credits
		Class	Lab	Clin	Exp	
General Education Courses						
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 143	Quantitative Literacy	2	2	0	0	3
or						
MAT 171	Precalculus Algebra	3	2	0	0	4
SOC/BEH	Elective	3	0	0	0	3
						15-16
Technical Core Courses						
CTI 110	Web, Pgm & DB Foundation	2	2	0	0	3
CTI 120	Network & Sec Foundation	2	2	0	0	3
CTS 115	Info Sys Business Concepts	3	0	0	0	3
CTS 120	Hardware/Software Support	2	3	0	0	3
						12
Required Subject Area Courses						
CTS 220	Adv Hard/Software Support	2	3	0	0	3
NOS 120	Linux/UNIX Single User	2	2	0	0	3
NOS 130	Windows Single User	2	2	0	0	3
NOS 230	Windows Admin I	2	2	0	0	3
						12
Other Major Courses						
CIS 110	Introduction to Computers	2	2	0	0	3
CSC 121	Python Programming	2	3	0	0	3
CTS 130	Spreadsheet	2	2	0	0	3
CTI 141	Cloud & Storage Concepts	1	4	0	0	3
CTI 150	Mobile Computing Devices	2	2	0	0	3
CTS 287	Emerging Technologies	3	0	0	0	3
CTS 289	System Support Project	1	4	0	0	3
DBA 110	Database Concepts	2	3	0	0	3
DBA 115	Database Applications	2	2	0	0	3
WEB 140	Web Development Tools	2	3	0	0	3
WBL 111	Work-Based Learning I	0	0	0	10	1
						31
Other Required Courses						
ACA 122	College Transfer Success	0	2	0	0	1
						1
Total Semester Hour Credits for Diploma						71-72

HUM/FA Elective (Select 1 course)

ART 111, ART 114, ART 115, DRA 111, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 261, ENG 262, HUM 110, HUM 115, HUM 120, HUM 130, HUM 150, HUM 160, HUM 180, HUM 211, HUM 212, MUS 110, MUS 112, PHI 215, PHI 220, PHI 230, PHI 240, REL 110, REL 211, REL 212

SOC/BEH Elective (Select 1 course)

ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, HIS 111, HIS 112, HIS 121, 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

SOFTWARE APPLICATIONS CERTIFICATE - C25590AA

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
CIS 110	Introduction to Computers	2	2	0	0	3
CTI 110	Web, Pgm & DB Foundation	2	2	0	0	3
CTI 120	Network & Sec Foundation	2	2	0	0	3
DBA 110	Database Concepts	2	3	0	0	3
CTS 130	Spreadsheet	2	2	0	0	3
Total Hours for Graduation						15

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

- IC3 Digital Literacy Certification
- Microsoft Office Specialist - Word, Excel, Access

HELPDESK SUPPORT CERTIFICATE - C25590AB

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

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

- IC3 Digital Literacy Certification

- CompTIA A+ Certification
- Microsoft Technology Associate (MTA) – Windows Operating System Fundamentals
- Microsoft Technology Associate (MTA) – Windows Server Administration Fundamentals
- Microsoft Technology Associate (MTA) – Mobility and Devices Fundamentals
- Microsoft Technology Associate (MTA) – Cloud Fundamentals

DATA ANALYSIS AND MANAGEMENT CERTIFICATE - C25590AC

		Hrs Work				Credits
		Class	Lab	Clin	Exp	
CIS 110	Introduction to Computers	2	2	0	0	3
DBA 110	Database Concepts	2	3	0	0	3
CTI 130	Spreadsheet	2	2	0	0	3
CTS 287	Emerging Technologies	3	0	0	0	3
Total Semester Hours						12

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

- IC3 Digital Literacy Certification
- Microsoft Office Specialist - Word, Excel, Access

INFORMATION TECHNOLOGY: NETWORK MANAGEMENT - A25590B

		Hrs Work				Credits
		Class	Lab	Clin	Exp	
General Education Courses						
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 143	Quantitative Literacy	2	2	0	0	3
	or					
MAT 171	Precalculus Algebra	3	2	0	0	4
SOC/BEH	Elective	3	0	0	0	3
						15-16

Technical Core Courses

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

Required Subject Area Courses

NET 125	Introduction to Networks	1	4	0	0	3
NET 126	Routing Basics	1	4	0	0	3
						6

Other Major Courses

CTI 141	Cloud & Storage Concepts	1	4	0	0	3
CTI 175	Intro to Wireless Technology	2	2	0	0	3
CTI 240	Virtualization Admin I	1	4	0	0	3
CTS 220	Adv Hard/Software Support	2	3	0	0	3
CTS 287	Emerging Technologies	3	0	0	0	3
CTS 289	System Support Project	1	4	0	0	3
DBA 110	Database Concepts	2	3	0	0	3
NET 225	Routing and Switching I	1	4	0	0	3
NOS 120	Linux/UNIX Single User	2	2	0	0	3
NOS 130	Windows Single User	2	2	0	0	3
NOS 230	Windows Admin I	2	2	0	0	3
SEC 160	Security Administration	2	2	0	0	3
WBL 111	Work-Based Learning I	0	0	0	10	1
						37

Other Required Courses

ACA 122	College Transfer Success	0	2	0	0	1
						1

Total Semester Hours**71-72****HUM/FA Elective (Select 1 course)**

ART 111, ART 114, ART 115, DRA 111, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 261, ENG 262, HUM 110, HUM 115, HUM 120, HUM 130, HUM 150, HUM 160, HUM 180, HUM 211, HUM 212, MUS 110, MUS 112, PHI 215, PHI 220, PHI 230, PHI 240, REL 110, REL 211, REL 212

SOC/BEH Elective (Select 1 course)

ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, HIS 111, HIS 112, HIS 121, 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

NETWORK TECHNICIAN CERTIFICATE - C25590BA

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

NOS 230	Windows Admin I	2	2	0	0	3
CTI 175	Intro to Wireless Technology	2	2	0	0	3

18

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

- IC₃ Digital Literacy Certification
- Microsoft Technology Associate (MTA) – Networking Fundamentals
- Microsoft Technology Associate (MTA) – Windows Operating System Fundamentals
- Microsoft Technology Associate (MTA) – Windows Server Administration Fundamentals

NETWORK ADMINISTRATION CERTIFICATE - C25590BB

		Hrs Work				Credits
		Class	Lab	Clin	Exp	
NET 125	Introduction to Networks	1	4	0	0	3
NET 126	Routing Basics	1	4	0	0	3
NET 225	Routing and Switching I	1	4	0	0	3
CTI 120	Network & Sec Foundation	2	2	0	0	3
	or					
CTI 175	Intro to Wireless Technology	2	2	0	0	3

12

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

- Microsoft Technology Associate (MTA) – Networking Fundamentals
- 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	0	3
NOS 130	Windows Single User	2	2	0	0	3
NOS 230	Windows Admin I	2	2	0	0	3
CTI 141	Cloud & Storage Concepts	1	4	0	0	3
CTI 240	Virtualization Admin I	1	4	0	0	3

15

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

- IC₃ Digital Literacy Certification
- Microsoft Technology Associate (MTA) – Networking Fundamentals

- Microsoft Technology Associate (MTA) – Windows Operating System Fundamentals
- Microsoft Technology Associate (MTA) – Windows Server Administration Fundamentals
- Microsoft Technology Associate (MTA) – Mobility and Devices Fundamentals
- Microsoft Technology Associate (MTA) – Cloud Fundamentals
- vSphere 6.5 Foundations Certification

INFORMATION TECHNOLOGIES: CYBERSECURITY – A25590C

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education Courses						
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 143	Quantitative Literacy	2	2	0	0	3
	or					
MAT 171	Precalculus Algebra	3	2	0	0	4
SOC/BEH	Elective	3	0	0	0	3
						15-16
Technical Core Courses						
CTI 110	Web, Pgm & DB Foundation	2	2	0	0	3
CTI 120	Network & Sec Foundation	2	2	0	0	3
CTS 115	Info Sys Business Concepts	3	0	0	0	3
CTS 120	Hardware/Software Support	2	3	0	0	3
						12
Required Subject Area Courses						
SEC 110	Security Concepts	2	2	0	0	3
SEC 150	Secure Communications	2	2	0	0	3
						6
Other Major Courses						
DBA 110	Database Concepts	2	3	0	0	3
NET 125	Introduction to Networks	1	4	0	0	3
NET 126	Routing Basics	1	4	0	0	3
NOS 120	Linux/UNIX Single User	2	2	0	0	3
NOS 130	Windows Single User	2	2	0	0	3
NOS 230	Windows Admin I	2	2	0	0	3
CTI 141	Cloud & Storage Concepts	1	4	0	0	3
CTI 240	Virtualization Admin I	1	4	0	0	3
CTS 287	Emerging Technologies	3	0	0	0	3
CTS 289	System Support Project	1	4	0	0	3

SEC 160	Security Administration	2	2	0	0	3
SEC 180	Info Assurance Principles	2	2	0	0	3
SEC 210	Intusion Detection	2	2	0	0	3
WBL 111	Work-Based Learning I	0	0	0	10	1
						40

Other Required Courses

ACA 122	College Transfer Success	0	2	0	0	1
						1

Total Semester Hours **74-75**

HUM/FA Elective (Select 1 course)

ART 111, ART 114, ART 115, DRA 111, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 261, ENG 262, HUM 110, HUM 115, HUM 120, HUM 130, HUM 150, HUM 160, HUM 180, HUM 211, HUM 212, MUS 110, MUS 112, PHI 215, PHI 220, PHI 230, PHI 240, REL 110, REL 211, REL 212

SOC/BEH Elective (Select 1 course)

ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, HIS 111, HIS 112, HIS 121, 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

CYBERSECURITY CERTIFICATE - C25590CA

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
CTI 120	Network & Sec Foundation	2	2	0	0	3
SEC 110	Security Concepts	2	2	0	0	3
SEC 150	Secure Communications	2	2	0	0	3
SEC 210	Intusion Detection	2	2	0	0	3
SEC 180	Info Assurance Principles	2	2	0	0	3
Total Hours for Graduation						15

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

- IC3 Digital Literacy Certification
- Microsoft Technology Associate (MTA) – Security Fundamentals

**INFORMATION TECHNOLOGY:
WEB DESIGN AND ADMINISTRATION -A25590D**

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education Courses						
COM	Elective	3	0	0	0	3

Curriculum Programs

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
	or					
MAT 171	Precalculus Algebra	3	2	0	0	4
SOC/BEH	Elective	3	0	0	0	3

15-16

Technical Core Courses

CIS 110	Introduction to Computers	2	2	0	0	3
CTI 110	Web, Pgm & DB Foundation	2	2	0	0	3
CTI 120	Network & Sec Foundation	2	2	0	0	3
CTS 115	Info Sys Business Concepts	3	0	0	0	3

12

Required Subject Area Courses

WEB 115	Web Markup & Scripting	2	3	0	0	3
WEB 210	Web Design	2	3	0	0	3

6

Other Major Courses

CSC 121	Python Programming	2	3	0	0	3
CTI 141	Cloud & Storage Concepts	1	4	0	0	3
CTS 289	System Support Project	1	4	0	0	3
DBA 110	Database Concepts	2	3	0	0	3
DBA 115	Database Applications	2	2	0	0	3
NOS 120	Linux/UNIX Single User	2	2	0	0	3
NOS 130	Windows Single User	2	2	0	0	3
WEB 111	Intro to Web Graphics	2	2	0	0	3
WEB 125	Mobile Web Design	2	3	0	0	3
WEB 140	Web Development Tools	2	3	0	0	3
WEB 151	Mobile Application Dev I	2	3	0	0	3
WEB 250	Database Driven Websites	2	3	0	0	3
WBL 111	Work-Based Learning I	0	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

71-72

HUM/FA Elective (Select 1 course)

ART 111, ART 114, ART 115, DRA 111, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 261, ENG 262, HUM 110, HUM 115, HUM 120, HUM 130, HUM 150, HUM 160, HUM 180, HUM 211, HUM 212, MUS 110, MUS 112, PHI 215, PHI 220, PHI 230, PHI 240, REL 110, REL 211, REL 212

SOC/BEH Elective (Select 1 course)

ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, HIS 111, HIS 112, HIS 121, 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

INFORMATION TECHNOLOGY: WEBSITE DESIGN CERTIFICATE - C25590DA

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

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

- IC3 Digital Literacy Certification
- Microsoft Technology Associate (MTA) – Introduction to Programming Using HTML and CSS
- Microsoft Technology Associate (MTA) – HTML5 Application Development Fundamentals

INFORMATION TECHNOLOGY: GAME AND SIMULATION PROGRAMMING - A25590E

		Hrs Work				Credits
		Class	Lab	Clin	Exp	
General Education Courses						
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 143	Quantitative Literacy	2	2	0	0	3
	or					
MAT 171	Precalculus Algebra	3	2	0	0	4
SOC/BEH	Elective	3	0	0	0	3
						15-16

Technical Core Courses

CIS 110	Introduction to Computers	2	2	0	0	3
CTI 110	Web, Pgm & DB Foundation	2	2	0	0	3

CTI 120	Network & Sec Foundation	2	2	0	0	3
CTS 115	Info Sys Business Concepts	3	0	0	0	3
						12

Required Subject Area Courses

SGD 111	Introduction to SGD	2	3	0	0	3
SGD 113	SGD Programming	2	3	0	0	3
						6

Other Major Courses

DBA 110	Database Concepts	2	3	0	0	3
NOS 130	Windows Single User	2	2	0	0	3
SGD 112	SGD Design	2	3	0	0	3
SGD 116	Graphic Design Tool	2	2	0	0	3
SGD 162	SGD 3D Animation	2	3	0	0	3
SGD 165	SGD Character Development	2	3	0	0	3
SGD 174	SG Level Design	2	3	0	0	3
SGD 212	SGD Design II	2	3	0	0	3
SGD 289	SGD Project	2	3	0	0	3
WEB 125	Mobile Web Design	2	2	0	0	3
WEB 151	Mobile Application Dev I	2	2	0	0	3
						33

Other Required Courses

ACA 122	College Transfer Success	0	2	0	0	1
						1

Total Hours for Graduation**67-68****HUM/FA Elective (Select 1 course)**

ART 111, ART 114, ART 115, DRA 111, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 261, ENG 262, HUM 110, HUM 115, HUM 120, HUM 130, HUM 150, HUM 160, HUM 180, HUM 211, HUM 212, MUS 110, MUS 112, PHI 215, PHI 220, PHI 230, PHI 240, REL 110, REL 211, REL 212

SOC/BEH Elective (Select 1 course)

ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, HIS 111, HIS 112, HIS 121, 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

**GAME AND SIMULATION PROGRAMMING CERTIFICATE
- C25590EA**

		Hrs Work				
		Class	Lab	Clin Exp	Credits	
SGD 111	Introduction to SGD	2	3	0	0	3
SGD 112	SGD Design	2	3	0	0	3
CTI 110	Web, Pgm & DB Foundation	2	2	0	0	3

SGD 116	Graphic Design Tool	2	2	0	0	3
SGD 165	SGD Character Development	2	3	0	0	3
SGD 212	SGD Design II	2	3	0	0	3
Total Hours for Graduation						18

INFORMATION TECHNOLOGY: HEALTHCARE INFORMATICS - A25590F

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education Courses						
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 143	Quantitative Literacy	2	2	0	0	3
or						
MAT 171	Precalculus Algebra	3	2	0	0	4
SOC/BEH	Elective	3	0	0	0	3
						15-16

Technical Core Courses

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

Required Subject Area Courses

HBI 110	Issues and Trends in HBI	3	0	0	0	3
DBA 110	Database Concepts	2	3	0	0	3
						6

Other Major Courses

CIS 110	Introduction to Computers	2	2	0	0	3
CTI 141	Cloud & Storage Concepts	1	4	0	0	3
CTI 150	Mobile Computing Devices	2	2	0	0	3
CTS 220	Adv Hardware/Software Support	2	3	0	0	3
DBA 115	Database Applications	2	2	0	0	3
HBI 113	Survey of Med Insurance	3	0	0	0	3
HBI 250	Data Mgmt and Utilization	2	2	0	0	3
HMT 110	Intro to Healthcare Mgt	3	0	0	0	3
NOS 130	Windows Single User	2	2	0	0	3
NOS 230	Windows Admin I	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 149	Medical Legal Issues	3	0	0	0	3
WBL 111	Work-Based Learning I	0	0	0	10	1
						40

Other Required Courses

ACA 122	College Transfer Success	0	2	0	0	1
						1

Total Hours for Graduation**74-75****HUM/FA Elective (Select 1 course)**

ART 111, ART 114, ART 115, DRA 111, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 261, ENG 262, HUM 110, HUM 115, HUM 120, HUM 130, HUM 150, HUM 160, HUM 180, HUM 211, HUM 212, MUS 110, MUS 112, PHI 215, PHI 220, PHI 230, PHI 240, REL 110, REL 211, REL 212

SOC/BEH Elective (Select 1 course)

ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, HIS 111, HIS 112, HIS 121, 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

HEALTHCARE INFORMATICS CERTIFICATE - C25590FA

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

Total Hours for Graduation**18**

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

- Microsoft Office Specialist - Access
- Microsoft Technology Associate (MTA) – Database Fundamentals
- Microsoft Technology Associate (MTA) – Windows Operating System Fundamentals

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.

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education Courses						
COM 110	Intro. to Communications	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 143	Quantitative Literacy	2	2	0	0	3
PSY 150	General Psychology	3	0	0	0	3
						15
Major Core Courses I (require grade of B or higher)						
MED 110	Orientation to Medical Assisting	1	0	0	0	1
MED 130	Administrative Office Procedures I	1	2	0	0	2
MED 131	Administrative Office Procedures II	1	2	0	0	2
MED 140	Exam Room Procedures I	3	4	0	0	5
MED 150	Laboratory Procedures I	3	4	0	0	5
MED 260	MED Clinical Practicum	0	0	15	0	5
						20
Major Core Courses II (require grade of C or higher)						
BIO 163	Basic Anatomy & Physiology	4	2	0	0	5
OST 141	Med Office Terms I	3	0	0	0	3
OST 142	Med Office Terms II	2	2	0	0	3
OST 149	Medical Legal Issues	3	0	0	0	3
						14
Other Major Courses I (require grade of B or higher)						
MED 240	Exam Room Procedures II	3	4	0	0	5
MED 262	Clinical Perspectives	1	0	0	0	1

MED 270	Symptomatology	2	2	0	0	3
MED 272	Drug Therapy	3	0	0	0	3
						12
Other Major Courses II (require grade of C or higher)						
MED 274	Diet Therapy/Nutrition	3	0	0	0	3
or						
OST 247	Procedure Coding	2	2	0	0	3
and						
OST 248	Diagnostic Coding	2	2	0	0	3
OST 148	Medical Coding, Billing, & Insurance	3	0	0	0	3
						6-9
Other Required Courses						
ACA 122	College Transfer Success	0	2	0	0	1
						1
Total Semester Hour Credits for AAS Degree						68-69

HUM/FA Elective (Select 1 course)

ART 111, ART 114, ART 115, DRA 111, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 261, ENG 262, HUM 110, HUM 115, HUM 120, HUM 130, HUM 150, HUM 160, HUM 180, HUM 211, HUM 212, MUS 110, MUS 112, PHI 215, PHI 220, PHI 230, PHI 240, REL 110, REL 211, REL 212

MEDICAL ASSISTING DIPLOMA – D45400

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education Courses						
ENG 111	Writing and Inquiry	3	0	0	0	3
PSY 150	General Psychology	3	0	0	0	3
						6
Major Core Courses						
BIO 163	Basic Anatomy & Physiology	4	2	0	0	5
MED 110	Orientation to Medical Ass	1	0	0	0	1
MED 130	Administrative Office Procedures I	1	2	0	0	2
MED 131	Administrative Office Procedures II	1	2	0	0	2
MED 140	Exam Room Procedures I	3	4	0	0	5
MED 150	Laboratory Procedures I	3	4	0	0	5
MED 260	MED Clinical Practicum	0	0	15	0	5
OST 141	Med Office Terms I	3	0	0	0	3
OST 142	Med Office Terms II	3	0	0	0	3
OST 149	Medical Legal Issues	3	0	0	0	3
						34

Other Major Courses

MED 262	Clinical Perspectives	1	0	0	0	1
						1

Other Required Courses

ACA 122	College Transfer Success	0	2	0	0	1
						1

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
General Education Courses						
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 143	Quantitative Literacy	2	2	0	0	3
or						
MAT 171	Precalculus Algebra	3	2	0	0	4
SOC/BEH	Elective	3	0	0	0	3
						15-16

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

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
						12

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 280	Electronic Health Records	2	2	0	0	3
WBL 111	Work Based Learning I	0	0	0	10	1
						12

Other Required Courses

ACA 122	College Transfer Success	0	2	0	0	1
						1

Total Semester Hour Credits for AAS Degree**64-65****HUM/FA Elective (Select 1 course)**

ART 111, ART 114, ART 115, DRA 111, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 261, ENG 262, HUM 110, HUM 115, HUM 120, HUM 130, HUM 150, HUM 160, HUM 180, HUM 211, HUM 212, MUS 110, MUS 112, PHI 215, PHI 220, PHI 230, PHI 240, REL 110, REL 211, REL 212

SOC/BEH Elective (Select 1 course)

ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, HIS 111, HIS 112, HIS 121, 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

**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
						18

Total Semester Hour Credits for Certificate**18**

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 A25310B

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education Courses						
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 143	Quantitative Literacy	2	2	0	0	3
	or					
MAT 171	Precalculus Algebra	3	2	0	0	4
SOC/BEH	Elective	3	0	0	0	3
						15-16

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
OST 248	Procedure Coding	2	2	0	0	3
OST 260	Adv Coding Methodologies	2	2	0	0	3
OST 264	Medical Auditing	3	0	0	0	3
						12

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 249	Med Coding Certification Prep	2	3	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
						23

Other Required Courses

ACA 122	College Transfer Success	0	2	0	0	1
						1

Total Semester Hour Credits for AAS Degree **75-76**

HUM/FA Elective (Select 1 course)

ART 111, ART 114, ART 115, DRA 111, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 261, ENG 262, HUM 110, HUM 115, HUM 120, HUM 130, HUM 150, HUM 160, HUM 180, HUM 211, HUM 212, MUS 110, MUS 112, PHI 215, PHI 220, PHI 230, PHI 240, REL 110, REL 211, REL 212

SOC/BEH Elective (Select 1 course)

ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, HIS 111, HIS 112, HIS 121, 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

MEDICAL OFFICE ADMINISTRATION – MEDICAL BILLING AND CODING CERTIFICATE C25310BA

		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
						18

MEDICAL OFFICE ADMINISTRATION MEDICAL AUDITOR A25310C

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education Courses						
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 143	Quantitative Literacy	2	2	0	0	3
	or					
MAT 171	Precalculus Algebra	3	2	0	0	4
SOC/BEH	Elective	3	0	0	0	3

15-16**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
OST 248	Procedure Coding	2	2	0	0	3
OST 264	Medical Auditing	3	0	0	0	3
OST 265	Healthcare Comp & Reg	2	2	0	0	3

12**Other Major Courses**

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 260	Adv. Coding Methodologies	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

23**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****75-76****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.

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education Courses						
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 143	Quantitative Literacy	2	2	0	0	3
or						
MAT 171	Precalculus Algebra	3	2	0	0	4
SOC/BEH	Elective	3	0	0	0	3
						15-16
Major Core Courses						
CIS 110	Introduction to Computers	2	2	0	0	3
BUS 137	Principles of Management	3	0	0	0	3
OST 136	Word Processing	2	2	0	0	3
OST 164	Office Editing	3	0	0	0	3
OST 289	Administrative Office Management	2	2	0	0	3
						15
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
						9
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
						28

Other Required Courses

ACA 122	College Transfer Success	0	2	0	0	1
						1

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

HUM/FA Elective (Select 1 course)

ART 111, ART 114, ART 115, DRA 111, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 261, ENG 262, HUM 110, HUM 115, HUM 120, HUM 130, HUM 150, HUM 160, HUM 180, HUM 211, HUM 212, MUS 110, MUS 112, PHI 215, PHI 220, PHI 230, PHI 240, REL 110, REL 211, REL 212

SOC/BEH Elective (Select 1 course)

ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, HIS 111, HIS 112, HIS 121, 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

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

- IC3 Digital Literacy Certification
- Microsoft Office Specialist Certification - Word, Excel, Access

OFFICE ADMINISTRATION OFFICE DOCUMENT SPECIALIST CERTIFICATE – C25370AA

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
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
Total Semester Hour Credits for Certificate						14

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 ENG 111 and MAT 171, GPA > 2.00. Please refer to the College Catalog – Admission Requirements for detailed information.

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education						
COM 231	Public Speaking	3	0	0	0	3
ENG 111	Writing and Inquiry	3	0	0	0	3
MAT 171	Precalculus Algebra	3	2	0	0	4
PSY 150	General Psychology	3	0	0	0	3
HUM/FA	Humanities/Fine Arts Elective	3	0	0	0	3
						16
Major Core Courses						
PTA 110	Introduction to Phy. Therapy	2	3	0	0	3
PTA 125	Gross & Functional Anatomy	3	6	0	0	5
PTA 135	Pathology	4	0	0	0	4
PTA 145	Therapeutic Procedures	2	6	0	0	4
PTA 155	PTA Clinical I	0	0	6	0	2
PTA 185	PTA Clinical II	0	0	9	0	3
PTA 212	Health Care Resources	2	0	0	0	2
PTA 215	Therapeutic Exercise	2	3	0	0	3
PTA 222	Professional Interactions	2	0	0	0	2
PTA 225	Introduction to Rehabilitation	3	3	0	0	4
PTA 235	Neurological Rehabilitation	3	6	0	0	5
PTA 245	PTA Clinical III	0	0	12	0	4
PTA 255	PTA Clinical IV	0	0	12	0	4
						45
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
CIS 110	Introduction to Computers	2	2	0	0	3
						11

Other Required Courses

ACA 122	College Transfer Success	0	2	0	0	1
						1
Total Hours for Graduation						73

HUM/FA Elective (Select 1 course)

ART 111, ART 114, ART 115, DRA 111, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 261, ENG 262, HUM 110, HUM 115, HUM 120, HUM 130, HUM 150, HUM 160, HUM 180, HUM 211, HUM 212, MUS 110, MUS 112, PHI 215, PHI 220, PHI 230, PHI 240, REL 110, REL 211, REL 212

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. Please refer to the College Catalog - Admission Requirements for detailed information.

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education Courses						
ENG 111	Writing and Inquiry	3	0	0	0	3
MAT 171	Precalculus Algebra	3	2	0	0	4
						7
Major Core Courses						
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
						30

Other Major Courses

BIO 168	Anatomy & Physiology I	3	3	0	0	4
BIO 169	Anatomy & Physiology II	3	3	0	0	4

8**Total Semester Hour Credits for Diploma****45****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				Credits
		Class	Lab	Clin	Exp	
General Education Courses						
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/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
or						
MAT 171	Precalculus Algebra	3	2	0	0	4
						18-19

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

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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
						16

Other Major Courses

BUS 110	Introduction to Business	3	0	0	0	3
CTS 130	Spreadsheet	2	2	0	0	3
DBA 110	Database Concepts	2	3	0	0	3
LOG 211	Distribution Management	3	0	0	0	3
						12

Major Elective (Select 2 Courses):

ACC 121, BUS 137, BUS 225, BUS 240, LOG 225, SPA 120						6-7
						18-19

Other Required Courses

ACA 122	College Transfer Success	0	2	0	0	1
						1

Total Hours for Graduation**67-68****SUPPLY CHAIN MANAGEMENT DIPLOMA - D25620**

		Hrs Work					
		Class	Lab	Clin	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	
						6-7	

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
						13

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
						18

Total Hours for Graduation**37-38**

SUPPLY CHAIN MANAGEMENT CERTIFICATE - C25620A

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
Major Core Courses						
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
						15

LOGISTICS ANALYSIS CERTIFICATE - C25620B

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
Major Core Courses						
CIS 110	Introduction to Computers	2	2	0	0	3
CTS 130	Spreadsheet	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
						16

DISTRIBUTION MANAGEMENT CERTIFICATE - C25620C

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

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.

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education						
ENG 110	Freshman Composition	3	0	0	0	3
	or					
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
						16
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	3
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
						50

Other Major Courses

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

Other Required Courses

ACA 122	College Transfer Success	0	2	0	0	1
						1

Total Hours for Graduation **71**

HUM/FA Elective (Select 1 course)

ART 111, ART 114, ART 115, DRA 111, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 261, ENG 262, HUM 110, HUM 115, HUM 120, HUM 130, HUM 150, HUM 160, HUM 180, HUM 211, HUM 212, MUS 110, MUS 112, PHI 215, PHI 220, PHI 230, PHI 240, REL 110, REL 211, REL 212

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 Work				
		Class	Lab	Clin	Exp	Credits
COM 110	Intro. to Communication	3	0	0	0	3
	or					
COM 120	Intro Interpersonal 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 Elect.	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 Elect.	3	0	0	0	3
						15-16

Technical Core Courses

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 and Specifications	2	2	0	0	3
						18

Other Major Courses

BPR 111	Print Reading	1	2	0	0	2
CIS 110	Introduction to Computer	2	2	0	0	3
DFT 151	CAD I	2	3	0	0	3
ISC 112	Industrial Safety	2	0	0	0	2
MAC 121	Intro. to CNC	2	0	0	0	2
WLD 116	SMAW (Stick) Plate/Pipe	1	9	0	0	4
WLD 122	GMAW (MIG) Plate/Pipe	1	6	0	0	3
WLD 132	GTAW (TIG) Plate/Pipe	1	6	0	0	3
WLD 151	Fabrication I	2	6	0	0	4
WLD 251	Fabrication II	1	6	0	0	3
WLD 261	Certification Practices	1	3	0	0	2
WLD 262	Inspection and Testing	2	2	0	0	3
WLD 265	Automated Welding/Cutting	2	6	0	0	4
						38

Other Required Courses

ACA 122	College Transfer Success	0	2	0	0	1
						1

Total Semester Hour Credits for AAS Degree**72-73****HUM/FA Elective (Select 1 course)**

ART 111, ART 114, ART 115, DRA 111, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 261, ENG 262, HUM 110, HUM 115, HUM 120, HUM 130, HUM 150, HUM 160, HUM 180, HUM 211, HUM 212, MUS 110, MUS 112, PHI 215, PHI 220, PHI 230, PHI 240, REL 110, REL 211, REL 212

SOC/BEH Elective (Select 1 course)

ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, HIS 111, HIS 112, HIS 121, 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

WELDING DIPLOMA – D50420

		Hrs Work				Credits
		Class	Lab	Clin	Exp	
General Education						
ENG 110	Freshman Composition	3	0	0	0	3
	or					
ENG 111	Writing and Inquiry	3	0	0	0	3
MAT 110	Mathematical Measurement	2	2	0	0	3
	or					
MAT 121	Algebra/Trigonometry I	2	2	0	0	3
						6
Technical Core Courses						
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 and Specifications	2	2	0	0	3
						18
Other Major Courses						
CIS 110	Introduction to Computer	0	2	0	0	3
DFT 151	CAD I	2	3	0	0	3
MAC 121	Intro to CNC	2	0	0	0	2
WLD 122	GMAW (MIG) Plate/Pipe	1	6	0	0	3
WLD 132	GTAW (TIG) Plate/Pipe	1	6	0	0	3
WLD 151	Fabrication I	2	6	0	0	4
WLD 261	Certification Practices	1	3	0	0	2
WLD 262	Inspection and Testing	2	2	0	0	3
						23
Total Hours for Graduation						47

WELDING TECHNOLOGY CERTIFICATE – GMAW (MIG) – C50420A

		Hrs Work				Credits
		Class	Lab	Clin	Exp	
Technical Core Courses						
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
						9
Other Major Courses						
BPR 111	Print Reading	1	2	0	0	2
WLD 122	GMAW (MIG) Plate/Pipe	1	6	0	0	3
						5
Total Semester Hour Credits for Certificate						14

WELDING TECHNOLOGY CERTIFICATE SMAW (STICK) – C50420B

		Hrs Work				Credits
		Class	Lab	Clin	Exp	
Technical Core Courses						
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
						10
Other Major Courses						
BPR 111	Print Reading	1	2	0	0	2
WLD 116	SMAW (Stick) Plate/Pipe	1	9	0	0	4
						6
Total Semester Hour Credits for Certificate						16

WELDING TECHNOLOGY CERTIFICATE GTAW (TIG) – C50420C

		Hrs Work				Credits
		Class	Lab	Clin	Exp	
Technical Core Courses						
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
						9
Other Major Courses						
BPR 111	Print Reading	1	2	0	0	2
CIS 110	Introduction to Computer	1	2	0	0	3
WLD 132	GTAW (TIG) Plate/Pipe	1	6	0	0	3
						8
Total Semester Hour Credits for Certificate						18

WELDING TECHNOLOGY CERTIFICATE FABRICATION – C50420D

		Hrs Work				Credits
		Class	Lab	Clin	Exp	
Other Major Courses						
BPR 111	Print Reading	1	2	0	0	2
CIS 110	Introduction to Computer	1	2	0	0	3
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
Total Semester Hour Credits for Certificate						14

WELDING TECHNOLOGY CERTIFICATE GENERAL WELDING – C50420E

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

WELDING TECHNOLOGY CERTIFICATE BASIC WELDING – C50420F

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
Technical Core Courses						
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
Other Major Courses						
ISC 112	Industrial Safety	2	0	0	0	2
Total Semester Hour Credits for Certificate						15

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				Credits
		Class	Lab	Clin	Exp	
Developmental Studies						
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 II	2.5	1	0	0	3
DRE 098	Integrated Reading and Writing III	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

INSTRUCTIONAL SERVICE AGREEMENTS

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.

		Hrs Work				Credits
		Class	Lab	Clin	Exp	
General Education Courses						
ENG 111	Writing and Inquiry	3	0	0	0	3
ENG 112	Argument-Based Research	3	0	0	0	3
	Math Elective	3	0-2	0	0	3-4
	Humanities/Fine Arts Core Elect.	3	0	0	0	3
	Social/Beh. Sciences Elective (Select options below)	0	0	0	0	3

Major Core Courses

BIO 111	General Biology I	3	3	0	0	4
BIO 112	General Biology II	3	3	0	0	4
	Chemistry Elective I	3	3	0	0	4
-	Chemistry Elective II	3	3	0	0	4
*BTC 150	Bioethics	3	0	0	0	3
*BTC 181	Basic Lab Techniques	3	3	0	0	4
	Microbiology	3	3	0	0	4
	Genetics Elective	3	0-3	0	0	3-4
*BTC 285	Cell Culture	2	3	0	0	3
MAT 152	Statistical Methods I	3	2	0	0	4
CIS 110	Introduction to Computers	2	2	0	0	3
ACA 122	College Transfer Success	0	2	0	0	1
	Major Hours Electives (See Below)					

12**Total Credits for AAS Degree****68-70****Recommended Electives:****Microbiology Electives (pick one):**

BIO 275 Microbiology

*BTC 275 Industrial Microbiology

Chemistry Elective I (pick one):

*CHM 131 Introduction to Chemistry AND CHM 131A Introduction to Chemistry Lab

or

CHM 151 General Chemistry I

Chemistry Elective II (pick one):

*CHM 132 Organic and Biochemistry

CHM 152 General Chemistry II

Genetics Electives (pick one):

*BTC 250 Principles of Genetics
BIO 250 Genetics

Mathematics Electives (pick one):

MAT 171 Precalculus Algebra
MAT 143 Quantitative Literacy

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 286 Immunological Techniques
*BTC 270 Recombinant DNA Technology
*BTC 287 Advanced Molecular Techniques
*BTC 281 Bioprocessing Techniques
*BTC 182 Pharma Lab Tech I
*BTC 183 Pharma Lab Tech II
*BTC 288 Biotechnology Experience
*WBL 111/WBL 112 Work Based Learning I
*CHM 263 Analytical Chemistry

Research/Forensics Lab Tech:

*BTC 270 Recombinant DNA Technology
*BTC 281 Bioprocess Techniques
*BTC 286 Immunological Techniques or *BTC 287 Advanced Molecular Techniques

Pharmaceutical/QC Lab Tech:

*CHM 263 Analytical Chemistry

*BTC 182 Pharma Tech I

*BTC 183 Pharma Tech II

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

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
General Education						
BIO 168	Anatomy and Physiology I	3	3	0	0	4
BIO 169	Anatomy and Physiology II	3	3	0	0	4
BIO 175	General Microbiology	2	2	0	0	3
CHM 130	Gen, Org, & Biochemistry	3	0	0	0	3
ENG 111	Expository Writing	3	0	0	0	3
ENG 114	Prof. Research & Reporting	3	0	0	0	3

	or					
ENG 112	Writing/Research in Disciplines	3	0	0	0	3
and COM 231	Public Speaking	3	0	0	0	3
PSY 150	General Psychology	3	0	0	0	3
and SOC 210	Intro to Sociology	3	0	0	0	3
	or					
*SOC 240	Social Psychology	3	0	0	0	3
HUM 115	Critical Thinking	3	0	0	0	3

Major Core Courses

*DEN 110	Orofacial Anatomy	2	2	0	0	3
*DEN 111	Infection/Hazard Control	2	0	0	0	2
*DEN 112	Dental Radiography	2	3	0	0	3
*DEN 120	Dental Hyg Preclinic Lec	2	0	0	0	2
*DEN 121	Dental Hygiene Preclin Lab	0	6	0	0	2
*DEN 123	Nutrition/Dental Health	2	0	0	0	2
*DEN 124	Periodontology	2	0	0	0	2
*DEN 125	Dental Office Emergencies	1	0	0	0	1
*DEN 130	Dental Hygiene Theory I	2	0	0	0	2
*DEN 131	Dental Hygiene Clinic I	0	0	9	0	3
*DEN 140	Dental Hygiene Theory II	1	0	0	0	1
*DEN 141	Dental Hygiene Clinic II	0	0	6	0	2
*DEN 220	Dental Hygiene Theory III	2	0	0	0	2
*DEN 221	Dental Hygiene Clinic III	0	0	12	0	4
*DEN 222	General & Oral Pathology	2	0	0	0	2
*DEN 223	Dental Pharmacology	2	0	0	0	2
*DEN 224	Materials and Procedures	1	3	0	0	2
*DEN 230	Dental Hygiene Theory IV	1	0	0	0	1
*DEN 231	Dental Hygiene Clinic IV	0	0	12	0	4
*DEN 232	Community Dental Health	2	0	3	0	3
*DEN 233	Professional Development	2	0	0	0	2

47

Total Credit Hours Required for Degree

73

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

This program has special admissions requirements. These requirements are in addition to those completed for the College. Please visit www.halifaxcc.edu to review the requirements (click on For Students >Programs of Study > Dental Hygiene). Students must apply and be formally admitted to the program to take any DEN courses.

*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 (HFMA), the Certified Patient Account Manager (CPAM) and the Certified Manager of Patient Accounts (CMPA) examinations.

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education						
*ACA 111	College Student Success	0	2	0	0	1
	or					
ACA 122	College Transfer Success	0	2	0	0	1
BUS 110	Introduction to Business	3	0	0	0	3
CIS 110	Introduction to Computers	2	2	0	0	3
ENG 111	Writing and Inquiry	3	0	0	0	3
BUS 151	People Skills	3	0	0	0	3
ACC 120	Principles of Financial Accounting	3	2	0	0	4
ACC 121	Principles of Managerial Accounting	1	3	0	0	2
MAT 143	Quantitative Literacy	3	0	0	0	3
	or					
MAT 152	Statistical Methods I	3	0	0	0	3
	or					
MAT 171	Precalculus Algebra	3	0	0	0	3
PSY 150	General Psychology	3	0	0	0	3
	or					
SOC 210	Introduction to Sociology	3	0	0	0	3

	or					
ECO 251	Principles of Microeconomics	3	0	0	0	3
COM 120	Interpersonal Communication	3	0	0	0	3
	or					
COM 231	Public Speaking	3	0	0	0	3
PHI 240	Introduction to Ethics	3	0	0	0	3
	or					
HUM 115	Critical Thinking	3	0	0	0	3
	or					
MUS 110	Music Appreciation	3	0	0	0	3
ACC 140		3	0	0	0	3
	or					
ACC 150		3	0	0	0	3

Major Core Courses

*HMT 110	Introduction to Healthcare Mgmt.	3	0	0	0	3
*HMT 210	Medical Insurance	3	0	0	0	3
*HMT 212	Management of Healthcare Org.	3	0	0	0	3
*HMT 215	Legal Aspects of Healthcare Admin.	3	0	0	0	3
*HMT 220	Healthcare Financial Management	4	0	0	0	4
*HMT 225	Practice Management Simulation	2	2	0	0	3
*MED 121	Medical Terminology I	3	0	0	0	3
	and					
*MED 122	Medical Terminology II	3	0	0	0	3
*BUS 153	Human Resource Management	3	0	0	0	3
*WBL 110	World of Work	1	0	0	0	1
*WBL 112	Work Based Learning I	0	0	0	20	2

Total Semester Hour Credits for AAS Degree

66

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

Students 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.

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
General Education						
BIO 163	Basic Anatomy & Physiology	4	2	0	0	5
ENG 111	Writing and Inquiry	3	0	0	0	3
ENG 112	Argument-Based Research	3	0	0	0	3
PHY 110	Conceptual Physics	3	0	0	0	3
	Humanities Elective	3	0	0	0	3
MAT 121	Algebra/Trigonometry	2	2	0	0	3
PSY 150	General Psychology	3	0	3	0	3

Humanities Elective: HUM 115 or PHI 240

*SON 110	Introduction to Sonography	1	3	3	0	3
*SON 111	Sonographic Physics	3	3	0	0	4
*SON 120	SON Clinical Education I	0	0	15	0	5
*SON 121	SON Clinical Education II	0	0	15	0	5
*SON 130	Abdominal Sonography I	2	3	0	0	3
*SON 131	Abdominal Sonography II	1	3	0	0	2
*SON 140	Gynecologic Sonography	2	0	0	0	2
*SON 220	SON Clinical Education III	0	0	24	0	8
*SON 221	SON Clinical Education IV	0	0	24	0	8
*SON 222	Selected SON Clinical Ed	0	0	6	0	2
*SON 225	Case Studies	0	3	0	0	1
*SON 241	Obstetrical Sonography I	2	0	0	0	2
*SON 242	Obstetrical Sonography II	2	0	0	0	2
*SON 250	Vascular Sonography	1	3	0	0	2
*SON 289	Sonographic Topics	2	0	0	0	2

Other Required Courses

*ACA 111	College Student Success	0	2	0	0	1
	or					
ACA 122	College Transfer Success	0	2	0	0	1
						1
Total Semester Hour Credits for AAS Degree						75

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

This program has special admissions requirements. These requirements are in addition to those completed for the College. Please visit www.pittcc.edu to review the requirements (click on Health Sciences > Admissions). Students must apply and be formally admitted to the program to take SON courses.

Degree granted from Pitt Community College.

NUCLEAR MEDICINE TECHNOLOGY– A45460

Instructional Service Agreement with Pitt Community College

The Nuclear Medicine Technology curriculum provides the clinical and didactic experience necessary to prepare students to qualify as entry-level nuclear medicine technologists. Students will acquire the knowledge and skills necessary to properly perform clinical procedures. These skills include patient care, use of radioactive materials, operation of imaging and counting instrumentation, and laboratory procedures.

Graduates may be eligible to apply for certification/registration examinations given by the Nuclear Medicine Technology Certification Board and the American Registry of Radiologic Technologists.

		Hrs Work				
		Class	Lab	Clin	Exp	Credits
ACA 111	College Student Success	0	2	0	0	1
	or					
ACA 122	College Transfer Success	0	2	0	0	1
ENG 111	Writing and Inquiry	3	0	0	0	3
ENG 112	Argument-Based Research	3	0	0	0	3
MAT 121	Algebra/Trigonometry	2	2	0	0	3
PSY 150	General Psychology	3	0	3	0	3
	Biology Elective					See Options Below
	Humanities Elective					See Options Below
*HSC 110	Orientation to Health Careers					

Biology Electives: BIO 163 or [BIO 168 & BIO 169];

Humanities Elective: HUM 115 or PHI 240

Major Core Courses

*NMT 110	Intro to Nuclear Medicine	2	0	0	0	2
*NMT 110A	Intro Nuclear Medicine Lab	0	3	0	0	1
*NMT 126	Nuclear Physics	2	0	0	0	2
*NMT 132	Overview-Clinical Nuclear Med	2	0	6	0	4
*NMT 134	Nuclear Pharmacy	2	0	0	0	2
*NMT 136	Health Physics	2	0	0	0	2
*NMT 211	NMT Clinical Practice I	0	0	21	0	7
*NMT 212	Procedures for Nuclear Med I	2	0	0	0	2
*NMT 212A	Procedures for Nuclear Med Lab	0	3	0	0	1
*NMT 214	Radiobiology	2	0	0	0	2
*NMT 215	Non-Imaging Instrument	1	3	0	0	2
*NMT 218	Computers in Nuclear Med	2	0	0	0	2
*NMT 221	NMT Clinical Practice II	0	0	21	0	7
*NMT 222	Procedures for Nuclear Med II	2	0	0	0	2
*NMT 222A	Procedures for Nuclear Med Lab	0	3	0	0	1
*NMT 289	Nuclear Med Tech Topics	2	3	0	0	3
*PET 110	Intro to PET	2	0	0	0	2
*PET 235	Cross Sectional Anatomy	3	0	0	0	3

Total Semester Hour Credits for AAS Degree

68

Courses with an asterisk () are not offered at Nash Community College.

This program has special admissions requirements. These requirements are in addition to those completed for the College. Please visit www.pittcc.edu to review the requirements (click on Health Sciences > Admissions). Students must apply and be formally admitted to the Medical Sonography program to take any NMT and PET courses.

Degree granted from Pitt Community College.

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