

NORTH CAROLINA COMMUNITY COLLEGE SYSTEM

Dr. James C. Williamson President

July 18, 2016

MEMORANDUM

TO: Presidents

Chief Academic Officers

FROM: Wesley E. Beddard, Associate Vice President

Programs

SUBJECT: State Board Action on July 15, 2016

Revised and Archived Curriculum Standards

On July 15, 2016, the State Board of Community Colleges approved archiving the following curriculum standards due to lack of enrollment:

Alternative Energy Technology: Biofuels (A20130)

Automotive Management (A60320)

Cardiovascular/Vascular Interventional Technology (Diploma) (D45140)

Court Reporting and Captioning (A25140) Environmental Biotechnology (A20150) Fine and Creative Woodworking (A30160)

Furniture Production Technology (A50180)

Furniture Production Technology/Design and Product Development (A5018A)

Gaming Management (A25250) Insurance (Certificate) (C25280)

Laboratory Technology (A20160)

Low Impact Development (A40290)

Medical Transcription (Diploma) (D25320)*

Office Administration/Legal (A2537A)*

Office Administration/Virtual Office Assistance (A2537B)*

Optical Laboratory Mechanics (Certificate) (C45540)

Poultry Management Technology (A15130)

Pulp and Paper Technology (A50430)

Quality Assurance and Continuous Improvement (A50550)

Resort and Spa Management (A55410)

Travel and Tourism Technology (A25440)

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In addition, the State Board of Community Colleges approved revisions to the following curriculum standards:

Associate in Engineering (A10500)
Associate in Fine Arts in Music (A10700)
Biomedical Equipment Technology (A50100)
Cardiovascular Technology (Invasive and Non-Invasive) (A45170)
Healthcare Management Technology (A25200)*
Medical Office Administration (A25310)*
Office Administration (A25370)*
Taxidermy (Diploma) (D30380)

Curriculum program titles marked with the (*) are as a result of recommendations provided by the Office Administration Alignment Project (OAAP) participants. We would like to express our appreciation to the participants of the OAAP and to Pitt Community College for the leadership they provided as the lead resource college for the OAAP.

Please be aware that you must implement the revised curriculum standards no later than one year after the effective term. You must update your college's electronic program of study and receive approval from the System Office prior to implementation of the revised program.

An outline of the specific curriculum standard revisions are attached for your convenience. You may view all curriculum standards and courses by visiting the Academic Programs website at:

http://www.nccommunitycolleges.edu/academic-programs

If you have any questions concerning the July State Board action items listed above, please contact Ms. Jennifer Frazelle at 919.807.7120 or frazellej@nccommunitycolleges.edu.

WB/JF/gr Attachments

c: Dr. Lisa M. Chapman Ms. Elizabeth Self Ms. Jennifer Frazelle Program Coordinators

> CC16-027 Email

Outline of Curriculum Standard Revisions State Board of Community Colleges July 15, 2016

Associate in Engineering (A15100):

 Added the following courses to the list of Universal General Education Transfer Component (UGETC) humanities course selections:

ENG 241 British Literature I
ENG 242 British Literature II

Associate in Fine Arts in Music (A10700):

- Revised hours from 64-65 semester hour credits to 60-61 semester hour credits.
- Incorporated specific Universal General Education Transfer (UGETC) courses.
- Modified the core of music (MUS) courses.
- Added the following course as a requirement:

ACA 122 College Transfer Success

Biomedical Equipment Technology (A50100):

Added the following course to the core as an option:

CTI 120 Network & Sec Foundation

Cardiovascular Technology (Invasive and Non-Invasive) (A45170):

- Revised the curriculum description
- Removed the following courses from the required core:

ICT 114 Intro Cardiovascular Tech ICT 136 Cardiac Cath I
NCT 133 CV Ultrasound Prin NCT 143 Echocardiography I

• Revised the *Invasive* subject area by:

Adding the following courses:

ICT 110 Invasive Fundamentals ICT 136 Cardiac & PV Invasive I ICT 140 CV Hemodynamics I ICT 218 Invasive Pharmacology

ICT 236 CV Hemodynamics II

Removing the following courses:

ICT 244 Peripheral Vascular Cath ICT 254 Intro to Cardiac EP

• Revised the *Non-Invasive* subject area by:

Adding the following courses:

NCT 110 Echo Fundamentals NCT 133 CV Ultrasound Prin

NCT 143 Echocardiography

Office Administration Alignment Project (OAAP):

Integrated related Office Administration programs into three programs which resulted in the following revised curriculum standards with specific subject areas and recommended general education:

Healthcare Management Technology (A25200) Medical Office Administration (A25310) Office Administration (A25370)

Archived the following curriculum standards:

Health Unit Coordinator (Certificate)(C25220)

Office Administration/Legal (A2537A)

Office Administration/Virtual Office Assistance (A2537B)

Medical Transcription (Diploma) (D25320)

Voice Writing Realtime Reporting (A25460)

Taxidermy (Diploma) (D30380):

Replaced archived courses with newly approved courses resulting in forty semester hour credits required for the diploma versus the previous thirty semester hour credits.

TXY 101 Fish Taxidermy (*) was replaced with the following new courses:

TXY 131 Fish Preparation

TXY 133 Fish Finishing

TXY 103 Mammal Taxidermy (*) was replaced with the following new courses

TXY 121 Mammal Preparation

TXY 122 Mammal Qual. Control & Mounting

TXY 123 Mammal Finishing

TXY 105 Bird Taxidermy (*) was replaced with the following new courses:

TXY 110 Bird Preparation

TXY 112 Bird Quality Control & Monitoring

TXY 114 Bird Finishing

^{*}Course archived by the Curriculum Review Committee on May 26, 2016.

Associate in Engineering (A10500) Curriculum

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.

Effective Term: Fall 2016

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 (42 SHC) The general education common course pathway includes study in the areas of English composition; humanities and fine arts; social and behavioral sciences; natural sciences and mathematics.

UNIVERSAL GENERAL EDUCATION TRANSFER COMPONENT

(Universal General Education Transfer Component (UGETC) courses will transfer for equivalency credit to all UNC institutions.) *Exceptions (i.e. courses which are not classified as UGETC) are italicized.

English Composition (6 SHC) The following two English composition courses are required:

ENG 111	Writing and Inquiry	(3 SHC)	
ENG 112	Writing/Research in the Disciplines	(3 SHC)	

Humanities/Fine Arts and Communication: Select one course from each category (6 SHC)

Humanities: Choose One:

ENG 231	American Literature I	(3 SHC)
ENG 232	American Literature II	(3 SHC)
ENG 241	British Literature I	(3 SHC)
ENG 242	British Literature II	(3 SHC)
PHI 215	Philosophical Issues	(3 SHC)
PHI 240	Introduction to Ethics	(3 SHC)
REL 110	World Religions	(3 SHC)*

(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.)

(3 SHC)

Fine Arts and Communication: Choose One:

COM 231	Public Speaking	(3 SHC)
ART 111	Art Appreciation	(3 SHC)
ART 114	Art History Survey I	(3 SHC)
ART 115	Art History Survey II	(3 SHC)
MUS 110	Music Appreciation	(3 SHC)
MUS 112	Introduction to Jazz	(3 SHC)

Social/Behavioral Sciences: One course required. Select second course. (6 SHC)

Principles of Microeconomics

Required: ECO 251

Choose One:				
HIS 111	World Civilizations I	(3 SHC)		
HIS 112	World Civilizations II	(3 SHC)		
HIS 131	American History I	(3 SHC)		
HIS 132	American History II	(3 SHC)		
POL 120	American Government	(3 SHC)		
PSY 150	General Psychology	(3 SHC)		
SOC 210	Introduction to Sociology	(3 SHC)		

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 271 Calculus I	(4 SHC)
MAT 272 Calculus II	(4 SHC)*
MAT 273 Calculus III	(4 SHC)*

Natural Sciences (12 SHC)

CHM 151 General Chemistry I	(4 SHC)
PHY 251 General Physics I	(4 SHC)
PHY 252 General Physics II	(4 SHC)

Total General Education Hours Required: 42 SHC

OTHER REQUIRED HOURS (18 SHC)

Academic Transition (1 SHC)

ACA 122 College Transfer Success (1 SHC)

Students must complete ACA 122 within the first 30 hours of enrollment.

Pre-major Elective (2 SHC)

EGR 150 Introduction to Engineering (2 SHC)

Other General Education and Pre-major Elective Hours: (15 SHC)

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

Students should choose courses appropriate to the specific university and engineering major requirements.

BIO 111	General Biology I	(4 SHC)
CHM 152	General Chemistry II	(4 SHC)
COM 110	Introduction to Communication	(3 SHC)
CSC 134	C++ Programming	(3 SHC)
CSC 151	JAVA Programming	(3 SHC)
DFT 170	Engineering Graphics	(3 SHC)
ECO 252	Principles of Macroeconomics	(3 SHC)
EGR 210	Intro to Electrical/Computer Engineering Lab	(2 SHC)
EGR 212	Logic System Design I	(3 SHC)
EGR 215	Network Theory I	(3 SHC)
EGR 216	Logic and Network Lab	(1 SHC)
EGR 220	Engineering Statics	(3 SHC)
EGR 225	Engineering Dynamics	(3 SHC)
EGR 228	Introduction to Solid Mechanics	(3 SHC)
HUM 110	Technology and Society	(3 SHC)
MAT 280	Linear Algebra	(3 SHC)
MAT 285	Differential Equations	(3 SHC)
PED 110	Fitness and Wellness for Life	(2 SHC)

^{**}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 Hours Credit (SHC) in Program: 60-61**

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.

SBCC Approved 02/20/2015; BOG approved 02/27/2015; SBCC Revised 07/15/16.

Associate in Fine Arts in Music A10700 Curriculum Standard

The Associate in Fine Arts in Music degree shall be granted for a planned program of study consisting of a minimum of 60-61 semester hours 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.

basic computer use.				
UNIVERSAL GENERAL EDUCATION TRANSFER COMPONENT (22-23 hours)				
All Universal General Education Transfer Component courses will transfer for				
equivalency cre	dit.			
English	Composition	n (6 SHC)		
I —		Writing and Inquiry	(3 SHC)	
		Writing/Research in the Disciplines	(3 SHC)	
Commu	nication and	l Humanities/Fine Arts: (3 SHC)		
Commur disciplin		manities: Select one course from the follow	wing	
A	RT 111	Art Appreciation	(3 SHC)	
		Public Speaking	(3 SHC)	
		American Literature I	(3 SHC)	
Е	NG 232	American Literature II	(3 SHC)	
E	NG 241	British Literature I	(3 SHC)	
E	NG 242	British Literature II	(3 SHC)	
M	IUS 110	Music Appreciation	(3 SHC)	
M	IUS 112	Introduction to Jazz	(3 SHC)	
P	HI 215	Philosophical Issues	(3 SHC)	
P	HI 240	Introduction to Ethics	(3 SHC)	
Social/I	Behavioral S	ciences (6 SHC)		
Select tw	o courses fro	m two different disciplines.		
Е	CO 251	Principles of Microeconomics	(3 SHC)	
E	CO 252	Principles of Macroeconomics	(3 SHC)	
Н	IIS 111	World Civilizations I	(3 SHC)	
Н	IIS 112	World Civilizations II	(3 SHC)	
Н	IIS 131	American History I	(3 SHC)	
Н	IIS 132	American History II	(3 SHC)	
P	OL 120	American Government	(3 SHC)	
P		General Psychology	(3 SHC)	
S	OC 210	Introduction to Sociology	(3 SHC)	
	Mathematics (3-4 SHC)			
Mathematics (3-4 SHC): Select one course from the following.				
		Quantitative Literacy	(3 SHC)	
M	1AT 171	Precalculus Algebra	(4 SHC)	

Natural Sciences (4 SHC)

Natural Sciences (4 SHC): Select 4 SHC from the following:

AST 111	Descriptive Astronomy (3 SHC)
	and ACT 111 A Decementing Astronomy I a

and AST 111A Descriptive Astronomy Lab (1 SHC)

AST 151 General Astronomy I (3 SHC)

and AST 151A General Astronomy I Lab (1 SHC)

BIO 110 Principles of Biology (4 SHC)
BIO 111 General Biology I (4 SHC)
CHM 151 General Chemistry I (4 SHC)
GEL 111 Geology (4 SHC)

PHY 110 Conceptual Physics (3 SHC)

and PHY 110A Conceptual Physics Lab (1 SHC)

Additional General Education: (3 SHC)

Select one course from the following discipline areas: *All courses listed below are classified as UGETC with the exception of foreign language.*

ART 111	Art Appreciation	(3 SHC)
COM 231	Public Speaking	(3 SHC)
ENG 231	American Literature I	(3 SHC)
ENG 232	American Literature II	(3 SHC)
ENG 241	British Literature I	(3 SHC)
ENG 242	British Literature II	(3 SHC)
MUS 110	Music Appreciation	(3 SHC)
MUS 112	Introduction to Jazz	(3 SHC)
PHI 215	Philosophical Issues	(3 SHC)
PHI 240	Introduction to Ethics	(3 SHC)

Any foreign language course classified as general education/humanities on the Comprehensive Articulation transfer course list.

Other Required (34-36 SHC)

Academic Transition: The following course is required (1 SHC):

ACA 122 College Transfer Success (1 SHC)

Music Theory: The following courses are required (8 SHC):

MUS 121 Music Theory I (4 SHC) MUS 122 Music Theory II (4 SHC)

Applied Music: The following courses are required (4 SHC)

MUS 161 Applied Music I (2 SHC) MUS 162 Applied Music II (2 SHC)

Class Music: The following courses are required (2 SHC):

MUS 151 Class Music I (1 SHC) MUS 152 Class Music II (1 SHC)

Ensemble: (2-4 SHC) Select 2-4 SHC from the following courses:

MUS 131 Chorus (1 SHC) MUS 132 Chorus II (1 SHC) MUS 231 Chorus III (1 SHC) MUS 232 Chorus IV (1 SHC) MUS 133 Band I (1 SHC) MUS 134 Band II (1 SHC) MUS 233 Band III (1 SHC) MUS 234 Band IV (1 SHC) MUS 135 Jazz Ensemble (1 SHC) MUS 136 Jazz Ensemble II (1 SHC) MUS 235 Jazz Ensemble III (1 SHC) MUS 236 Jazz Ensemble IV (1 SHC) MUS 137 Orchestra I (1 SHC) MUS 138 Orchestra II (1 SHC) MUS 173 Opera Production I (1 SHC) MUS 174 Opera Production II (1 SHC) MUS 273 Opera Production III (1 SHC) MUS 274 Opera Production IV (1 SHC) MUS 237 Orchestra III (1 SHC) MUS 238 Orchestra IV (1 SHC) MUS 141 Ensemble I (1 SHC) MUS 142 Ensemble II (1 SHC) MUS 241 Ensemble III (1 SHC) MUS 242 Ensemble IV (1 SHC) MUS 181 Show Choir I (4 SHC) MUS 253 Big Band (1 SHC)

An additional 15-19 SHC (depending on selection of math and ensemble courses) of courses should be selected from the courses classified as pre-major, elective, general education, or UGETC within the Comprehensive Articulation Agreement to total 60-61 semester hour credits. Students should select these courses based on their intended major and transfer institution.

Total Semester Hours Credit (SHC) in Program: 60-61*

*One semester hour of credit may be included in a 61 SHC Associate in Fine Arts in Music program of study. The transfer of this hour is not guaranteed.

Curriculum Standard for Engineering and Technology: Electrical Engineering Technology

Career Cluster: Science, Technology, Engineering, Mathematics**

Cluster Description: Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, and engineering) including laboratory and testing services, and research and development services.

Pathway: Engineering and Technology Effective Term: Fall 2016 (2016*03)

Program Majors Under Pathway				
Program Major / Classification of Instruction Programs (CIP) Code		Credential Level(s)	Program Major	
		Offered	Code	
Biomedical Equipment Technology	CIP Code: 15.0401	AAS/Diploma/Certificate	A50100	
Computer Engineering Technology	CIP Code: 15.1201	AAS/Diploma/Certificate	A40160	
Electrical Engineering Technology	CIP Code: 15.0399	AAS/Diploma/Certificate	A40180	
Electronics Engineering Technology	CIP Code: 15.0303	AAS/Diploma/Certificate	A40200	
Laser and Photonics Technology	CIP Code: 15.0304	AAS/Diploma/Certificate	A40280	
Telecommunications and Network Engineering	CIP Code: 15.0305	AAS/Diploma/Certificate	A40400	
Technology				

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

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

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

Program Description: Choose one of the following 4^{th} paragraphs to use in conjunction with the first three paragraphs of the pathway description above for documentation used to identify each Program Major:

Biomedical Equipment Technology: A course of study that prepares the students to use basic engineering principles and technical skills to install, operate, troubleshoot, and repair sophisticated devices and instrumentation used in the health care delivery system. Includes instruction in instrument calibration, design and installation testing, system safety and maintenance procedures, procurement and installation procedures, and report preparation. With an AAS degree and two years' experience, an individual should be able to become a certified Biomedical Equipment Technician.

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

Approved by the State Board of Community Colleges on August 16, 2012; Editorial Revision 12/14/12; CRC Revised—Electronic Only 05/29/13; Editorial Revision 08/19/13; Editorial Revision 08/21/13; Editorial Revision 04/22/14; Editorial Revision 02/26/15; Prefix Addition 08/01/15; CRC Revised 10/22/15; SBCC Revised 07/15/16.

^{*}Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic use of computers.

Electrical Engineering Technology: A course of study that prepares the students to apply basic engineering principles and technical skills in electrical maintenance and management or in the design, planning, construction, development, and installation of electrical systems, machines, and power generating equipment. Includes instruction in electrical circuitry, prototype development and testing, systems analysis and testing, systems maintenance, instrument calibration, and report preparation. Graduates may seek employment as technicians, engineering assistants, technical managers, or salespersons in electrical generation/distribution, industrial maintenance, electronic repair, or other fields requiring a broad-based knowledge of electrical and electronic concepts.

Electronics Engineering Technology: 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.

Laser and Photonics Technology: A course of study that prepares the students to apply basic engineering principles and technical skills for specifying, operating, and maintaining laser-based systems. Includes instruction in mathematics, science, communications, electronics, and optics courses emphasizing laboratory learning experiences that develops the hands-on skills needed. Graduates of the curriculum qualify for current and emerging employment opportunities in fiber optic communications, materials processing, laser surgery, research, and a variety of related fields.

Telecommunications and Network Engineering Technology: A course of study that prepares the students to apply basic engineering principles and technical skills for positions in the telecommunication networking industry. Includes instruction in mathematics, basic electricity, solid-state fundamentals, digital concepts, microprocessors, telecommunications and network systems with an emphasis on analyzing and troubleshooting telecommunications and network systems. Graduates should qualify for employment as electronic engineering technician, field service technician, maintenance technician, network system technician, network specialist, network systems integrator, and network administrator.

I. General Education Academic Core

[Curriculum Requirements for associate degree, diploma, and certificate programs in accordance with 1D SBCCC 400.97(3)]: Degree programs must contain a minimum of 15 semester hours including at least one course from each of the following areas: humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics. Degree programs must contain a minimum of 6 semester hours of communications. Diploma programs must contain a minimum of 6 semester hours of general education; 3 semester hours must be in communications. General education is optional in certificate programs.

Engineering and Technology: Electrical Engine	eering Technology

		n Academic Core		AAS	Diploma	Certificate
∣ Minimum G		al Education Hours Required:		15 SHC	6 SHC	0 SHC
		w are recommended general education	courses for this curriculum			
		may choose to include additional or al	-			
	_	cal curriculum needs.	ternative general cadeation			
			urses. These sources may not			
		rtificate and diploma level curriculum cou	urses. These courses may <u>not</u>			
be included in	n asso	ciate degree programs.				
Communicati	ions:					
*COM	101	Workplace Communication	3 SHC			
COM 1	110	Introduction to Communication	3 SHC	6 SHC	3-6 SHC	Optional
СОМ	120	Intro Interpersonal Com	3 SHC			
СОМ	231	Public Speaking	3 SHC			
ENG	101	Applied Communications I	3 SHC			
*ENG	102	Applied Communications II	3 SHC			
ENG	110	Freshman Composition	3 SHC			
ENG	111	Expository Writing	3 SHC			
ENG	114	Professional Research & Reporting	3 SHC			
ENG	116	Technical Report Writing	3 SHC			
	/F: A					
Humanities/I			2 SHC			
	101	Values in the Workplace				
HUM HUM	110	Technology and Society	3 SHC	3 SHC	0-3 SHC	Optional
	115	Critical Thinking	3 SHC			
HUM PHI	230 230	Leadership Development	3 SHC			
PHI	240	Introduction to Logic Introduction to Ethics	3 SHC 3 SHC			
FIII	240	introduction to Ethics	3 3110			
Social/Behavi	ioral S	Sciences:				
ECO	151	Survey of Economics	3 SHC			
ECO	251	Prin of Microeconomics	3 SHC	3 SHC	0-3 SHC	Optional
GEO	110	Introduction to Geography	3 SHC	0 0.1.0		
GEO	111	World Regional Geography	3 SHC			
GEO	131	Physical Geography I	4 SHC			
*PSY	101	Applied Psychology	3 SHC			
*PSY	102	Human Relations	2 SHC			
PSY	118	Interpersonal Psychology	3 SHC			
PSY	135	Group Processes	3 SHC			
PSY	150	General Psychology	3 SHC			
*SOC	105	Social Relationships	3 SHC			
SOC	210	Introduction to Sociology	3 SHC			
SOC	215	Group Process	3 SHC			
Natural Scien	ices/N	/lathematics:				
MAT	120	Geometry and Trigonometry	3 SHC			
MAT	121	Algebra/Trigonometry I	3 SHC	3 SHC	0-3 SHC	Optional
MAT	161	College Algebra	3 SHC	5 51.10	0 0 0	
MAT	171	Precalculus Algebra	3 SHC			
MAT	175	Precalculus	4 SHC			
MAT	223	Applied Calculus	3 SHC			
MAT	271	Calculus I	4 SHC			

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- **II. Major Hours**. AAS, diploma, and certificate programs must include courses which offer specific job knowledge and skills. Work-based learning may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit. Below is a description of each section under Major Hours.
- **A. Technical Core.** The technical core is comprised of specific courses which are required for all Program Majors under this Curriculum Standard. A diploma program offered under an approved AAS program standard or a certificate which is the highest credential level awarded under an approved AAS program standard must include a minimum of 12 semester hours credit derived from the curriculum core courses or core subject area of the AAS program.
- **B. Program Major(s).** The Program Major must include a minimum of 12 semester hour's credit from required subjects and/or courses. The Program Major is in addition to the technical core.
- **C. Other Major Hours.** Other major hours must be selected from prefixes listed on the curriculum standard. A maximum of 9 semester hours of credit may be selected from any prefix listed, with the exception of prefixes listed in the core.

Engineering and Technology: Electrical Engineering Technology			AAS	Diploma	Certificate
Minimum Major H	49 SHC	30 SHC	12 SHC		
- Iviiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	- Cars Required.				12 0110
A. Technical Core:			24-28 SHC		
Analog					
ELN 131	Analog Electronics I	4 SHC			
Circuits					
ELC 131 <i>OR</i>	Circuit Analysis I	4 SHC			
ELC 138 <i>AND</i>	DC Circuit Analysis	4 SHC			
ELC 139	AC Circuit Analysis	4 SHC			
Digital					
ELN 133	Digital Electronics	4 SHC			
the same program maj	s). one program major plus additional cours or for a minimum of (12) semester hours ngineering Technology		n		
ELC 128 OR	Intro to PLC	3 SHC			
ELN 260	Prog Logic Controllers	4 SHC			
ELC 135	Electrical Machines I	3 SHC			
ELC 231	Electric Power Systems	4 SHC			
	Engineering Technology				
	east 2 courses:				
ATR 214	Advanced PLCs	4 SHC			
ELC 128	Intro to PLC	3 SHC			
ELC 228	PLC Applications	4 SHC			
ELN 232	Intro to Microprocessors	4 SHC			
ELN 234	Communication Systems	4 SHC			
ELN 260	Prog Logic Controllers	4 SHC			

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C	to attack attack Tarabana la ma			
	ingineering Technology			
Choose one CET 111	Computer Upgrade/Repair I	3 SHC		
CTI 130	OS and Device Foundation	6 SHC		
CTS 120	Hardware/Software Support	3 SHC		
C13 120	naruware/Sortware Support	3 3FIC		
Choose at le	east one:			
CSC 133	C Programming	3 SHC		
CSC 134	C ++ Programming	3 SHC		
CSC 139	Visual BASIC Prog	3 SHC		
CSC 151	JAVA Programming	3 SHC		
ELN 232	Intro to Microprocessors	4 SHC		
NOS 110	Operating Systems Concepts	3 SHC		
	nications and Networking Engineering Te			
CET 130	Operating System Prin	3 SHC		
Choose one	pair of courses:			
TNE 111	Campus Networks I	3 SHC		
AND	•			
TNE 121	Campus Networks II	3 SHC		
	OR .			
NET 125	Introduction to Networks	3 SHC		
AND				
NET 126	Routing Basics	3 SHC		
Lacor and D	hotonics Engineering Technology			
LEO 211	Photonics Technology	7 SHC		
_				
LEO 212	Photonics Applications	4 SHC		
Biomedical	Equipment Technology			
BMT 111	Intro to Biomed Field	2 SHC		
BMT 212	BMET Instrumentation I	6 SHC		
Choose at le	east one:			
CET 111	Computer Upgrade/Repair I	3 SHC		
CTI 120	Network & Sec Foundation	3 SHC		
NET 110	Networking Concepts	3 SHC		
	- ,			1
NET 125	Introduction to Networks	3 SHC		

C. Other Major Hours. *To be selected from the following prefixes:*

AHR, ALT, ATR, BAT, BIO, BMT, BPR, CET, CHM, CIS, CSC, CTI, CTS, DBA, DEA, DFT, EGR, ELC, ELN, EPP, HYD, ISC, LEO, MAT, MEC, MNT, NET, NOS, OMT, PCI, PHY, SEC, SGD, SST, TNE, WBL, WEB, and WLD

Up to two semester hour credits may be selected from ACA.

Up to three semester hour credits may be selected from the following prefixes: ARA, ASL, CHI, FRE, GER, ITA, JPN, LAT, POR, RUS and SPA.

III. Other Required Hours

A college may include courses to meet graduation or local employer requirements in a certificate (0-1 SHC), diploma (0-4 SHC), or an associate in applied science (0-7 SHC) program. These curriculum courses shall be selected from the Combined Course Library and must be approved by the System Office prior to implementation. Restricted, unique, or free elective courses may not be included as other required hours.

IV. Employability Competencies

Fundamental competencies that address soft skills vital to employability, personal, and professional success are listed below. Colleges are encouraged to integrate these competencies into the curriculum by embedding appropriate student learning outcomes into one or more courses or through alternative methods.

- **A. Interpersonal Skills and Teamwork** The ability to work effectively with others, especially to analyze situations, establish priorities, and apply resources for solving problems or accomplishing tasks.
- **B.** Communication The ability to effectively exchange ideas and information with others through oral, written, or visual means
- **C. Integrity and Professionalism** Workplace behaviors that relate to ethical standards, honesty, fairness, respect, responsibility, self-control, criticism and demeanor.
- **D. Problem-solving** The ability to identify problems and potential causes while developing and implementing practical action plans for solutions.
- **E. Initiative and Dependability** Workplace behaviors that relate to seeking out new responsibilities, establishing and meeting goals, completing tasks, following directions, complying with rules, and consistent reliability.
- **F. Information processing** The ability to acquire, evaluate, organize, manage, and interpret information.
- **G.** Adaptability and Lifelong Learning The ability to learn and apply new knowledge and skills and adapt to changing technologies, methods, processes, work environments, organizational structures and management practices.
- **H. Entrepreneurship** The knowledge and skills necessary to create opportunities and develop as an employee or self-employed business owner.

*An **Employability Skills Resource Toolkit** has been developed by NC-NET for the competencies listed above. Additional information is located at: http://www.nc-net.info/employability.php

Summary of Required Semester Hour Credits (SHC) for each credential:

	AAS	Diploma	Certificate
Minimum General Education Hours	15	6	0
Minimum Major Hours	49	30	12
Other Required Hours	0-7	0-4	0-1
Total Semester Hours Credit (SHC)	64-76	36-48	12-18

^{**}The North Carolina Career Clusters Guide was developed by the North Carolina Department of Public Instruction and the North Carolina Community College system to link the academic and Career and Technical Education programs at the secondary and postsecondary levels to increase student achievement. Additional information about Career Clusters is located at: http://www.nc-net.info/NC career clusters guide.php or http://www.careertech.org.

CURRICULUM STANDARD

Effective Term Fall 2016 [2016*03]

Curriculum Program Title (Invasive and Non-Invasive)

Concentration (not applicable)

Cardiovascular Technology (Code (Invasive and Non-Invasive)

Code (Code (Invasive and Non-Invasive) (CIP (Code (Invasive and Non-Invasive)) (CIP (Code (Invasive and Code (Invas

Curriculum Description

Cardiovascular Technology is an allied health career that prepares individuals to develop attributes necessary to perform procedures leading to diagnosis and treatment of cardiovascular disease.

Course work emphasizes technical and cognitive skills by applying the concepts of echocardiography, electrocardiography, cardiac catheterization, and cardiovascular anatomy and physiology.

Graduates selecting the non-invasive track (Cardiac Sonography) are eligible for the Noninvasive Registry to become a Registered Diagnostic Cardiac Sonographer through American Registry of Medical Sonography (ARDMS) or a Registered Cardiac Sonography (RCS) through Cardiovascular Credentialing International, Inc. (CCI). Graduates selecting the invasive track (Cardiovascular Invasive Specialist) may be eligible for the Invasive Registry to become a Registered Cardiovascular Invasive Specialist (RCIS) through Cardiovascular Credentialing International, Inc. (CCI).

Curriculum Requirements*

[for associate degree, diploma, and certificate programs in accordance with 1D SBCCC 400.97 (3)]

- **General Education.** Degree programs must contain a minimum of 15 semester hours including at least one course from each of the following areas: humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics. Degree programs must contain a minimum of 6 semester hours of communications. Diploma programs must contain a minimum of 6 semester hours of general education; 3 semester hours must be in communications. General education is optional in certificate programs.
- **Major Hours**. AAS, diploma, and certificate programs must include courses which offer specific job knowledge and skills. Work-based learning may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit. (See second page for additional information.)
- III. Other Required Hours. A college may include courses to meet graduation or local employer requirements in a certificate, diploma, or associate in applied science program. These curriculum courses shall be selected from the Combined Course Library and must be approved by the System Office prior to implementation. Restricted, unique, or free elective courses may not be included as other required hours.

	AAS	Diploma	Certificate
Minimum General Education Hours	15	6	0
Minimum Major Hours	49	30	12
Other Required Hours	0-7	0-4	0-1
Total Semester Hours Credit (SHC)	64-76	36-48	12-18

^{*}Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic use of computers.

Major Hours

[ref. 1D SBCCC 400.97 (3)]

- **A. Core.** The subject/course core is comprised of subject areas and/or specific courses which are required for each curriculum program. A diploma program offered under an approved AAS program standard or a certificate which is the highest credential level awarded under an approved AAS program standard must include a minimum of 12 semester hours credit derived from the subject/course core of the AAS program.
- **B. Concentration** (*if applicable*). A concentration of study must include a minimum of 12 semester hours credit from required subjects and/or courses. The majority of the course credit hours are unique to the concentration. The required subjects and/or courses that make up the concentration of study are in addition to the required subject/course core.
- **C. Other Major Hours.** Other major hours must be selected from prefixes listed on the curriculum standard. A maximum of 9 semester hours of credit may be selected from any prefix listed, with the exception of prefixes listed in the core or concentration. Work-based learning may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit.

Cardiovascular Technology (Invasive and Non-Invasive) A45170

					AAS	Diploma	Certificate
Minimu	ım Ma	jor Ho	urs Required		49 SHC	30 SHC	12 SHC
4. C	ORE				45	NR	NR
Require	ed Cou	ırses:					
	NCT	134	CV Anatomy and Physiology	4 SHC			
	ICT	113	Electrocardiography	4 SHC			
Required	d Subje	ect Area	: (select one sequence)				
nvasive	!						
	ICT	110	Invasive Fundamentals	3 SHC			
	ICT	136	Cardiac & PV Invasive I	6 SHC			
	ICT	140	CV Hemodynamics I	2 SHC			
	ICT	214	Cardiac & PV Invasive II	9 SHC			
	ICT	218	Invasive Pharmacology	2 SHC			
	ICT	234	Cardiac & PV Invasive III	13 SHC			
	ICT	236	CV Hemodynamics II	2 SHC			
Non-inva	asive						
	NCT	110	Echo Fundamentals	3 SHC			
	NCT	133	CV Ultrasound Prin	3 SHC			
	NCT	143	Echocardiography I	6 SHC			
	NCT	251	Echocardiography II	8 SHC			
	NCT	253	Hemodynamic Echo Prin	3 SHC			
	NCT	273	Echocardiography III	14 SHC			
3. C	CONCE	NTRAT	ION (Not applicable)				
c. c	OTHER	MAJO	R HOURS				
		-	from the following prefixes: BIO, C . NCT, OST, PHY, PSY, and WBL	HM, CIS, CSC,			
L	Up to two semester hour credits may be selected from ACA.						
f	ollowi		emester hour credits may be sele lixes: ARA, ASL, CHI, FRE, GER, IT	-			

CURRICULUM STANDARD

Effective Term Fall 2017 [2017*03]

Curriculum Program Title	Healthcare Management Technology	Program Code	A25200
Concentration	(not applicable)	CIP	51.0701

Curriculum Description

The Healthcare Management Technology curriculum prepares individuals for employment in healthcare business and financial operations in areas such as general healthcare management, entrepreneurship, and long-term care.

Course work includes medical office management, financial management, legal aspects of healthcare, medical insurance and billing analysis, and other topics depending on the subject area selected within this curriculum.

Graduates should qualify for employment opportunities in a variety of healthcare settings including hospitals, medical offices, outpatient clinics, long-term care facilities, and insurance companies. Industry recognized certifications may be available for graduates with work experience.

Curriculum Requirements*

[for associate degree, diploma, and certificate programs in accordance with 1D SBCC 400.97(3)

- **General Education.** Degree programs must contain a minimum of 15 semester hours including at least one course from each of the following areas: humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics. Degree programs must contain a minimum of 6 semester hours of communications. Diploma programs must contain a minimum of 6 semester hours of general education; 3 semester hours must be in communications. General education is optional in certificate programs.
- **Major Hours**. AAS, diploma, and certificate programs must include courses which offer specific job knowledge and skills. Work-based learning may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit. (See second page for additional information.)
- II. Other Required Hours. A college may include courses to meet graduation or local employer requirements in a certificate, diploma, or associate in applied science program. These curriculum courses shall be selected from the Combined Course Library and must be approved by the System Office prior to implementation. Restricted, unique, or free elective courses may not be included as other required hours.

	AAS	Diploma	Certificate
Minimum General Education Hours	15	6	0
Minimum Major Hours	49	30	12
Other Required Hours	0-7	0-4	0-1
Total Semester Hours Credit (SHC)	64-76	36-48	12-18

^{*}Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic use of computers.

Minimun	n Gene	eral Education Hours Required:		15 SHC	6 SHC	0 SHC
curriculun	n stan	pelow are recommended general dard. Colleges may choose to inclu on courses to meet local curriculum	de additional or alternative			
Communic	ation:			6 SHC	3-6 SHC	Optional
CON	1 110	Introduction to Communication Intro Interpersonal Com	3 SHC 3 SHC			
		Public Speaking U	3 SHC			
		Writing and Inquiry U	3 SHC			
ENG		Writing/Research in the Disc U	3 SHC			
		Prof Research & Reporting	3 SHC			
ENG		Technical Report Writing	3 SHC			
Humanitie	s/Fine	Arts:				
ART		Art Appreciation U	3 SHC	3 SHC	0-3 SHC	Optional
HUN		Technology and Society	3 SHC			
		Critical Thinking	3 SHC			
		Leadership Development	3 SHC			
MUS	110	Music Appreciation U	3 SHC			
PHI	230	Introduction to Logic	3 SHC			
PHI	240	Introduction to Ethics U	3 SHC			
Social /Bel	naviora	l Sciences:		2 5116	0.25116	Outlevel
ECO	151	Survey of Economics	3 SHC	3 SHC	0-3 SHC	Optional
ECO	251	Prin of Microeconomics U	3 SHC			
ECO	252	Prin of Macroeconomics U	3 SHC			
POL	120	American Government U	3 SHC			
PSY	118	Interpersonal Psychology	3 SHC			
PSY	150	General Psychology U	3 SHC			
SOC	210	Introduction to Sociology U	3 SHC			
Natural Sci	ences/	'Mathematics:				
		Math Measurement and Literacy	3 SHC	3-4 SHC	0-3 SHC	Optional
		Algebra/Trigonometry I	3 SHC			
		Quantitative Literacy U	3 SHC			
		Statistical Methods I U	4 SHC			
MAT	171	Precalculus Algebra U	4 SHC			
Comprehen	sive Art Jnivers	rsal General Education Transfer Componen iculation Agreement. UGETC courses are gity of North Carolina senior institutions as e	uaranteed to transfer to any of			

Major Hours

[ref. 1D SBCCC 400.97(3)]

- **A. Core.** The subject/course core is comprised of subject areas and/or specific courses which are required for each curriculum program. A diploma program offered under an approved AAS program standard or a certificate which is the highest credential level awarded under an approved AAS program standard must include a minimum of 12 semester hours credit derived from the subject/course core of the AAS program.
- **B. Concentration** (*if applicable*). A concentration of study must include a minimum of 12 semester hours credit from required subjects and/or courses. The majority of the course credit hours are unique to the concentration. The required subjects and/or courses that make up the concentration of study are in addition to the required subject/course core.
- **C. Other Major Hours.** Other major hours must be selected from prefixes listed on the curriculum standard. A maximum of 9 semester hours of credit may be selected from any prefix listed, with the exception of prefixes listed in the core or concentration. Work-based learning may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit.

		·		AAS	Diploma	Certificate
Minimum N	1ajor	Hours Required		49 SHC	30 SHC	12 SHC
A. Technica	l Core	:		36-39 SHC	12 SHC	
•		ered under this AAS degree requires a minimur	m of 12 SHC extracted from			
the req	uired s	ubject area or core of the AAS degree.				
Required C	ours	es:				
ACC	120	Prin of Financial Acct	4 SHC			
ACC	121	Prin of Managerial Acct	4 SHC			
HMT	110	Intro to Healthcare Mgt	3 SHC			
Computer A	pplica	ations				
Select one:						
CIS	110	Introduction to Computers	3 SHC			
CIS	111	Basic PC Literacy	2 SHC			
OST	137	Office Applications I	3 SHC			
Insurance						
Select one:						
HMT	210	Medical Insurance	3 SHC			
OST	148	Med Ins & Billing	3 SHC			
Legal/Medi	cal Et	hics				
Select one:						
		Legal Asp of Healthcare Admin	3 SHC			
		Medical Law and Ethics	2 SHC			
OST	149	Medical Legal Issues	3 SHC			
Medical Ter	mino	logy				
Select one s	et:					
		Medical Terminology I	3 SHC			
MED	122	Medical Terminology II	3 SHC			
or						
OST		Med Office Terms I	3 SHC			
OST	142	Med Office Terms II	3 SHC			

Requ	ired S	ubjed	t Areas (Select one subject area):		
Gene	ral Hea	lthca	re Management Technology		
			ected from the following prefix: BUS	, HMT and/or OST	
	.b F	·			
	.ncare i t one:	ntre	preneurship		
30,00		230	Small Business Management	3 SHC	
			REAL Small Business	4 SHC	
Selec	t three:				
	BUS	139	Entrepreneurship I	3 SHC	
			Entrepreneurship II	3 SHC	
			Intro to Entrepreneurship	3 SHC	
			Innovation and Creativity	3 SHC	
			Mgt of Healthcare Org	3 SHC	
	MKT	231	Healthcare Marketing	3 SHC	
Long	Term C				
			Gerontology	3 SHC	
			Long-Term Care Admin	3 SHC	
			Mgt of Healthcare Org	3 SHC	
	OST	250	Long-Term Care Coding	3 SHC	
В.	CONC	ENTR	ATION (Not applicable)		
c.	_		JOR HOURS		
	To be s	electea	from the following prefixes:		
	ACC, B	AF, BI	O, BUS, CIS, CRT, CSV, CTI, CTS, DBA, DEN	I, ECO, ETR, GRO, HBI,	
HEA, HIT, HMT, ISC, MED, MKT, NET, OMT, OST, PBT, PMT, SPA, WBL and WEB					
	Up to t	wo se	mester hour credit may be selected from	ACA.	
	,		semester hour credits may be selected fro A ASL, CHI, FRE, GER, ITA, JPN, LAT, POR,	, ,	

Employability Competencies

Fundamental competencies that address soft skills vital to employability, personal, and professional success are listed below. Colleges are encouraged to integrate these competencies into the curriculum by embedding appropriate student learning outcomes into one or more courses or through alternative methods.

- **A. Interpersonal Skills and Teamwork** The ability to work effectively with others, especially to analyze situations, establish priorities, and apply resources for solving problems or accomplishing tasks
- **B. Communication** The ability to effectively exchange ideas and information with others through oral, written, or visual means
- **C. Integrity and Professionalism** Workplace behaviors that relate to ethical standards, honesty, fairness, respect, responsibility, self-control, criticism and demeanor
- **D. Problem-solving** The ability to identify problems and potential causes while developing and implementing practical action plans for solutions
- **E. Initiative and Dependability** Workplace behaviors that relate to seeking out new responsibilities, establishing and meeting goals, completing tasks, following directions, complying with rules, and consistent reliability
- F. Information processing The ability to acquire, evaluate, organize, manage, and interpret information
- **G. Entrepreneurship** The knowledge and skills necessary to create opportunities and develop as an employee or self-employed business owner
- **H. Adaptability and Lifelong Learning** The ability to learn and apply new knowledge and skills and adapt to changing technologies, methods, processes, work environments, organizational structures and management practices

**The Employability Competencies were determined as part of the Office Administration Alignment Project (OAAP). The North Carolina Career Clusters Guide, along with Industry/Employer Surveys, OAAP College Representative Surveys, and College Advisory Board input were used to determine these competencies.

The North Carolina Career Clusters Guide was developed by the North Carolina Department of Public Instruction and the North Carolina Community College system to link the academic and Career and Technical Education programs at the secondary and postsecondary levels to increase student achievement. Additional information about Career Clusters is located at:

http://www.nc-net.info/NC_career_clusters_guide.php or http://www.careertech.org.

CURRICULUM STANDARD

Effective Term Fall 2017 [2017*03]

Curriculum Program Title	Medical Office Administration	Program Code	A25310
Concentration	(not applicable)	Program Code	51.0705

Curriculum Description

The Medical Office Administration curriculum prepares individuals for employment as medical administrative personnel in the areas of medical office, medical billing and coding, dental office, patient services, and medical documents.

Course work includes medical terminology, computer applications, medical office management, medical coding, medical insurance and billing, medical legal and ethical issues, oral and written communication, and other topics depending on the subject area selected within this curriculum.

Graduates should qualify for employment opportunities in a variety of medical office positions in medical and dental offices, hospitals, insurance companies, laboratories, medical supply companies, and other healthcare related organizations. Upon graduation, students may be eligible to sit for industry recognized certification exams.

Curriculum Requirements*

[for associate degree, diploma, and certificate programs in accordance with 1D SBCC 400.97(3)]

- **General Education.** Degree programs must contain a minimum of 15 semester hours including at least one course from each of the following areas: humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics. Degree programs must contain a minimum of 6 semester hours of communications. Diploma programs must contain a minimum of 6 semester hours of general education; 3 semester hours must be in communications. General education is optional in certificate programs.
- **Major Hours**. AAS, diploma, and certificate programs must include courses which offer specific job knowledge and skills. Work-based learning may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit. (See second page for additional information.)
- II. Other Required Hours. A college may include courses to meet graduation or local employer requirements in a certificate, diploma, or associate in applied science program. These curriculum courses shall be selected from the Combined Course Library and must be approved by the System Office prior to implementation. Restricted, unique, or free elective courses may not be included as other required hours.

	AAS	Diploma	Certificate
Minimum General Education Hours	15	6	0
Minimum Major Hours	49	30	12
Other Required Hours	0-7	0-4	0-1
Total Semester Hours Credit (SHC)	64-76	36-48	12-18

^{*}Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic use of computers.

Minimu	ım Gen	eral Education Hours Required:		15 SHC	6 SHC	0 SHC
		below are recommended general	_			
curricul	um stai	ndard. Colleges may choose to inclu	de additional or alternative			
general	' educat	ion courses to meet local curriculum	needs.			
Commur	nication	:		6 SHC	3-6 SHC	Optional
CC	OM 110	Introduction to Communication	3 SHC			
CC	OM 120) Intro Interpersonal Com	3 SHC			
CC	OM 231	L Public Speaking U	3 SHC			
E١	NG 111	Writing and Inquiry U	3 SHC			
E١	NG 112	2 Writing/Research in the Disc U	3 SHC			
E١	NG 114	Prof Research & Reporting	3 SHC			
EN	NG 116	5 Technical Report Writing	3 SHC			
Humanit	ties/Fine	e Arts:				
		Art Appreciation U	3 SHC	3 SHC	0-3 SHC	Optional
HU	UM 110	Technology and Society	3 SHC			
		Critical Thinking	3 SHC			
) Leadership Development	3 SHC			
		Music Appreciation U	3 SHC			
PH	HI 230	Introduction to Logic	3 SHC			
PH	HI 240	Introduction to Ethics U	3 SHC			
Social /B	Behavio	ral Sciences:				
		Survey of Economics	3 SHC	3 SHC	0-3 SHC	Optional
EC		Prin of Microeconomics U	3 SHC			
EC	CO 252	2 Prin of Macroeconomics U	3 SHC			
PC	OL 120) American Government U	3 SHC			
PS	SY 118	3 Interpersonal Psychology	3 SHC			
PS		General Psychology U	3 SHC			
SC		Introduction to Sociology U	3 SHC			
Natural S	Sciences	s/Mathematics:				
		Math Measurement and Literacy	3 SHC	3-4 SHC	0-3 SHC	Optional
		Algebra/Trigonometry I	3 SHC			
		3 Quantitative Literacy U	3 SHC			
		2 Statistical Methods I U	4 SHC			
М	IAT 171	Precalculus Algebra U	4 SHC			
		ersal General Education Transfer Componen				
		ticulation Agreement. UGETC courses are g				
		sity of North Carolina senior institutions as e	equivalent credit within defined			
distribution	on limits.					

Major Hours

[ref. 1D SBCCC 400.97(3)]

- **A. Core.** The subject/course core is comprised of subject areas and/or specific courses which are required for each curriculum program. A diploma program offered under an approved AAS program standard or a certificate which is the highest credential level awarded under an approved AAS program standard must include a minimum of 12 semester hours credit derived from the subject/course core of the AAS program.
- **B. Concentration** (*if applicable*). A concentration of study must include a minimum of 12 semester hours credit from required subjects and/or courses. The majority of the course credit hours are unique to the concentration. The required subjects and/or courses that make up the concentration of study are in addition to the required subject/course core.
- **C. Other Major Hours.** Other major hours must be selected from prefixes listed on the curriculum standard. A maximum of 9 semester hours of credit may be selected from any prefix listed, with the exception of prefixes listed in the core or concentration. Work-based learning may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit.

		Medical Offic	ce Administration A	A25310		
				AAS	Diploma	Certificate
Minimum I	Major	Hours Required		49 SHC	30 SHC	12 SHC
A. Technica				33-36 SHC	12 SHC	
		ered under this AAS degree requires a minimum ubject area or core of the AAS degree.	of 12 SHC extracted from			
Required Co	urses:					
OST	148	Med Ins & Billing	3 SHC			
OST	164	Office Editing	3 SHC			
Computer A	pplicati	ions				
Select one:	440		2 (116			
CIS		Introduction to Computers	3 SHC			
CIS		Basic PC Literacy	2 SHC			
OST	137	Office Applications I	3 SHC			
Formatting/ Select one:	Word F	Processing				
OST	134	Text Entry and Formatting	3 SHC			
OST	136	Word Processing	3 SHC			
Legal/Medic	al Ethic	cs				
Select one:						
		Legal Asp of Healthcare Admin	3 SHC			
		Medical Law and Ethics	2 SHC			
OST	149	Medical Legal Issues	3 SHC			
Medical Offi	ce Mar	nagement				
Select one:						
		Admin Office Procedures I	2 SHC			
OST	181	Office Procedures	3 SHC			
		Medical Ofc Procedures	3 SHC			
OST		Medical Office Admin Capstone	3 SHC			
OST	289	Office Admin Capstone	3 SHC			
Medical Ter	•	ву				
		Medical Terminology I	3 SHC			
		Medical Terminology II	3 SHC			
or			3 33			
OST		Med Office Terms I	3 SHC			
OST		Med Office Terms II	3 SHC			

Required S	Subje	t Areas (Select one subject area.)	:	_
General Me	dical	Office Administration		
		ected from the following prefixes: OS	ST and/or MED	
		, , ,	•	
Dental Offic		5	2 511 6	
		Dental Office Terminology	3 SHC	
		Dental Billing and Coding	3 SHC	
OST		Dental Office Management	3 SHC	
OST	246	Dental Office Simulation	3 SHC	
Healthcare	Admiı	nistration		
		Human Resource Mgmt	3 SHC	
		Intro to Healthcare Mgmt	3 SHC	
		Long Term Care Admin	3 SHC	
HMT	212	Mgmt of Healthcare Org	3 SHC	
Medical Au	ditor			
OST		Procedure Coding	3 SHC	
OST		Diagnostic Coding	3 SHC	
OST		Medical Auditing	3 SHC	
Select one:				
OST		Healthcare Comp & Reg	3 SHC	
OST	266	Adv Medical Auditing	3 SHC	
Medical Bill	ing an	d Coding		
		Procedure Coding	3 SHC	
OST		Diagnostic Coding	3 SHC	
Select two:	0		3 3.10	
OST	250	Long-Term Care Coding	3 SHC	
OST		Med Coding Certification Prep	3 SHC	
OST		Adv Coding Methodologies	3 SHC	
OST		Medical Auditing	3 SHC	
Medical Do	cumei	nt Specialist		
Select four:	Cuille	it opecialist		
OST	135	Adv Text Entry & Format	3 SHC	
OST		Adv Office Editing	3 SHC	
OST		Med Ofc Transcription I	3 SHC	
OST		Med Ofc Transcription II	3 SHC	
OST		Med Document Processing	3 SHC	
OST		Electronic Health Records	3 SHC	
		Representative		
Select three				
BUS		People Skills	3 SHC	
BUS		Business Communication	3 SHC	
BUS		Professional Development	3 SHC	
MKT		Customer Service	3 SHC	
OST		Adv Office Editing	3 SHC	
OST		Healthcare Customer Relations	3 SHC	
OST	286	Professional Development	3 SHC	
Salact once				
Select one: OST	122	Office Computations	3 SHC	
BUS		Business Math	3 SHC	
BUS		Personal Finance	3 SHC	
ВО3	123	reisonal rinance	3 3110	

В.	CONCENTRATION (Not applicable)		
C.	OTHER MAJOR HOURS To be selected from the following prefixes:		
	ACC, BAF, BIO, BUS, CIS, CRT, CSV, CTI, CTS, DBA, DEN, ECO, ETR, HBI, HEA, HIT, HMT, ISC, MED, MKT, NET, OMT, OST, PBT, PMT, SPA, WBL and WEB		
	Up to two semester hour credit may be selected from ACA.		
	Up to three semester hour credits may be selected from the following prefixes: ARA ASL, CHI, FRE, GER, ITA, JPN, LAT, POR, RUS and SPA.		

Employability Competencies

Fundamental competencies that address soft skills vital to employability, personal, and professional success are listed below. Colleges are encouraged to integrate these competencies into the curriculum by embedding appropriate student learning outcomes into one or more courses or through alternative methods.

- **A. Information processing** The ability to acquire, evaluate, organize, manage, and interpret information (Planning and Organizing)
- **B. Communication** The ability to effectively exchange ideas and information with others through oral, written, or visual means
- **C. Integrity and Professionalism** Workplace behaviors that relate to ethical standards, honesty, fairness, respect, responsibility, self-control, criticism and demeanor
- **D. Interpersonal Skills and Teamwork** The ability to work effectively with others, especially to analyze situations, establish priorities, and apply resources for solving problems or accomplishing tasks
- **E. Initiative and Dependability** Workplace behaviors that relate to seeking out new responsibilities, establishing and meeting goals, completing tasks, following directions, complying with rules, and consistent reliability
- **F. Problem-solving** The ability to identify problems and potential causes while developing and implementing practical action plans for solutions
- **G.** Adaptability and Lifelong Learning The ability to learn and apply new knowledge and skills and adapt to changing technologies, methods, processes, work environments, organizational structures and management practices
- **H. Entrepreneurship** The knowledge and skills necessary to create opportunities and develop as an employee or self-employed business owner

**The Employability Competencies were determined as part of the Office Administration Alignment Project (OAAP). The North Carolina Career Clusters Guide, along with Industry/Employer Surveys, OAAP College Representative Surveys, and College Advisory Board input were used to determine these competencies.

The North Carolina Career Clusters Guide was developed by the North Carolina Department of Public Instruction and the North Carolina Community College system to link the academic and Career and Technical Education programs at the secondary and postsecondary levels to increase student achievement. Additional information about Career Clusters is located at:

http://www.nc-net.info/NC career clusters guide.php or http://www.careertech.org

CURRICULUM STANDARD

Effective Term Fall 2017 [2017*03]

Curriculum Program Title	Office Administration	Program Code	A25370
Concentration	(not applicable)	CIP	22.0204

Curriculum Description

The Office Administration curriculum prepares individuals for employment as administrative office personnel who use skills in the areas of office management, office finance, legal office, virtual office, customer service, and office software.

Course work includes computer applications, oral and written communication, analysis and coordination of office tasks and procedures, records management, and other topics depending on the subject area selected within this curriculum.

Graduates should qualify for employment opportunities in a variety of office positions in business, government, and industry. Upon graduation, students may be eligible to sit for industry recognized certification exams.

Curriculum Requirements*

[for associate degree, diploma, and certificate programs in accordance with 1D SBCC 400.97(3)]

- **General Education.** Degree programs must contain a minimum of 15 semester hours including at least one course from each of the following areas: humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics. Degree programs must contain a minimum of 6 semester hours of communications. Diploma programs must contain a minimum of 6 semester hours of general education; 3 semester hours must be in communications. General education is optional in certificate programs.
- **Major Hours**. AAS, diploma, and certificate programs must include courses which offer specific job knowledge and skills. Work-based learning may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit. (See second page for additional information.)
- **III. Other Required Hours.** A college may include courses to meet graduation or local employer requirements in a certificate, diploma, or associate in applied science program. These curriculum courses shall be selected from the *Combined Course Library* and must be approved by the System Office prior to implementation. Restricted, unique, or free elective courses may not be included as other required hours.

	AAS	Diploma	Certificate
Minimum General Education Hours	15	6	0
Minimum Major Hours	49	30	12
Other Required Hours	0-7	0-4	0-1
Total Semester Hours Credit (SHC)	64-76	36-48	12-18

^{*}Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic use of computers.

Minimum	Gene	ral Education Hours Required:		15 SHC	6 SHC	0 SHC
		pelow are recommended general	_			
		dard. Colleges may choose to inclu				
general ed	lucatio	on courses to meet local curriculum	needs.			
Communic	ation:			6 SHC	3-6 SHC	Optional
COM	110	Introduction to Communication	3 SHC			
COM	120	Intro Interpersonal Com	3 SHC			
COM	231	Public Speaking U	3 SHC			
ENG	111	Writing and Inquiry U	3 SHC			
ENG	112	Writing/Research in the Disc U	3 SHC			
ENG	114	Prof Research & Reporting	3 SHC			
ENG	116	Technical Report Writing	3 SHC			
lumanities	/Fine	Arts:				
ART		Art Appreciation U	3 SHC	3 SHC	0-3 SHC	Optional
HUM		Technology and Society	3 SHC			
		Critical Thinking	3 SHC			
		Leadership Development	3 SHC			
		Music Appreciation U	3 SHC			
PHI		Introduction to Logic	3 SHC			
PHI		Introduction to Ethics U	3 SHC			
Social /Beh	aviora	Il Sciences:				
ECO		Survey of Economics	3 SHC	3 SHC	0-3 SHC	Optional
ECO		Prin of Microeconomics U	3 SHC			
ECO	252	Prin of Macroeconomics U	3 SHC			
POL	120	American Government U	3 SHC			
PSY	118	Interpersonal Psychology	3 SHC			
PSY		General Psychology U	3 SHC			
SOC		Introduction to Sociology U	3 SHC			
Natural Sci	ences/	Mathematics:				
		Math Measurement and Literacy	3 SHC	3-4 SHC	0-3 SHC	Optional
		Algebra/Trigonometry I	3 SHC			
MAT	143	Quantitative Literacy U	3 SHC			
		Statistical Methods I U	4 SHC			
MAT	171	Precalculus Algebra U	4 SHC			
		rsal General Education Transfer Componen	•			
		iculation Agreement. UGETC courses are g				
		ity of North Carolina senior institutions as e	equivalent credit within defined			
distribution l	imits.					

Major Hours

[ref. 1D SBCCC 400.97(3)]

- **A. Core.** The subject/course core is comprised of subject areas and/or specific courses which are required for each curriculum program. A diploma program offered under an approved AAS program standard or a certificate which is the highest credential level awarded under an approved AAS program standard must include a minimum of 12 semester hours credit derived from the subject/course core of the AAS program.
- **B. Concentration** (*if applicable*). A concentration of study must include a minimum of 12 semester hours credit from required subjects and/or courses. The majority of the course credit hours are unique to the concentration. The required subjects and/or courses that make up the concentration of study are in addition to the required subject/course core.
- **C. Other Major Hours.** Other major hours must be selected from prefixes listed on the curriculum standard. A maximum of 9 semester hours of credit may be selected from any prefix listed, with the exception of prefixes listed in the core or concentration. Work-based learning may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit.

		Office A	Administration A253	370		
				AAS	Diploma	Certificate
Minimum N	Major	Hours Required		49 SHC	30 SHC	12 SHC
•	na offei	re: red under this AAS degree requires a minimum bject area or core of the AAS degree.	of 12 SHC extracted from	22-25 SHC	12 SHC	
Required (Cours	es:				
OST	164	Office Editing	3 SHC			
OST	184	Records Management	3 SHC			
Computer A		ations				
Select one:						
CIS		Introduction to Computers	3 SHC			
CIS		Basic PC Literacy	2 SHC			
OST	137	Office Applications I	3 SHC			
Formatting Select one:	/Word	d Processing				
OST	134	Text Entry & Formatting	3 SHC			
OST	136	Word Processing	3 SHC			
Office Man	agem	ent				
Select one:						
BUS		Principles of Supervision	3 SHC			
BUS		Principles of Management	3 SHC			
OST		Office Procedures	3 SHC			
OST	289	Office Administration Capstone	3 SHC			
Required S	Subje	ct Areas (Select one subject area)	:			
		Iministration ected from the following prefix: OST				
Office Final Select one:	nce					
ACC	150	Acct Software Appl	2 SHC			
OST	153	Office Finance Solutions	3 SHC			
Select one:						
BUS	121	Business Math	3 SHC			
BUS	125	Personal Finance	3 SHC			
OST	122	Office Computations	3 SHC			1

Select or	-				
		Financial Accounting	3 SHC		
		College Accounting	4 SHC		
AC	CC 120	Prin of Financial Accounting	4 SHC		
Legal Of	fice				
Select th					
		Business Law	3 SHC		
		Law Office Mgt/Technology	2 SHC		
		Legal Terminology	3 SHC		
		Legal Office Procedures	3 SHC		
		Legal Transcription I	3 SHC		
Virtual C					
Select th					
		Social Media Marketing	4 SHC		
0:		Social Media for Office Prof	3 SHC		
		Intro. To Virtual Office	3 SHC		
		Office Web Technologies	3 SHC		
0:	ST 272	Virtual Office Capstone	3 SHC		
Custome	er Servic	2			
Select tw		-			
		Business Communications	3 SHC		
		Office Ethics	3 SHC		
		Adv Office Editing	3 SHC		
		Professional Development	3 SHC		
Select or		Trolessional Development	3 3110		
		People Skills	3 SHC		
		Intro to Customer Service	3 SHC		
		Customer Service	3 SHC		
	_				
Office So Select th					
		Presentation Graphics	3 SHC		
		Spreadsheet	3 SHC		
		Database Concepts	3 SHC		
		Office Applications II	3 SHC		
		Office Publications Design	3 SHC		
		Adv Word Processing	3 SHC		
		Office Applications III	3 SHC		
B. CO	ONCENT	RATION (Not applicable)			
_					
		AJOR HOURS d from the following prefixes:			
HE		AF, BUS, CIS, CJC, CRT, CSC, CSV, CTI, (SC, ITN, LEX, MED, MKT, NET, NOS, OI nd WEB.			
Up	p to two s	emester hour credit may be selected f	from ACA.		
•		semester hour credits may be selecte A ASL, CHI, FRE, GER, ITA, JPN, LAT, P			
,,,,	,	. , , , , , ,	,		

Employability Competencies

Fundamental competencies that address soft skills vital to employability, personal, and professional success are listed below. Colleges are encouraged to integrate these competencies into the curriculum by embedding appropriate student learning outcomes into one or more courses or through alternative methods.

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- **B.** Communication The ability to effectively exchange ideas and information with others through oral, written, or visual means
- **C. Integrity and Professionalism –** Workplace behaviors that relate to ethical standards, honesty, fairness, respect, responsibility, self-control, criticism and demeanor
- **D. Interpersonal Skills and Teamwork** The ability to work effectively with others, especially to analyze situations, establish priorities, and apply resources for solving problems or accomplishing tasks
- **E. Initiative and Dependability** Workplace behaviors that relate to seeking out new responsibilities, establishing and meeting goals, completing tasks, following directions, complying with rules, and consistent reliability
- **F. Problem-solving** The ability to identify problems and potential causes while developing and implementing practical action plans for solutions
- **G.** Adaptability and Lifelong Learning The ability to learn and apply new knowledge and skills and adapt to changing technologies, methods, processes, work environments, organizational structures and management practices

**The Employability Competencies were determined as part of the Office Administration Alignment Project (OAAP). The North Carolina Career Clusters Guide, along with Industry/Employer Surveys, OAAP College Representative Surveys, and College Advisory Board input were used to determine these competencies.

The North Carolina Career Clusters Guide was developed by the North Carolina Department of Public Instruction and the North Carolina Community College system to link the academic and Career and Technical Education programs at the secondary and postsecondary levels to increase student achievement. Additional information about Career Clusters is located at:

http://www.nc-net.info/NC career clusters guide.php or http://www.careertech.org.

CURRICULUM STANDARD

Effective Term Spring 2017 [2017*01]

Curriculum Program Title	Taxidermy (Diploma)	Program Code	D30380
Concentration	(not applicable)	CIP Code	01.0508

Curriculum Description

The Taxidermy curriculum is designed to develop skills while teaching preservation of birds, fish, game heads, and mammals. Related subjects are included for a better understanding of customer relations and natural habitat construction. Students are also versed in state/federal regulations.

Course work includes basic proper measuring, skinning, fleshing, preserving, form selection, and preparation. Students will learn basic mounting procedures and finishing and painting of selected specimens. Students will learn how to construct natural habitats and the artistic display of mounted items.

Opportunities exist for graduates to set up their own business. Job opportunities are found in conjunction with sports shops, game preserves, museums, art galleries, interior decorators, plus guides and outfitters. Graduates will qualify for North Carolina and Federal Taxidermy licenses.

Curriculum Requirements*

[for associate degree, diploma, and certificate programs in accordance with 1D SBCCC 400.97 (3)]

- **General Education.** Degree programs must contain a minimum of 15 semester hours including at least one course from each of the following areas: humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics. Degree programs must contain a minimum of 6 semester hours of communications. Diploma programs must contain a minimum of 6 semester hours of general education; 3 semester hours must be in communications. General education is optional in certificate programs.
- **Major Hours**. AAS, diploma, and certificate programs must include courses which offer specific job knowledge and skills. Work-based learning may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit. (See second page for additional information.)
- III. Other Required Hours. A college may include courses to meet graduation or local employer requirements in a certificate, diploma, or associate in applied science program. These curriculum courses shall be selected from the Combined Course Library and must be approved by the System Office prior to implementation. Restricted, unique, or free elective courses may not be included as other required hours.

	AAS	Diploma	Certificate
Minimum General Education Hours	15	6	0
Minimum Major Hours	49	30	12
Other Required Hours	0-7	0-4	0-1
Total Semester Hours Credit (SHC)	64-76	36-48	12-18

^{*}Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic use of computers.

Major Hours

[ref. 1D SBCCC 400.97 (3)]

- **A. Core.** The subject/course core is comprised of subject areas and/or specific courses which are required for each curriculum program. A diploma program offered under an approved AAS program standard or a certificate which is the highest credential level awarded under an approved AAS program standard must include a minimum of 12 semester hours credit derived from the subject/course core of the AAS program.
- **B. Concentration** (*if applicable*). A concentration of study must include a minimum of 12 semester hours credit from required subjects and/or courses. The majority of the course credit hours are unique to the concentration. The required subjects and/or courses that make up the concentration of study are in addition to the required subject/course core.
- **C. Other Major Hours.** Other major hours must be selected from prefixes listed on the curriculum standard. A maximum of 9 semester hours of credit may be selected from any prefix listed, with the exception of prefixes listed in the core or concentration. Work-based learning may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit.

Taxidermy (Diploma) D30380						
				AAS	Diploma	Certificate
Minimum Major Hours Required				49 SHC	30 SHC	12 SHC
A.	CORE				40 SHC	
Req	uired Cours	ses:				
	TXY 110	Bird Preparation	5 SHC			
	TXY 112	Bird Quality Control&Mounting	5 SHC			
	TXY 114	Bird Finishing	5 SHC			
	TXY 121	Mammal Preparation	5 SHC			
	TXY 122	Mammal Qual. Control&Mounting	5 SHC			
	TXY 123	Mammal Finishing	5 SHC			
	TXY 131	Fish Preparation	5 SHC			
	TXY 133	Fish Finishing	5 SHC			
Req	uired Subje None	ct Areas:				
В.	CONCENTRATION (Not applicable)					
C.	OTHER MAJOR HOURS					
	To be selected from the following prefixes:					
	BUS, TXY, and WBL					
	Up to two semester hour credits may be selected from ACA.					
	Up to three semester hour credits may be selected from the following prefixes: ARA, ASL, CHI, FRE, GER, ITA, JPN, LAT, POR, RUS and SPA.					