



NORTH CAROLINA COMMUNITY COLLEGE SYSTEM

Dr. James C. Williamson

President

January 23, 2017

MEMORANDUM

TO: Presidents
Chief Academic Officers

FROM: Wesley E. Beddard, Associate Vice President
Programs

SUBJECT: State Board Action on January 20, 2017
Revised Curriculum Standards

On January 20, 2017, the State Board of Community Colleges approved the requested revision to the following curriculum standards:

Criminal Justice Technology/Latent Evidence (A5518A)
Culinary Arts (A55150)
Nuclear Medicine Technology (A45460)

Please be aware that you must implement the revised curriculum 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 programs.

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>

If you have any questions concerning the 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

CC17-001
Email

**Outline of Curriculum Standard Revision
State Board of Community Colleges
January 20, 2017**

Criminal Justice Technology/Latent Evidence (A5518A)

Revisions:

- Revised the curriculum program title from *Criminal Justice Technology/Latent Evidence* to *Criminal Justice Technology/Forensic Science*.
- Revised the curriculum description

The revision to the program title resulted in a new program code (A5518C)

Culinary Arts (A55150)

Revisions:

- Added the following course as an *option* in the nutrition subject area:

BIO 155 Nutrition

Nuclear Medicine Technology (A45460)

Revisions:

- Revised the curriculum description

CURRICULUM STANDARD

Effective Term
Fall 2017
[2017*03]

Curriculum Program Title	Criminal Justice Technology	Program Code	A5518C
Concentration	Forensic Science	CIP Code	43.0106

Curriculum Description

Forensic Science is a concentration under the curriculum of Criminal Justice Technology, which focuses on the application of the physical, biomedical, and social sciences to the analysis and evaluation of physical evidence, human testimony and criminal suspects. Study will focus on local, state, and federal law enforcement, evidence processing and procedures.

Students will learn both theory and hands-on analysis of latent evidence. They will learn fingerprint classification, identification, and chemical development. Students will record, cast, and recognize footwear and tire-tracks; and process crime scenes. Issues and concepts of communications and the use of computers and computer assisted design programs in crime scene technology will be discussed.

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

Curriculum Requirements*

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

- I. **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	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.

Criminal Justice Technology/Forensic Science A5518C

	AAS	Diploma	Certificate
Minimum Major Hours Required	49 SHC	30 SHC	12 SHC
A. CORE Required Courses: CJC 111 Introduction to Criminal Justice 3 SHC CJC 112 Criminology 3 SHC CJC 113 Juvenile Justice 3 SHC CJC 131 Criminal Law 3 SHC CJC 212 Ethics and Community Relations 3 SHC CJC 221 Investigative Principles 4 SHC CJC 231 Constitutional Law 3 SHC Required Subject Area: None	22 SHC		
B. CONCENTRATION <i>Courses unique to a concentration are designed with **</i> Required Courses ** CJC 144 Crime Scene Processing 3 SHC ** CJC 146 Trace Evidence 3 SHC ** CJC 245 Friction Ridge Analysis 3 SHC ** CJC 246 Adv Friction Ridge Analysis 3 SHC	12 SHC		
C. OTHER MAJOR HOURS <i>To be selected from the following prefixes:</i> ASL, BIO, BUS, CCT, CET, CHM, CIS, CJC, COM, CSC, CTI, CTS, DBA, ECO, EDU, HEA, HIS, HSE, LEX, NET, OST, PED, POL, PSY, SOC, SPA, and WBL <i>Up to two semester hour credits may be selected from ACA.</i> <i>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.</i>			

CURRICULUM STANDARD

Effective Term
Fall 2017
[2017*03]

Curriculum Program Title	Culinary Arts	Program Code	A55150
Concentration	(not applicable)	CIP Code	12.0503

Curriculum Description

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

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

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

Curriculum Requirements*

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

- I. **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	12
Other Required Hours	0-7	0-4	0-1
Total Semester Hours Credit in Program	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.

Culinary Arts A55150

	AAS	Diploma	Certificate
Minimum Major Hours Required	49 SHC	30 SHC	12 SHC
A. CORE	30-32 SHC	NR	
Required Courses: CUL 110 Sanitation & Safety 2 SHC CUL 140 Culinary Skills I 5 SHC CUL 160 Baking I 3 SHC CUL 170 Garde Manger I 3 SHC CUL 240 Culinary Skills II 5 SHC HRM 245 Human Resource Mgmt-Hosp 3 SHC Required Subject Areas: Nutrition. Select one: BIO 155 Nutrition 3 SHC CUL 112 Nutrition for Foodservice 3 SHC NUT 110 Nutrition 3 SHC Customer Service. Select one: CUL 135 Food & Beverage Service 2 SHC HRM 124 Guest Service Management 3 SHC Purchasing/Cost Control. Select one: CUL 120 Purchasing 2 SHC HRM 220 Cost Control-Food & Bev 3 SHC HRM 260 Procurement for Hosp 3 SHC Work-Based Learning. Select one or two of the following: 2 SHC <i>Select two of the following:</i> WBL 111 Work-Based Learning I 1 SHC WBL 121 Work-Based Learning II 1 SHC WBL 131 Work-Based Learning III 1 SHC WBL 211 Work-Based Learning IV 1 SHC WBL 221 Work-Based Learning V 1 SHC WBL 231 Work-Based Learning VI 1 SHC OR <i>Select one of the following</i> WBL 112 Work-Based Learning I 2 SHC WBL 122 Work-Based Learning II 2 SHC WBL 132 Work-Based Learning III 2 SHC WBL 212 Work-Based Learning IV 2 SHC WBL 222 Work-Based Learning V 2 SHC WBL 232 Work-Based Learning VI 2 SHC			
B. CONCENTRATION (Not applicable)			
C. OTHER MAJOR HOURS <i>To be selected from the following prefixes:</i> ACC, AGR, ART, BPA, BUS, CIS, CSC, CUL, ENT, ETR, FRE, FST, HOR, HRM, ISC, MAT, NUT, OMT, RSM, SPA, SST, and WBL <i>Up to two semester hour credits may be selected from ACA.</i> <i>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.</i>			

CURRICULUM STANDARD

Effective Term
Fall 2017
[2017*03]

Curriculum Program Title	Nuclear Medicine Technology	Program Code	A45460
Concentration	(not applicable)	CIP Code	51.0905

Curriculum Description

The Nuclear Medicine Technology curriculum provides the clinical and didactic experience necessary to prepare students to qualify as entry-level Nuclear Medicine Technologists.

Students will acquire the knowledge and skills necessary to properly perform clinical procedures. These skills include patient care, use of radioactive materials, operation of imaging and counting instrumentation, and laboratory procedures.

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

Curriculum Requirements*

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

- I. **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	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.

Nuclear Medicine Technology A45460

	AAS	Diploma	Certificate																																
Minimum Major Hours Required	49 SHC	30 SHC	12 SHC																																
<p>A. CORE <i>A diploma offered under this AAS degree requires a minimum of 12 SHC extracted from the required subject/course core of the AAS degree.</i></p> <p>Required Courses:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">NMT</td> <td style="width: 10%;">110</td> <td style="width: 60%;">Introduction to Nuclear Medicine</td> <td style="width: 20%; text-align: right;">2 SHC</td> </tr> <tr> <td>NMT</td> <td>132</td> <td>Overview-Clinical Nuclear Medicine</td> <td style="text-align: right;">4 SHC</td> </tr> <tr> <td>NMT</td> <td>134</td> <td>Nuclear Pharmacy</td> <td style="text-align: right;">2 SHC</td> </tr> <tr> <td>NMT</td> <td>211</td> <td>NMT Clinical Practice I</td> <td style="text-align: right;">7 SHC</td> </tr> <tr> <td>NMT</td> <td>212</td> <td>Procedures for Nuclear Medicine I</td> <td style="text-align: right;">2 SHC</td> </tr> <tr> <td>NMT</td> <td>215</td> <td>Non-Imaging Instrumentation</td> <td style="text-align: right;">2 SHC</td> </tr> <tr> <td>NMT</td> <td>221</td> <td>NMT Clinical Practice II</td> <td style="text-align: right;">7 SHC</td> </tr> <tr> <td>NMT</td> <td>222</td> <td>Procedures for Nuclear Medicine II</td> <td style="text-align: right;">2 SHC</td> </tr> </table> <p>Required Subject Areas: None</p>	NMT	110	Introduction to Nuclear Medicine	2 SHC	NMT	132	Overview-Clinical Nuclear Medicine	4 SHC	NMT	134	Nuclear Pharmacy	2 SHC	NMT	211	NMT Clinical Practice I	7 SHC	NMT	212	Procedures for Nuclear Medicine I	2 SHC	NMT	215	Non-Imaging Instrumentation	2 SHC	NMT	221	NMT Clinical Practice II	7 SHC	NMT	222	Procedures for Nuclear Medicine II	2 SHC	28 SHC	12 SHC	
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<p>C. OTHER MAJOR HOURS <i>To be selected from the following prefixes:</i></p> <p>BIO, CIS, CSC, HSC, NMT, PET, PHY, and WBL</p> <p><i>Up to two semester hour credits may be selected from ACA.</i></p> <p><i>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.</i></p>																																			