



NORTH CAROLINA COMMUNITY COLLEGE SYSTEM

Ms. Jennifer Haygood

Acting President

March 19, 2018

MEMORANDUM

TO: Presidents
Chief Academic Officers

FROM: Wesley E. Beddard, Associate Vice President
Programs

SUBJECT: State Board Action on March 16, 2018
Early Childhood Uniform Articulation Agreement
Revised Curriculum Standards and EDU Courses
Additions to Special (Abbreviated) Program Application Curriculum Titles

On March 16, 2018, the State Board of Community Colleges approved the *Uniform Articulation Agreement between the University of NC Baccalaureate of Birth-Kindergarten and Early Childhood Related Programs and NC Community College System Applied Associate in Early Childhood Education Programs*. The agreement was developed in response to Session Law 2017-68, Senate Bill 315 (Part II) and is focused on developing seamless transfer for students who begin early childhood education at a community college and then transfer to one of the UNC baccalaureate of Early Childhood Education/Birth to Kindergarten programs. *Please note that the agreement is pending action by the Board of Governors which we anticipate on March 23, 2018. Following BOG approval, the agreement will be placed on our website at:*

<http://www.nccommunitycolleges.edu/academic-programs-college-transferarticulation-agreements>

The State Board also approved revisions to the following curriculum standards:

Dietetic Technician (A45310)
Early Childhood Education (A55220)*
Medical Dosimetry (Diploma) (D45450)
Ophthalmic Medical Assistant (Diploma) (D45110)

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>

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*Session Law 2017-68 required the system-wide implementation of the Early Childhood articulation agreement beginning with the 2018-2019 academic year. Therefore, the typical one-year, allowable delayed implementation does not apply for the **Early Childhood Education program revision and colleges must implement the revised curriculum with an effective term of fall 2018**. Due to the immediate need, the State Board approved the revision of the following three attached courses to assist colleges in Fall planning:

EDU 216 Foundations of Education
EDU 250 Praxis I Prep

EDU 234 Infants, Toddlers, and Twos

Please also note that the Transfer Advisory Committee approved four EDU courses (EDU 144, 145 216, and 221) for inclusion on the Comprehensive Articulation Agreement transfer course list in February. The transfer status is effective immediately.

We are aware that the timeline (see attached) created by the legislation poses challenges to colleges in updating the Early Childhood Education program for fall. We will give the review of revised Early Childhood Education programs of study top priority as they are received.

In addition to the above action, the State Board of Community Colleges approved the addition of the following curriculum titles for programs eligible to follow the abbreviated program approval process as listed in Section 3A (Special Curriculum Program Application) of the *Curriculum Procedures Reference Manual* which is located at:

<http://www.nccommunitycolleges.edu/academic-programs/curriculum-procedures-reference-manual-cprm>

Air Conditioning, Heating, and Refrigeration Tech (A35100)	Electrical Systems Tech (A35130)
Building Construction Technology (A35140)	Geomatics Technology (A40420)
Carpentry (Diploma)(D35180)	Masonry (Diploma) (D35280)
Construction Management Technology (A35190)	Plumbing (Diploma) (D35300)

If you have any questions concerning the Early Childhood Education program or the uniform articulation agreement, please contact Dr. Lisa Eads at eadsl@nccommunitycolleges.edu or 919.807.7133. If you have any questions concerning the remaining March State Board action items listed above, please contact Ms. Jennifer Frazelle at frazellej@nccommunitycolleges.edu or 919.807.7120.

WB/JF/gr
Attachments

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

Timeline for Implementation Early Childhood Education Changes for Fall 2018

February 2018

- The Transfer Advisory Committee approved the following four EDU courses for inclusion on the Comprehensive Articulation Agreement college transfer course list as pre-major electives:
 - EDU 144 Child Dev I
 - EDU 145 Child Dev II
 - EDU 216 Foundations of Education
 - EDU 221 Children with Exceptionalities

March 2018

- The Early Childhood Education (A55220) curriculum standard revision and Early Childhood Articulation Agreement* were approved by the State Board of Community Colleges on March 16, 2018.
- The following three EDU course revisions requests were approved by State Board.
 - EDU 216 Foundations of Education (hour change from 4 to 3 hours; course description revision)
 - EDU 234 Infants Toddlers and Twos (course description revision)
 - EDU 250 Praxis I (hour change from 1 hour to 3 hours, course title change to “Teacher Licensure Preparation”, revision to course description, and pre/corequisites)
- *Articulation Agreement will be presented to UNC-Board of Governors (BOG) for action on March 23, 2018.
- Following BOG approval, articulation agreement will be placed on NCCCS Office website at: <http://www.ncccommunitycolleges.edu/academic-programs-college-transferarticulation-agreements>

March – June 15, 2018

- Colleges will submit revised programs of study to the System Office for approval. Please note other programs of study that include EDU 216, EDU 234 and EDU 250 will need to be submitted with an effective term of Fall 2018.

Fall 2018

- All colleges must implement the revised Early Childhood curriculum standard and EDU course revisions for Fall 2018 implementation. (The typical one year allowable waiting period is not allowable due to Session Law 2017-68 which requires the system-wide

implementation of the Early Childhood articulation agreement beginning with the 2018-2019 academic year.)

Attachment

EDU Course Revisions
Approved by State Board of Community Colleges on March 16, 2018

All programs of study that include the following EDU courses must be submitted to the System Office for approval with an Effective Term Fall 2018:

EDU-216 Foundations of Education

Class 4- **3** Lab 0 Credit 4- **3**

This course introduces **the examination of the** American educational systems and the teaching profession. Topics include the historical and philosophical influences on education, various perspectives on educational issues, and experiences in **birth through grade 12** K-12 classrooms. Upon completion, students should be able to reflect on classroom observations, analyze the different educational approaches, including classical/traditional and progressive, and have knowledge of the various roles of educational systems at the federal, state and local level.

State Prerequisite: None

State Corequisite: DRE-098 Integrated Reading Writing III

Rationale: EDU 216 is part of the early childhood education uniform articulation agreement. Based on the feedback of university and community college faculty, the course should be revised from 4 hours to 3 hours. Additionally, the course description needs to be updated to include birth to grade 12.

Curriculum Standard Changes:

EDU 216 is a core course on the following curriculum standards:

Agriculture Education (A15100)

Early Childhood Education (A55220)

School-Age Education (A55440)

EDU-234 Infants, Toddlers, and Twos

Class 3 Lab 0 Credit 3

This course covers the development of high-quality, individualized, responsive/engaging relationships and experiences for infants, toddlers, and twos. **Emphasis is placed on typical and atypical child development, working with diverse families to provide positive, supportive, and engaging early learning activities and interactions through field experiences and the application of the NC Foundations for Early Learning and Development.** ~~Emphasis is placed on typical and atypical child development, positive early learning experiences, supporting and engaging diverse families, providing safe, warm and nurturing interactions, and the application of the NC Foundations for Early Learning and Development.~~ Upon completion, students should be able to demonstrate responsive **curriculum** planning, respectful relationships and exposure to a variety of developmentally appropriate experiences/materials that support a foundation for healthy development and growth of culturally, linguistically and ability diverse children birth to 36 months.

State Prerequisite: EDU-119 Introduction to Early Childhood Education
State Corequisite: DRE-098 Integrated Reading Writing III

Rationale: EDU 234 is part of the early childhood education uniform articulation agreement. Based on the feedback of university and community college faculty, the course should be revised to include a clear connection to curriculum planning and field experience.

Curriculum Standard Changes: EDU 234 is a core course on the following curriculum standards:

Early Childhood Education (A55220) Infant/Toddler Care (Certificate)(C55290)

EDU-250 ~~Praxis I Preparation~~ **Teacher Licensure Preparation**

Class ~~±~~ **3** Lab 0 Credit ~~±~~ **3**

~~This course is designed to prepare potential teachers for the PRAXIS I exam that is necessary to enter the field of education. Emphasis is placed on content specifications of the PRAXIS I exam, study skills and simulated examinations. Upon completion, students should be able demonstrate an understanding of the content necessary for successful completion of the PRAXIS I exam.~~

This course provides information and strategies necessary for transfer to a teacher licensure program at a senior institution. Topics include entry level teacher licensure exam preparation, performance based assessment systems, requirements for entry into teacher education programs, the process to become a licensed teacher in North Carolina, and professionalism including expectations within the field of education. Upon completion, students should be able to utilize educational terminology and demonstrate knowledge of teacher licensure processes including exam preparation, technology based portfolio assessment, and secondary admissions processes to the school of education at a senior institution.

State Prerequisite: ~~None~~

Take One Set:

Set 1: ENG 111 Writing and Inquiry and MAT 143 Quantitative Literacy

Set 2: ENG 111 Writing and Inquiry and MAT 152 Statistical Methods I

Set 3: ENG 111 Writing and Inquiry and MAT 171 Precalculus Algebra

State Corequisite: ~~Take DRE 098 Integrated Reading Writing III~~ **None**

Rationale: EDU 250 is part of the early childhood education uniform articulation agreement. Based on the feedback of university and community college faculty, the course should be revised from 1 hours to 3 hours. Additionally, the course description and course title needs to be updated to include topics relevant to the process of becoming a licensed teacher.

Curriculum Standard Changes:

EDU 250 is a core course on the following curriculum standard:

Early Childhood Education (A55220)

**Outline of Curriculum Standard Revisions
State Board of Community Colleges
March 16, 2018**

Dietetic Technician (A45310)(Effective Term Fall 2018)

- Revised the curriculum program title and program code to *Nutrition and Dietetics Technician (A45860)*
- Revised the curriculum description to incorporate nutrition.

Colleges approved to offer the Dietetic Technician (A45310) program will automatically receive approval to offer the Nutrition and Dietetics Technician (A45860) program.

Early Childhood Education (A55220)(Mandated Effective Term of Fall 2018)

- Revised current curriculum standard to align with the early childhood statewide articulation agreement.
- Inclusion of specific general education/UGETC courses
- Addition of new transfer specialty areas – licensure and non-licensure

Medical Dosimetry (Diploma) (D45450) (Effective Term Fall 2018)

- Removed the following archived courses from the required core:
DOS 240 Clinical Education I
DOS 241 Clinical Education II
DOS 242 Clinical Education III
- *Added the following courses to the core:*
DOS 280 Clinical Education I
DOS 281 Clinical Education II
DOS 282 Clinical Education III
DOS 283 Clinical Education IV
DOS 284 Clinical Education V

Note: The proposed curriculum standard revision includes new, revised, and archived courses, which were presented to the Curriculum Review Committee (CRC) on February 13, 2018. The addition and deletion of courses to the core will result in a change of core hours from 41 SHC to 40 SHC for the diploma program.

Ophthalmic Medical Assistant (Diploma) (D45110)(Effective Term Fall 2018)

- Changed highest degree level allowable from diploma to associate in applied science.
- Revised the curriculum program title and code to *Ophthalmic Medical Personnel* (A45210)
- Revised the curriculum description.
- Added the following courses to the Core:
 - *OPH 217 Ophthalmic Clin Proc III* *OPH 219 Ophtha Optics and Refract II*
 - *OPH 218 Adv Ophtha Patient Care* *OPH 220 Ophtha Med Assist Pract II*
- Identified required courses for a diploma.

Colleges approved to offer the Ophthalmic Medical Assistant (Diploma) (D45510) program will automatically receive approval to offer the Ophthalmic Medical Personnel (A45210) program. Colleges may continue to offer only the certificate or diploma level if they prefer not to offer the associate in applied science degree.

Note: The proposed curriculum standard revision includes reflection of revised course requests approved by the Curriculum Course Review Committee (CCRC) on February 13, 2018. The revision of courses to the core will result in a change of core hours from 30 SHC to 28 SHC for the diploma program. The associate degree will contain 42 SHC in the core.

CURRICULUM STANDARD

<i>Effective Term</i> Fall 2018 2018*03

Curriculum Program Title	Nutrition and Dietetics Technician	Program Code	A45860
Concentration	(not applicable)	CIP Code	51.3104

Curriculum Description

The Nutrition and Dietetics Technician program prepares individuals to promote optimal health through proper nutrition by providing personalized services to meet client’s needs, and ensure balanced diets. Nutrition and Dietetics Technicians work under the supervision of a registered, licensed dietician.

Course work includes content related to food, nutrition, communication, and management. The physical, biological, behavioral, and social sciences support these areas.

Employment opportunities include childcare centers, hospitals, correctional centers, public health agencies, retirement centers, rehabilitation centers, hospices, clinics, nursing homes, home care programs, or medical offices.

Curriculum Requirements*

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

- 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

- 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.

Nutrition and Dietetics Technician A45860

	AAS	Diploma	Certificate
Minimum Major Hours Required	49 SHC	30 SHC	12 SHC
A. CORE	46 SHC	NR	
Required Courses:			
BIO 275 Microbiology 4 SHC			
CHM 130 Gen, Org, & Biochemistry 3 SHC			
CHM 130A Gen, Org, & Biochemistry Lab 1 SHC			
CUL 110 Sanitation & Safety 2 SHC			
DET 112 Introduction to Nutrition 3 SHC			
DET 113 Basic Food Science 3 SHC			
DET 114 Supervised Practice I 2 SHC			
DET 116 Food Mgt Sys & Nutr Concepts 3 SHC			
DET 117 Foodservice Management Systems 5 SHC			
DET 118 Supervised Practice II 4 SHC			
DET 221 Nutr Asses & Skill Develop 3 SHC			
DET 222 Nutr Counseling & Education 3 SHC			
DET 224 Supervised Practice III 2 SHC			
DET 225 Profession of Dietetics 2 SHC			
DET 226 Medical Nutrition Therapy 3 SHC			
DET 227 Dietetics Overview 1 SHC			
DET 228 Supervised Practice IV 2 SHC			
Required Subject Areas: None			
B. CONCENTRATION <i>(Not applicable)</i>			
C. OTHER MAJOR HOURS			
BIO, CHM, CIS, CUL, DET, ENG, HEA, MAT, MED, NUT, PED, PSF, PSY, SOC, 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 for Teaching/Training: Early Childhood Education

Career Cluster: Education & Training **

Cluster Description: Planning, managing and providing education and training services, and related learning support services.

Pathway: Teaching/Training

Effective Term: Fall 2018 (2018*03)

Program Majors Under Pathway

Program Major / Classification of Instruction Programs (CIP) Code	Credential Level(s) Offered	Program Major Code	
Early Childhood Education	CIP Code 13.1210	AAS/Diploma/Certificate	A55220

Curriculum Description:

The Early Childhood Education curriculum prepares individuals to work with children from birth through eight in diverse learning environments. Students will combine learned theories with practice in actual settings with young children under the supervision of qualified teachers.

Course work includes child growth and development; physical/nutritional needs of children; care and guidance of children; and communication skills with families and children. Students will foster the cognitive/language, physical/motor, social/emotional, and creative development of young children.

Graduates are prepared to plan and implement developmentally appropriate programs in early childhood settings. Employment opportunities include child development and child care programs, preschools, public and private schools, recreational centers, Head Start Programs, and school-age programs.

*Program Major Description: The following 4th paragraphs is used in conjunction with the first three paragraphs of the pathway description above for documentation used to identify the **Program Major**:*

Early Childhood Education: A program that prepares individuals to promote child development and learning, work with diverse families and children, observe, document and assess to support young children and families, use content knowledge to build meaningful curriculum, and use developmentally effective approaches in collaboration with other early childhood professionals. Potential course work includes instruction in all areas of child development such as emotional/social/health/physical/language/communication, approaches to play and learning, working with diverse families, and related observations/student teaching experiences.

**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.*

Approved by the State Board of Community Colleges on August 16, 2012; SBCC Revised 01/18/13; Editorial Revision 02/20/13; Editorial Revision 08/21/13; CRC Revised—Electronic Only 02/05/14; Editorial Revision 03/07/14; SBCC Revised 03/16/18.

I. General Education Academic Core

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

Teaching/Training: Early Childhood Education

Recommended General Education Academic Core

AAS

Diploma

Certificate

Minimum General Education Hours Required:

15 SHC

6 SHC

0 SHC

The 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.

*Recommended certificate and diploma level curriculum courses. These courses may not be included in associate degree programs.

Communication:

COM	231	Public Speaking	U	3 SHC
ENG	111	Expository Writing	U	3 SHC

6 SHC

3-6 SHC

Optional

Humanities/Fine Arts:

ART	111	Art Appreciation	U	3 SHC
ART	114	Art History Survey I	U	3 SHC
ART	115	Art History Survey II	U	3 SHC
MUS	110	Music Appreciation	U	3 SHC
MUS	112	Introduction to Jazz	U	3 SHC
PHI	215	Philosophical Issues	U	3 SHC
PHI	240	Introduction to Ethics		3 SHC

3 SHC

0-3 SHC

Optional

Social /Behavioral Sciences:

PSY	150	General Psychology	U	3 SHC
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3 SHC

0-3 SHC

Optional

Natural Sciences/Mathematics:

MAT	143	Quantitative Literacy	U	3 SHC
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3 SHC

0-3 SHC

Optional

U indicates a Universal General Education Transfer Component (UGETC) course included in the Comprehensive Articulation Agreement. UGETC courses are guaranteed to transfer to any of the sixteen University of North Carolina senior institutions as equivalent credit within defined distribution limits.

Additional General Education for Transfer Specialty Areas (Block 2 of Articulation) 14 SHC

English Composition (Select 1)

ENG	112	Writing/Research in the Disc	U	3 SHC
ENG	114	Prof Research & Reporting		3 SHC

Social/Behavioral Science (Select 1)

ECO	251	Prin of Microeconomics	U	3 SHC
ECO	252	Prin of Macroeconomics	U	3 SHC
HIS	111	World Civilizations I	U	3 SHC
HIS	112	World Civilizations II	U	3 SHC
HIS	131	American History I	U	3 SHC
HIS	132	American History II	U	3 SHC
POL	120	American Government	U	3 SHC
SOC	210	Introduction to Sociology	U	3 SHC

Biological Science (Select 1)

BIO	110	Principles of Biology	U	4 SHC
BIO	111	General Biology I	U	4 SHC

Natural Science (Select 1)				
AST	111	Descriptive Astronomy & Lab (AST-111A)	U	4 SHC
AST	151	General Astronomy & Lab (AST-151A)	U	4 SHC
CHM	151	General Chemistry I	U	4 SHC
GEL	111	Introductory Geology	U	4 SHC
PHY	110	Conceptual Physics & Lab (PHY-110A)		4 SHC
<p><i>Refer to Blocks 1 and 2 of the Block Degree Plan for more information about required General Education in the proposed Early Childhood Education Statewide Articulation Agreement.</i></p>				

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.

Teaching/Training: Early Childhood Education	AAS	Diploma	Certificate
Minimum Major Hours Required:	49 SHC	30 SHC	12 SHC
<p>A. Technical Core: <i>Courses required for the diploma are designated with *</i></p> <p>*EDU 119 Intro to Early Child Education 4 SHC *EDU 131 Child, Family, & Community 3 SHC *EDU 146 Child Guidance 3 SHC *EDU 151 Creative Activities 3 SHC *EDU 153 Health, Safety & Nutrition 3 SHC *EDU 221 Children with Exceptional 3 SHC EDU 234 Infants, Toddlers & Twos 3 SHC EDU 280 Language & Literacy Experiences 3 SHC EDU 284 Early Child Capstone Practicum 4 SHC</p> <p>*Child Development. Select one set: EDU 144 Child Development I 3 SHC & EDU 145 Child Development II 3 SHC <i>OR</i> PSY 244 Child Development I 3 SHC & PSY 245 Child Development II 3 SHC</p>	35-41 SHC	25 SHC	

B. Transfer Specialty Area:

Required Specialty Subject Areas for students pursuing early childhood education birth to kindergarten transfer per the Early Childhood Articulation Agreement (ECAA); Not required for non-transfer students.

Select one specialty area:

1. Birth to Kindergarten (B-K) Licensure Transfer

EDU 216	Foundations of Education	3 SHC
EDU 250	Teacher Licensure Preparation	3 SHC

If Praxis requirement is met by ACT/SAT scores, take any 3 SHC EDU course.

2. Early Education Non-Licensure Transfer

EDU 261	Early Childhood Admin I	3 SHC
EDU 262	Early Childhood Admin II	3 SHC

Refer to Blocks 3 and 4 of Block Degree Plan for more information about required EDU courses in the proposed Early Childhood Education Statewide Articulation Agreement.

C. Other Major Hours.

The remaining other major hours may be chosen from the following prefixes:

ACC, ANT, ART, ASL, AST, BIO, BUS, CHM, CIS, COM, CSC, CTS, DAN, DBA, DRA, ECO, EDU, ENG, FRE, GEO, GER, HEA, HIS, HUM, MUS, OST, PED, PHI, PHS, POL, PSY, REL, SCI, SOC, SPA, 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.

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>*

***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>.*

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

CURRICULUM STANDARD

Effective Term
Fall 2018
[2018*03]

Curriculum Program Title	Ophthalmic Medical Personnel	Program Code	A45210
Concentration	(not applicable)	CIP Code	51.1803

Curriculum Description

The Ophthalmic Medical Personnel Program prepares individuals to perform ophthalmic procedures under the supervision of a licensed physician specializing in Ophthalmology. Course work includes lecture, laboratory, and clinical training in ocular measurements; ocular testing; lensometry; administering topical and oral medications; eye care; and caring for instruments.

Graduates are employed in medical institutions, clinics, or physician practices.

Graduates may qualify as candidates to take the Joint Commission on Allied Health Personnel, Ophthalmology National Certification Exam. Diploma graduates may be eligible for Certified Ophthalmic Medical Assistant certification and associate degree graduates may be eligible for Certified Ophthalmic Medical Technician certification.

Curriculum Requirements*

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

- 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

- 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.

Ophthalmic Medical Personnel A45210

	AAS	Diploma	Certificate
Minimum Major Hours Required	49 SHC	30 SHC	12 SHC
A. CORE <i>Courses required for the diploma are designated with *</i> Required Courses: <ul style="list-style-type: none"> * OPH 113 Intro to Diseases of Eye 2 SHC * OPH 114 Basic Ophthalmic Pharma 2 SHC * OPH 115 Ophthalmic Clin Proc I 2 SHC * OPH 116 Ophthalmic Med. Asst. Pract. I 6 SHC * OPH 117 Ophthalmic Clin Proc II 2 SHC * OPH 118 Ophthalmic Patient Care 2 SHC * OPH 119 Ophthal. & Basic Refract 2 SHC * OPH 120 Ophta Med Asst Pract II 6 SHC * OPH 150 Intro to Ophth Med Assist 2 SHC * OPH 151 Ocular Anat. & Physiology 2 SHC OPH 217 <u>Ophthalmic Clin Proc III</u> 2 SHC OPH 218 <u>Adv Ophtha Patient Care</u> 2 SHC OPH 219 <u>Ophtha Optics and Refract II</u> 2 SHC OPH 220 <u>Ophtha Med Assist Pract III</u> 8 SHC Required Subject Areas: None	42 SHC	28 SHC	
B. CONCENTRATION <i>(Not applicable)</i>			
C. OTHER MAJOR HOURS BIO, BUS, CIS, CSC, HEA, HSC, MED, OPH, PHY 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 2018
2018*03

Curriculum Program Title

Medical Dosimetry (Diploma)

Program
Code

D45450

Concentration

(not applicable)

CIP
Code

51.0907

Curriculum Description

The curriculum is designed to prepare ARRT certified radiation therapists to work in the care of cancer patients as medical dosimetrist. The curriculum provides instruction to enable the participant to become a member of the radiation oncology team.

The curriculum content includes specific coursework to provide classroom and direct clinical experience to train the student in the fundamentals of medical dosimetry practice using current technology, tools and techniques. Students will participate in studies related to the role of the medical dosimetrist and professional ethics, radiation oncology anatomy, treatment planning, dose calculations, clinical oncology, brachytherapy, dosimetry physics, radiation protection, quality assurance and computer applications.

Graduates of the program will be able to obtain employment as a medical dosimetrist and apply to the Medical Dosimetrist Certification Board (MDCB) to sit for a national certification.

Admission criteria include the completion of a bachelors degree.

Curriculum Requirements*

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

- 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

- 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 Dosimetry (Diploma) (D45450)

	AAS	Diploma	Certificate
Minimum Major Hours Required	49 SHC	30 SHC	12 SHC
A. CORE Required Courses: DOS 210 Introduction to Dosimetry 3 SHC DOS 220 Treatment Planning I 2 SHC DOS 221 Treatment Planning II 2 SHC DOS 230 Clinical Research Exper 2 SHC DOS 243 Dosimetry Physics 2 SHC DOS 250 Dose Calculations 2 SHC DOS 260 Dosimetry Special Procedures 3 SHC DOS 270 Medical Dosimetry Capstone 2 SHC DOS 280 Clinical Education I 4 SHC DOS 281 Clinical Education II 4 SHC DOS 282 Clinical Education III 4 SHC DOS 283 Clinical Education IV 5 SHC DOS 284 Clinical Education V 5 SHC		40 SHC	
B. CONCENTRATION <i>(Not applicable)</i>			
C. OTHER MAJOR HOURS <i>To be selected from the following prefixes:</i> CIS, CSC, CTS, DOS, RAD, RTT, 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>			