

NORTH CAROLINA COMMUNITY COLLEGE SYSTEM

Mr. Peter Hans President

November 19, 2018

MEMORANDUM

TO: Presidents

Chief Academic Officers

FROM: Wesley E. Beddard, Associate Vice President

Programs

SUBJECT: State Board Action on November 16, 2018

Revised Curriculum Standards

On November 16, 2018, the State Board of Community Colleges approved revisions to the following curriculum standards:

Advanced Medical Coding (Certificate) (C45530) Emergency Medical Science (A45340)

To implement the revised programs, you must update your college's electronic program of study and receive approval from the System Office prior to implementation. An outline of the specific curriculum standard revisions is 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

The State Board of Community Colleges also approved the addition of the following curriculum title to the list of titles approved for the Special (abbreviated) Curriculum Program Application process provided that the college already have approval for either the Industrial Systems Technology (A50240) or Automation Engineering Technology (A40120) program:

Mechatronics Engineering Technology (A40350)

Additional information about the abbreviated program application process is provided in Section 3A of the *Curriculum Procedures Reference Manual* on the Academic Programs website at:

https://www.nccommunitycolleges.edu/academic-programs/curriculum-procedures-reference-manual-cprm

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

WB/JF/gr Attachments

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

Outline of Curriculum Standard Revision State Board of Community Colleges November 16, 2018

Advanced Medical Coding (Certificate) (C45530):

Revisions:

- Revised the curriculum description.
- Removed the following course from the core:

 AMC 208 Advanced Medical Coding Lab II
- Added the following anatomy & physiology pick list to the core:

BIO 165 Anatomy and Physiology I & BIO 166 Anatomy and Physiology II or

BIO 168 Anatomy and Physiology I & BIO 169 Anatomy and Physiology II or

BIO 163 Basic Anatomy & Physiology

Added the following pick list to the core:

BIO 271 Pathophysiology HIT 226 Principles of Disease

Note: The additional courses will result in an increase in hours requiring the curriculum to be reclassified from a certificate to a diploma. The new curriculum title/code is Advanced Medical Coding (D45530).

Emergency Medical Science (A45340)

Revisions:

- Revised the curriculum core by making the following changes:
 - Added the following course as an option to the Anatomy & Physiology subject area:
 BIO 161 Intro to Human Biology
 - Removed the Terminology subject area.
 - o Identified the required courses for a diploma as indicated with an "*".

Note: The proposed curriculum standard revision includes revised courses approved by the Curriculum Course Review Committee (CCRC) on October 9, 2018. The revision of core courses resulted in a change of core hours from 40 SHC to 48-50 SHC for the diploma program and a change of core hours from 49-52 to 48-50 for the associate degree program.

CC18-059 Email

CURRICULUM STANDARD

Effective Term Fall 2019 [2019*03]

Curriculum Program Title	Advanced Medical Coding (Diploma)	Program Code	D45530
Concentration	(not applicable)	CIP	51.0707

Curriculum Description

The Advanced Medical Coding curriculum provides the didactic and clinical experience necessary to become competent credentialed coders.

Coursework includes reimbursement, advanced International Classification of Diseases-10th Revision-Clinical Modification/Procedure Coding System (ICD-10-CM/PCS), Current Procedural Terminology (CPT), and Healthcare Common Procedure Coding System (HCPCS).

Graduates may be eligible to take either of the Certified Coding Specialist exams: the Certified Coding Specialist and/or the Certified Coding Specialist-Physician Based (CCS/CCS-P).

Individuals entering this curriculum must hold a minimum of an associate's degree in a healthcare field or health informatics from a regionally accredited college or university.

Curriculum Requirements*

[for associate degree, diploma, and certificate programs in accordance with 1D SBCCC 400.10]

- **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.
- **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. (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	24
Other Required Hours	0-7	0-4	0
Total Semester Hours Credit in Program	64-76	36-48	24

^{*}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

- **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 of 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.

Advanced Medical Coding (Diploma) (D45530)

					AAS	Diploma	Certificate
Min	imum Ma	ajor Ho	urs Required		49 SHC	30 SHC	
١.	CORE						
Req	uired Cou	urses:					
	AMC	200	Health Information for Coders	2 SHC			
	AMC	201	Legal and Compliance	2 SHC			
	AMC	202	Coding for Reimbursement	2 SHC			
	AMC	203	Intermediate ICD Diagnoses	3 SHC			
	AMC	204	Intermediate ICD Procedures	3 SHC			
	AMC	205	Imtermediate CPT Coding	3 SHC			
	AMC	206	Clinical Documentation	3 SHC			
	AMC	207	Advanced Medical Coding Lab I	2 SHC			
	AMC	209	Professional Practice Exp.	2 SHC			
	BIO	271	Pathophysiology	3 SHC or			
	HIT	226	Principles of Disease	3 SHC			
NA.	TOMY & P	HYSIOLO	DGY Select one sequence:				
	BIO	165	Anatomy & Physiology I	4 SHC &			
	BIO	166	Anatomy & Physiology II	4 SHC or			
	BIO	168	Anatomy & Physiology I	4 SHC &			
	BIO	169	Anatomy & Physiology II	4 SHC or			
	BIO	163	Basic Anatomy and Physiology	5 SHC			
3.	CONCE	NTRATI	ON (not applicable)				
<u>.</u>	OTHER	MAJOF	R HOURS (not applicable)				
o be	selected fi	rom the f	ollowing prefixes: AMC, BIO, HIT, MED, a	and OST			
Ip to	two seme	ster hour	credits may be selected from ACA.				
			r credits may be selected from the follov PN, LAT, POR, RUS and SPA.	ving prefixes: ARA,			

^{**}This program is approved by the State Board of Community Colleges to exceed maximum standard hours for a certificate program. [ref. 1D SBCCC 400.95(d)]

CURRICULUM STANDARD

Effective Term Spring 2019 [2019*01]

Curriculum Program Title	Emergency Medical Science	Program Code	A45340
Concentration	(not applicable)	CIP	51.0904

Curriculum Description

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.

Curriculum Requirements*

[for associate degree, diploma, and certificate programs in accordance with 1D SBCCC 400.10]

- **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	48	12
Other Required Hours	0-7	0-4	0-1
Total Semester Hours Credit (SHC)	64-76	54-60	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

- **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.

		Emergency	Medical S	cience A4	15340		
		<u> </u>			AAS	Diploma	Certificate
Minimun	n Major H	lours Required			49 SHC	30 SHC	12 SHC
CORE (Cou	ırses requi	red for the diploma are designated with	*)		48-50 SHC	48-50 SHC	
Required (Course:						
* EMS	110	EMT	9 SHC				
Required S	Subject Ar	eas:					
•	-	ogy. Select one:					
* BIO	161	Intro to Human Biology	3 SHC	or			
* BIO	163	Basic Anatomy & Physiology	5 SHC				
BIO	166	Anatomy and Physiology II	4 SHC				
BIO	169	Anatomy and Physiology II	4 SHC				
Required S	Subject Ar	ea: Advanced EMT/Paramedic					
		following sets)					
Advanced	EMT						
EMS	120	Advanced EMT	6 SHC				
EMS	121	AEMT Clinical Practicum	2 SHC				
Paramedio	С						
* EMS	122	EMS Clinical Practicum I	1 SHC				
* EMS	130	Pharmacology	4 SHC				
* EMS	131	Advanced Airway Management	2 SHC				
* EMS	160	Cardiology I	3 SHC				
* EMS	220	Cardiology II	3 SHC				
* EMS	221	EMS Clinical Practicum II	2 SHC				
* EMS	231	EMS Clinical Practicum III	3 SHC				
* EMS	240	Patients with Special Challenges	2 SHC				
* EMS	241	EMS Clinical Practicum IV	4 SHC				
* EMS	250	Medical Emergencies	4 SHC				
* EMS	260	Trauma Emergencies	2 SHC				
* EMS	270	Life Span Emergencies	4 SHC				
* EMS	285	EMS Capstone	2 SHC				
B. CONCE	NTRATION	N (Not applicable)					
C. OTHER	R MAJOR	HOURS					
To be	selected fr	om the following prefixes: BIO, CIS, CSC,	EMS, EPT, H	SC, MED,			
ODL, C	OST, PED, d	and WBL.					
Up to	two semes	ster hour credits may be selected from AC	CA.				
Un to	three semi	ester hour credits may be selected from t	he following				
•		SL, CHI, FRE, GER, ITA, JPN, LAT, POR, RUS					
PICJIA		52, 511, 1112, 5211, 1111, 51 14, £11, 1 OII, 1103	J 4.14 JI / 1			l	l

^{**} This program is approved by the State Board of Community Colleges to exceed maximum standard hours for a diploma program [ref. 1D SBCCC 400.9 (c)].