NORTH CAROLINA COMMUNITY COLLEGE SYSTEM
Mr. George Fouts
Interim President

December 7, 2015

MEMORANDUM

TO: Presidents
      Chief Academic Officers

FROM: Wesley E. Beddard, Associate Vice President
      Programs

SUBJECT: State Board Action on December 4, 2015
      New and Revised Curriculum Standards

  On December 4, 2015, the State Board of Community Colleges approved the requested revision to the following curriculum standards:

> **Central Sterile Processing (Certificate) (C45180)**
> **Polysomnography (A45670)**
> **Electric Line Construction Technology (A35230)**
> **Global Logistics and Distribution Management Technology (A25620)**

  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 programs of study and receive approval from the System Office prior to implementation of the revised program.

  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 December State Board action items listed above, please contact Ms. Jennifer Frazelle at 919.807.7120 or frazellej@nccommunitycolleges.edu.

WB/JF/gr
Attachments
cc: Dr. Lisa M. Chapman
  Ms. Elizabeth Self
  Ms. Jennifer Frazelle
  Program Coordinators

             CC15-039
             Email

Outline of Curriculum Standard Revisions
State Board of Community Colleges – December 4, 2015

Central Sterile Processing (Certificate) (C45180)
Revision:

- *Revised the curriculum description.*

Polysomnography (A45670)
Revision:

- Created a new subject area which consists of the following courses:

  - *ELC 111   Intro to Electricity*
  - *PSG 113   PSG Instrumentation*

Electric Line Construction Technology (A35230)
Revision:

- Removed the following course from the "Required Courses" area:

  - *ELC 233 Energy Management*

- The revision results in a decrease of required core hours for the AAS degree from 29-31 SHC to 26-28 SHC.

Global Logistics and Distribution Management Technology (A25610)
Revisions:

- Changed the curriculum title to *Supply Chain Management*.

- The change in title results in a new program code (A25620).

- Revised the program description.

- Removed the following courses from the core:
  - *BUS 137 Principles of Management*
  - *MKT 120 Principles of Marketing*

- Removed the course pick list from the *Global Logistics Technology* subject area.

- Moved the following course pick lists from *Distribution Management* subject area into the core:
  - *Accounting*
  - *Economics*

- Added a *Trucking Operations Management* subject area option.

- The revisions result in a decrease of required core hours for the AAS degree from 33-37 SHC to 27-32 SHC.

CURRICULUM STANDARD

Curriculum Program Title	**Central Sterile Processing (Certificate)**	Program Code	**C45180**
Concentration	**(not applicable)**	CIP Code	*51.1012*

Curriculum Description

The Central Sterile Processing curriculum is designed to prepare individuals for the field of Sterile Processing and Central Service Supply.

Students will develop skills necessary to properly disinfect, prepare, process, store, and issue both sterile and nonsterile supplies, instrumentation, and equipment for patient care. Additionally, students will learn to operate sterilizing units and monitor effectiveness of the sterilization process.

Graduates will be eligible to take the Certification Board for Sterile Processing and Distribution, Inc. "Sterile Processing and Distribution (SPD) Technician Exam", earning the title of Central Sterile Processing and Distribution Technician (CSPDT). Employment opportunities include surgery centers, central sterile processing departments in hospitals, and traveling consultation services.

*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.

Central Sterile Processing (Certificate) C45180	AAS	Diploma	Certificate
Minimum Major Hours Required	**49 SHC**	**30 SHC**	**12 SHC**
A. **CORE**			**12 SHC**
Required Courses: STP 101 Intro Sterile Processing 8 SHC STP 102 STP Clinical Practice 3 SHC STP 103 Prof Success Prep 1 SHC			
B. **CONCENTRATION** *(Not applicable)*			
C. **OTHER MAJOR HOURS** *To be selected from the following prefixes:* BIO, CIS, STP, 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.*			

CURRICULUM STANDARD

Curriculum Program Title	**Polysomnography**	Program Code	**A45670**
Concentration	**(not applicable)**	CIP Code	*51.0917*

Curriculum Description

The Polysomnography curriculum prepares individuals, working in conjunction with a physician, to perform and interpret sleep studies and to provide comprehensive clinical evaluations that are required for the diagnosis of sleep related disorders.

Students should acquire the knowledge and skills necessary to perform sleep studies, including recording and interpreting events observed during sleep. Treatment of sleep related disorders and patient education focused on healthy sleep habits will also be discussed.

Graduates of accredited programs may be eligible to apply to take the examination offered by the Board of Registered Polysomnographic Technologists. Employment opportunities may be found in hospitals and freestanding sleep centers.

*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.

Polysomnography A45670	AAS	Diploma	Certificate
Minimum Major Hours Required	**49 SHC**	**30 SHC**	**12 SHC**
A. **CORE** **Required Courses:** PSG 110 Intro to Polysomnography 4 SHC PSG 111 Neuro/Cardiopulmonary A&P 4 SHC PSG 210 Polysomnography I 7 SHC PSG 211 Polysomnography II 7 SHC **Required Subject Areas:** **Instrumentation. Select one:** ELC 111 Intro to Electricity 3 SHC PSG 113 PSG Instrumentation 3 SHC	**25 SHC**		
B. **CONCENTRATION** *(Not applicable)*			
C. **OTHER MAJOR HOURS** *To be selected from the following prefixes:* BIO, CIS, CSC, MED, PSG, 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.*			

CURRICULUM STANDARD

Curriculum Program Title	**Electric Line Construction Technology**	Program Code	**A35230**
Concentration	**(not applicable)**	CIP Code	*46.0303*

Curriculum Description

The Electric Line Construction Technology curriculum prepares individuals to work as electric line construction technicians in the preparation and repair of rural electrical utility service. Students will combine electrical theory with laboratory and practical applications in the course of study.

Students will be expected to master competencies such as those included in elements of electricity, overhead pole and electrical line construction, safety codes and applications, electric power system, transformer and meter installations, and exploration of underground electrical distribution.

Upon successful completion of the program, individuals will receive the Associate of Applied Science degree and will possess the necessary skills for employment in the dynamic electrical utility field.

*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**

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*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.

Electric Line Construction Technology A35230	AAS	Diploma	Certificate
Minimum Major Hours Required	**49 SHC**	**30 SHC**	**12 SHC**
A. CORE	26-28 SHC		
Required Courses:			
ELC 231 Electric Power Systems 4 SHC			
ELT 111 Intro to Electric Line Construct 2 SHC			
ELT 112 National Elec Safety Code 3 SHC			
ELT 114 Overhead Line Const I 2 SHC			
ELT 115 Overhead Line Const II 2 SHC			
ELT 116 Overhead Line Const III 2 SHC			
ELT 117 Overhead Line Const IV 2 SHC			
ELT 211 Underground Line Const I 2 SHC			
ELT 212 Underground Line Const II 2 SHC			
ELT 221 Advanced Line Const 2 SHC			
Required Subject Areas:			
Basic Electricity. *Select 3-5 SHC:*			
ELC 111 Intro to Electricity 3 SHC			
ELC 112 DC/AC Electricity 5 SHC			
B. CONCENTRATION *(Not applicable)*			
C. OTHER MAJOR HOURS *To be selected from the following prefixes:* CIS, CSC, ELC, ELT, HEA, 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.*			

CURRICULUM STANDARD

Curriculum Program Title	**Supply Chain Management**	Program Code	**A25620**
Concentration	**(not applicable)**	CIP Code	*52.0203*

Curriculum Description

The Supply Chain Management curriculum prepares individuals for a multitude of career opportunities in distribution, transportation, warehousing, trucking operations, supply chain, and manufacturing organizations.

Course work includes the international and domestic movement of goods from the raw materials source(s) through production and ultimately to the consumer. Courses in economics and finance, transportation, warehousing, inventory control, material handling, purchasing, computerization, supply chain operations, federal transportation and safety regulations are emphasized.

Graduates should qualify for positions in a wide range of supply chain and logistics positions in government agencies, manufacturing, and service organizations. Employment opportunities include entry-level distribution, planning, material management, warehousing, inventory, transportation, trucking operations, international freight, and logistics.

*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**

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*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.

Supply Chain Management (A25620)

	AAS	Diploma	Certificate
Minimum Major Hours Required	**49 SHC**	**30 SHC**	**12 SHC**
CORE *A diploma offered under this AAS degree requires a minimum of 12 SHC extracted from the required subject/course core of the AAS degree.*	**27-32 SHC**		

Required Courses:

BUS	115	Business Law I	3 SHC
LOG	110	Introduction to Logistics	3 SHC

Required Subject Areas:

Accounting. *Select one:*

ACC	115	College Accounting	4 SHC
ACC	120	Prin of Financial Accounting	4 SHC

Computer Applications. *Select one.*

CIS	110	Introduction to Computers	3 SHC
CIS	111	Basic PC Literacy	2 SHC
OST	137	Office Software Applicat	3 SHC

***Economics.** *Select one:*

ECO	151	Survey of Economics	3 SHC
ECO	251	Prin of Microeconomics	3 SHC
ECO	252	Prin of Macroeconomics	3 SHC

* ECO 151, ECO 251 or ECO 252 must be taken to meet this requirement unless the student has taken ECO 151, 251 or 252 to meet the Social/Behavioral Science requirement.

Supply Chain Management (A25620) (Cont'd)			
Select one of the following three subject areas:			
I. Global Logistics Technology			
LOG 125 Transportation Logistics 3 SHC			
LOG 215 Supply Chain Management 3 SHC			
LOG 235 Import/Export Management 3 SHC			
LOG 240 Purchasing Logistics 3 SHC			
LOG 250 Advanced Global Logistics 4 SHC			
II. Distribution Management			
LOG 120 Global Logistics 3 SHC			
LOG 210 Fleet Management 3 SHC			
LOG 211 Distribution Management 3 SHC			
LOG 220 Logistics Management 3 SHC			
LOG 230 Transportation Management 3 SHC			
III. Trucking Operations Management			
BUS 153 Human Resources Management 3 SHC			
LOG 125 Transportation Logistics 3 SHC			
TOM 130 Fleet Maintenance 3 SHC			
TOM 250 Operations of Trucking I 3 SHC			
Select one:			
LOG 210 Fleet Management 3 SHC			
TOM 120 Introduction to Trucking 3 SHC			
B. **CONCENTRATION** *(Not applicable)*			
C. **OTHER MAJOR HOURS** *To be selected from the following prefixes:* ACC, AIB, ARA, ASL, BAF, BAS, BUS, CHI, CIS, CSC, CSV, CTS, DBA, ECM, ECO, ETR, FRE, GER, GIS, HRM, IEC, INT, ISC, ITA, JPN, LAT, LOG, MKT, OMT, OST, PAD, PMT, POR, RUS, SPA, TOM, WBL, and WEB *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.*			