

# NORTH CAROLINA COMMUNITY COLLEGE SYSTEM Dr. R. Scott Ralls, President

October 21, 2013

#### **MEMORANDUM**

TO: Presidents

Chief Academic Officers

FROM: Wesley E. Beddard, Associate Vice President

**Student Learning and Success** 

SUBJECT: State Board Action on October 18, 2013

On October 18, 2013, the State Board of Community Colleges approved a new standard, with six program majors, designed to prepare students for careers in Health Science:

## Health Science: Therapeutic and Diagnostic Services

Emergency Medical Science (D45910) Medical Assisting (D45920) Nursing Assistant (D45930) Pharmacy Technology (D45940)

Phlebotomy (D45950)

Therapeutic Massage (D45960)

Students may utilize this standard to select a career pathway that will prepare them for an entry level position in health care. Courses will also provide foundational knowledge needed in the pursuit of advanced health science degrees or programs.

In order to utilize one of the program majors, the college must have approval to offer the primary curriculum program and file an electronic program of study. (Example: A college must have approval for Medical Assisting (A45400) in order to file a program of study for Medical Assisting (D45920)). The System Office will send additional information concerning the attached, new curriculum standard in the immediate future.

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

#### Fire Protection Technology (A55240)\*

The revised Fire Protection Technology curriculum standard is a result of the Fire Protection Technology Career and Technical Education (CTE) Grant Project. Requests for Fire Protection curriculum course revisions will be presented to the Curriculum Review Committee in November. Appreciation is extended to Blue Ridge Community College for serving as the lead college on this project.

\*Please be aware that you must implement the revised standard 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.

The State Board of Community Colleges also approved the following Tier funding classifications:

**Tier I** funding classification for the following curriculum prefixes:

ATT	Alternative Transportation Tech.	LDD	Light Duty Diesel
<b>BAT</b>	Building Automation Tech.	MRN	Marine
CEG	Civil Engineering and Geomatic	TRN	Transportation

#### **Tier II** funding classification for the following curriculum prefixes:

HCI	Healthcare Interpreting	DMS	Developmental Math Shell
<b>IEC</b>	Import Export Compliance	TEX	Textiles
DRE	Developmental Reading/English		

An outline of the specific curriculum standard revisions, the revised standard, and the new curriculum standard are attached for your convenience. You may view all curriculum standards and curriculum Tier funding classifications (Section 21 of the *Curriculum Procedures Reference Manual*) by visiting the Academic Programs website at:

http://www.nccommunitycolleges.edu/Programs/index.html

If you have any questions concerning the State Board action items, please contact Ms. Jennifer Frazelle at (919) 807-7120 or frazellej@nccommunitycolleges.edu.

WEB/JF/gr Attachments

c: Dr. Sharon Morrissey

Ms. Jennifer Haygood

Ms. Elizabeth Self

Ms. Cynthia Liston

Ms. Jennifer Frazelle CC13-021
Program Coordinators Email

# **Curriculum Standard for Health Science: Therapeutic and Diagnostic Services**

Career Cluster: Health Science \*\*

**Cluster Description:** Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

Pathway: Therapeutic and Diagnostic Services | Effective Term | Fall 2014

Program Majors Under Pathway						
Program Major / Classification of Instruction	Credential Level(s)	Program				
Code		Offered	Major Code			
Emergency Medical Science	CIP Code 51.0904	Diploma/Certificate	D45910			
Medical Assisting	CIP Code 51.0801	Diploma/Certificate	D45920			
Nursing Assistant	CIP Code 51.3902	Diploma/Certificate	D45930			
Pharmacy Technology	CIP Code 51.0805	Diploma/Certificate	D45940			
Phlebotomy	CIP Code 51.1009	Diploma/Certificate	D45950			
Therapeutic Massage	CIP Code 51.3501	Diploma/Certificate	D45960			

# **Pathway Description:**

This curriculum is designed to prepare students for careers in the Health Sciences.

Students will complete general education courses that provide a foundation for success in nursing and allied health curricula. Students may select a career pathway that will prepare them for an entry level position in health care. Courses may also provide foundational knowledge needed in the pursuit of advanced health science degrees or programs.

Graduates should qualify for an entry-level job associated with the program major such as Emergency Medical Technician (EMT) or Advanced Emergency Medical Technician (AEMT), Medical Assistant, Nursing Assistant, Pharmacy Technician, Phlebotomist, or Massage Therapist dependent upon the selected program major.

Program Major Description: Choose one of the following 4<sup>th</sup> paragraphs to use in conjunction with the first three paragraphs of the pathway description above for documentation used to identify each **Program Major**:

In order to utilize one of the program majors below, the college must have approval to offer the primary curriculum program and file an electronic program of study (POS). (Example: A college must have approval for Medical Assisting (A45400) in order to file a POS for Medical Assisting (D45920)).

**Emergency Medical Science**: A program that prepares graduates to enter the workforce as Emergency Medical Technicians or Advanced Emergency Medical Technicians. The course of study provides the student an opportunity to acquire basic life support knowledge and skills by utilizing classroom instruction, practical laboratory sessions, and hospital/field internships. Students progressing through the program may be eligible to apply for both state and national certification exams. Employment opportunities include ambulance services, fire and rescue agencies, air medical services, specialty areas of hospitals, industry, educational institutions, and government agencies.

**Medical Assisting:** A program that prepares multi-skilled health care professionals qualified to perform administrative, clinical, and laboratory procedures. Course work includes instruction in scheduling appointments, medical records, introductory insurance procedures, computer operations; assisting with examinations/treatments, performing routine laboratory procedures, electrocardiography, and supervised medication administration. Graduates of CAAHEP-accredited medical assisting programs may be eligible to sit for the American Association of Medical Assistants' Certification Examination to become Certified Medical Assistants. Employment opportunities include physicians' offices, health maintenance organizations, health departments, and hospitals.

<sup>\*</sup>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.

**Nursing Assistant:** A program that prepares individuals to work under the supervision of licensed health care professionals in performing nursing care and services for persons of all ages. Course work emphasizes growth and development throughout the life span, personal care, vital signs, communication, nutrition, medical asepsis, therapeutic activities, accident and fire safety, household environment and equipment management; family resources and services; and employment skills. Graduates of this program may be eligible to be listed on the Division of Health Service Regulation (DHSR) Nurse Aide registry as a Nursing Assistant I and the N.C. Board of Nursing Nurse Aide II registry as a Nursing Assistant II. They may be employed in home health agencies, hospitals, clinics, nursing homes, extended care facilities, and doctors' offices.

**Pharmacy Technology:** A program that prepares individuals to assist the pharmacist in duties that a technician can legally perform and to function within the boundaries prescribed by the pharmacist and the employment agency. Course work includes preparing prescription medications, mixing intravenous solutions and other specialized medications, maintaining inventories, and packaging medications in unit-dose or med-card form. Employment opportunities include retail, hospitals, nursing homes, research laboratories, wholesale drug companies, and pharmaceutical manufacturing facilities. Graduates from the program may be eligible to take the National Certification Examination to become a certified pharmacy technician.

**Phlebotomy:** A program that prepares individuals to obtain blood and other specimens for the purpose of laboratory analysis. Course work includes proper specimen collection and handling, communication skills, and maintaining patient data. Graduates may qualify for employment in hospitals, clinics, physicians' offices, and other health care settings and may be eligible for national certification as phlebotomy technicians.

Therapeutic Massage: A program that prepares graduates to work in direct client care settings to provide manipulation, methodical pressure, friction and kneading of the body for maintaining wellness or treating alterations in wellness throughout the lifespan. Courses work includes content in normal human anatomy and physiology, therapeutic massage, and ethical/legal issues. Employment opportunities include hospitals/rehabilitation centers, health departments, home health, medical offices, nursing homes, spas/health/sports clubs, and private practice. Graduates may be eligible to take the Massage and Bodywork Licensing Exam or the National Certification for Therapeutic Massage and Bodywork.

#### I. General Education Academic Core

[Curriculum Requirements for associate degree, diploma, and certificate programs in accordance with 1 D 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.

Recommen	nded Cen				Health Science: Therapeutic and Diagnostic Services				
	iucu Ocii	Recommended General Education Academic Core		AAS	Diploma	Certificate			
	Minimum General Education Hours Required:			6 SHC					
standard. C	Colleges m	are <b>recommended</b> general education courses ay choose to include additional or alternative curriculum needs.							
Communica									
ENG		Expository Writing	3 SHC		3-6+ SHC				
ENG		Argument-Based Research	3 SHC		3-0+ SHC				
COM		Intro Interpersonal Com	3 SHC						
COM	231	Public Speaking	3 SHC						
Humanities	/Fine Arts	<b>::</b>							
HUM		Critical Thinking	3 SHC						
PHI	230	Introduction to Logic	3 SHC		0-3+ SHC				
PHI	240	Introduction to Ethics	3 SHC		0-51 5110				
Social /Beha	avioral Sci	iences:							
*PSY	150	General Psychology	3 SHC						
PSY	241	Developmental Psy	3 SHC		0-3+ SHC				
Natural Sci	ences/Mat	hematics:							
BIO	165	Anatomy & Physiology I	4 SHC						
BIO	166	Anatomy & Physiology II	4 SHC						
BIO	168	Anatomy & Physiology I	4 SHC						
BIO	169	Anatomy & Physiology II	4 SHC						
BIO	163	Basic Anatomy & Physiology	5 SHC		0-3+ SHC				
BIO	175	General Microbiology	3 SHC						
BIO	275	Microbiology	4 SHC						
CHM	131	Introduction to Chemistry	3 SHC						
	131A	Introduction to Chemistry Lab	1 SHC						
MAT		Mathematical Measurement & Literacy	3 SHC						
MAT		Quantitative Literacy (proposed new course)	3 SHC						
PHY	110	Conceptual Physics	3 SHC						
PHY	110A	Conceptual Physics Lab	1 SHC						
	<u> </u>	bove pending Fall CRC approval  eneral Psychology is a required core course for the	Phlebotomy						

- **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 hours 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 each prefix listed, with the exception of prefixes listed in the core.

Health Science: Therapeutic and Diagn	ostic Services	AAS	Diploma	Certificate
Minimum Major Hours Required:			30 SHC	
A. Technical Core: (3-8 SHC)				
MED 120 Survey of Medical Terminology	2 SHC or			
MED 121 Medical Terminology I MED 122 Medical Terminology II	3 SHC & 3 SHC			
MED 180 CPR Certification HSC 120 CPR HEA 112 First Aid & CPR HSC 110 Orientation to Health Careers HSC 140 Transcultural Healthcare	1 SHC or 1 SHC or 2 SHC or 1 SHC or 2 SHC			
B. Program Major(s): (12-22 SHC) (Select one Program of the Progra	ogram Major)			
Emergency Medical Science (16 SHC)  EMS 110 EMT-Basic  EMS 120 Intermediate Interventions Advanced EMT  EMS 121 EMS AEMT Clinical Practicum	7 8 SHC 3 6 SHC 2 SHC			
Highlighted changes above pending Fall CRC approval				
Medical Assisting (22 SHC)  MED 110 Orientation to Medical Assisting  MED 118 Medical Law and Ethics  MED 130 Administrative Office Procedures I  MED 131 Administrative Office Procedures II  MED 140 Exam Room Procedures I  MED 150 Lab Procedures I  MED 260 Medical Clinical Practicum  Nursing Assistant (14 SHC)  NAS 101 Nursing Assistant I	1 SHC 2 SHC 2 SHC 2 SHC 5 SHC 5 SHC 5 SHC			
NAS 102 Nursing Assistant II NAS 103 Home Health Care	6 SHC 2 SHC			
Pharmacy Technology(19 SHC) PHM 110 Introduction to Pharmacy PHM 111 Pharmacy Practice I PHM 115 Pharmacy Calculations PHM 118 Sterile Procedures PHM 120 Pharmacology I PHM 140 Trends in Pharmacy	3 SHC 4 SHC 3 SHC 4 SHC 3 SHC 2 SHC			
Phlebotomy (12 SHC)				
PBT 100 Phlebotomy Technology PBT 101 Phlebotomy Practicum PSY 150 General Psychology	6 SHC 3 SHC 3 SHC			
Therapeutic Massage (22 SHC) MTH 110 Fundamentals of Massage MTH 120 Ther Massage Applications MTH 125 Ethics of Massage	10 SHC 10 SHC 2 SHC			

#### C. Other Major Hours.

#### To be selected from the following prefixes:

BIO, CHM, CIS, EMS, HEA, HSC, MAT, MED, MTH, NAS, NUT, PBT, PHM, PHY, PSY, SOC, and WBL.

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: <a href="http://www.nc-net.info/employability.php">http://www.nc-net.info/employability.php</a>

<sup>\*\*</sup>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: <a href="http://www.nc-net.info/NC">http://www.nc-net.info/NC</a> career clusters quide.php or <a href="http://www.careertech.org">http://www.careertech.org</a>.

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
<b>Total Semester Hours Credit (SHC)</b>	64-76	36-48	12-18

#### **Attachment**

# Outline of Curriculum Standard Revisions State Board of Community Colleges – October 18, 2013

#### Fire Protection Technology (A55240)

- Format the curriculum standard utilizing the Career Clusters model.
- Revise the curriculum (pathway) description.
- Add the following courses to the Technical Core:

FIP 152 Fire Protection Law FIP 228 Local Government Finance

• Remove the following course from the Technical Core:

FIP128 Detection and Investigation

• Add the following prefixes to the Other Major Hours section of the curriculum standard: BUS, BPR, COM, ELC, EPT, GIS, HSE, LOG, OST, PAD, PED, and SOC.

Please note that the addition and deletion of courses to the technical core will result in an increase of core hours from 15 SHC to 18 SHC.

## **Curriculum Standard for Fire Protection Technology**

Career Cluster: Law, Public Safety, Corrections & Security

**Cluster Description:** Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.

Pathway: Public Service Technologies Effective Term: Fall 2014 (2014\*03)

Program Major / Classificati	on of Instruction	Credential Level(s)	Program Major
Programs (CIP) Code		Offered	Code
Fire Protection Technology	CIP Code 43.0201	AAS/Diploma/Certificate	A55240

<u>Pathway Description:</u> 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.

Program Description: Choose one of the following 4<sup>th</sup> paragraphs to use in conjunction with the first three paragraphs of the pathway description above for documentation used to identify each **Program Major:** N/A

#### 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.

## **Fire Protection Technology**

Recommended General Education Academic Core	AAS	Diploma	Certificate
Minimum General Education Hours Required:	15 SHC	6 SHC	0 SHC
Courses listed below are recommended general education courses for this curriculum standard. Colleges may choose to include additional or alternative general education courses to meet local curriculum needs.			
Communication: General education courses within communication classification	6 SHC	3-6 SHC	Optional
Humanities/Fine Arts: General education courses within Humanities/Fine Arts classification	3 SHC	0-3 SHC	Optional
Social /Behavioral Sciences: General education courses within Social/Behavioral Sciences classification	3 SHC	0-3 SHC	Optional
Natural Sciences/Mathematics: General education course within Natural Sciences/Mathematics classification	3 SHC	0-3 SHC	Optional

- **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 each prefix listed, with the exception of prefixes listed in the core.

Fire Protection Technology		Diploma	Certificate
Minimum Major Hours Required:		30 SHC	12 SHC
A. Technical Core:  Courses required for the diploma are designated with *	18 SHC	18 SHC	
Required Courses:			
*FIP 120 Intro to Fire Protection 3 SHC  *FIP 124 Fire Prevention & Public Ed 3 SHC  *FIP 132 Building Construction 3 SHC  *FIP 152 Fire Protection Law 3 SHC  *FIP 220 Fire Fighting Strategies 3 SHC  *FIP 228 Local Govt Finance 3 SHC  Required Subject Areas. None			
B. Program Major(s): Not Applicable			
C. Other Major Hours: To be selected from the following prefixes:			
BPR, BUS, CHM, CIS, CJC, COE, COM, CSC, ECO, EHS, ELC, EMS, EPT, FIP, GIS, HSE, LOG, NET, OST, PAD, PED, PHY, POL, SOC, and WBL.			
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.

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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. 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 leader.

\*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
<b>Total Semester Hours Credit (SHC)</b>	64-76	36-48	12-18

<sup>\*\*</sup>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: <a href="http://www.nc-net.info/NC">http://www.nc-net.info/NC</a> career clusters quide.php or <a href="http://www.careertech.org">http://www.careertech.org</a>.