

STATE BOARD OF COMMUNITY COLLEGES
CURRICULUM STANDARD REVISIONS

The State Board is asked to approve revisions to the following curriculum standard(s):

Forsyth Technical Community College
Interventional Cardiac and Vascular Technology (A45410)

Montgomery Community College
Human Services Technology/Developmental Disabilities (A4538A)

Pitt Community College
Therapeutic Recreation Assistant (A45770)

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CURRICULUM STANDARD REVISION

**Forsyth Technical Community College
Interventional Cardiac and Vascular Technology (A45410)**

Forsyth Technical Community College is seeking approval to revise the Interventional Cardiac and Vascular Technology (A45410) curriculum standard, effective Fall 2014.

Proposed Revisions

- Revise the curriculum description.
- Add the following courses to the required Core:
ICV 118 Cardiology Procedures I
ICV 212 ICV Imaging Physics
- Remove the following courses from the required Core:
ICV 114 ICV Physics I
ICV 214 ICV Physics II.
- Add “not recommended (NR)” for diploma.
- Add the *EMS* prefix to the Other Major Hours section of the curriculum standard.

**Note: The proposed curriculum standard revision includes new and revised courses approved by the Curriculum Review Committee (CRC) on May 29, 2014.*

Rationale of Requesting College: The requesting college has completed a comprehensive curriculum review in response to national registry standards for the Registered Cardiovascular Invasive Specialist’s (RCIS) exam and the Joint Review Committee on Education in Cardiovascular Technology. The changes are needed in order to comply with the standards.

Vote Results:

Colleges approved to offer the program: 2
Colleges in favor of the recommendations: 2

Coordinator: Renee Batts

PROPOSED CURRICULUM STANDARD

Effective Term
Fall 2008
Fall 2014
[2008*03]
[2014*03]

Curriculum Program Title	Interventional Cardiac and Vascular Technology	Code	A45410
Concentration	(not applicable)		CIP Code: 51.0901

Curriculum Description

The Interventional Cardiac and Vascular Technology curriculum provides individuals with the knowledge and skills necessary to qualify as an entry-level Intervention Cardiac and Vascular Specialist.

Course work will include radiographic physics, radiation protection, patient care, ECG, pharmacology, anatomy and pathology. Clinical rotations will provide experiences with advanced radiographic imaging equipment and medications used to visualize human vasculature and organs.

Graduates should qualify for eligibility to apply for and take the Registered Cardiovascular **Intervention Technology Invasive Specialist** (RCIS) exams given by **the** Cardiovascular Credentialing International (CCI).

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.*

Proposed

Major Hours

[ref. 1D SBCC 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.

Interventional Cardiac and Vascular Technology (A45410)

	AAS	Diploma	Certificate
Minimum Major Hours Required	49 SHC	30 SHC	12 HC
A.Core	57 SHC	12 SHC	
Required Courses:		NR	
ICV 110 Patient Care/Fundamentals	3 SHC		
ICV 111 ICV Electrocardiography	1 SHC		
ICV 112 ICV Ionizing Radiation Effects	2 SHC		
ICV 113 ICV Neurovascular Procedures	2 SHC		
ICV 114 ICV Physics I	2 SHC		
ICV 214 ICV Physics II	2 SHC		
ICV 118 Cardiology Procedures I	2 SHC		
ICV 120 ICV Clinical Education I	2 SHC		
ICV 125 ICV Clinical Education II	4 SHC		
ICV 130 ICV Clinical Education III	4 SHC		
ICV 212 ICV Imaging Physics	3 SHC		
ICV 216 ICV Pharmacology	3 SHC		
ICV 217 ICV Equipment & Supplies	3 SHC		
ICV 218 Cardiology Procedures II	2 SHC		
ICV 219 Vascular Physiology & Proc	3 SHC		
ICV 220 ICV Clinical Education IV	8 SHC		
ICV 230 ICV Clinical Education V	8 SHC		
ICV 241 ICV Pathology Review	2 SHC		
Required Subject Areas:			
Anatomy and Physiology. Select one:			
BIO 166 Anatomy and Physiology II	4 SHC		
BIO 169 Anatomy and Physiology II	4 SHC		
Exam Prep. Select one:			
ICV 261 ICV Cardiac Exam Prep	1 SHC		
ICV 262 ICV Vascular Exam Prep	1 SHC		
B. CONCENTRATION (Not applicable)			
C. OTHER MAJOR HOURS			
<i>To be selected from the following prefixes:</i>			
BIO, CIS, CSC, CVS, EMS, ICT, ICV, IMG, NAN, NMT, NUR, RAD, RCP, RTT, SON, SUR, 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			

CURRICULUM STANDARD REVISION

**Montgomery Community College
Human Services Technology/Developmental Disabilities (A4538A)**

Montgomery Community College is seeking approval to revise the Human Services Technology/Developmental Disabilities (A4538A) curriculum standard, effective Fall 2014.

Proposed Revision:

Revise the curriculum description.

Rationale of Requesting College The proposed changes in the curriculum description from “mental retardation” to “study of developmental and intellectual disabilities” and “mentally retarded individuals” to “individuals with developmental and intellectual disabilities and their families” will reflect the amended language in federal health, education, and labor laws.

Vote Results:

Colleges approved to offer the program: 3
Colleges in favor of the revision: 3

Coordinator: Renee Batts

PROPOSED CURRICULUM STANDARD

Effective Term
Fall 2014
[2014*03]

Curriculum Program Title

Human Services Technology

Code

A4538A

Concentration

Developmental Disabilities

CIP Code: 51.1599

Curriculum Description

The Human Services Technology/Developmental Disabilities concentration is designed to train technicians to work with children and adults with physical, mental, and emotional disabilities. Students will specialize in the study of developmental and intellectual disabilities areas of developmental disabilities and mental retardation.

Students will gain an understanding of the handicapping effects of developmental disabilities in medical, psychological, social, educational, vocational, and economic terms. Fieldwork and clinical experience in community agencies providing comprehensive services to disabled persons and their families will be provided.

Graduates should qualify for employment in group homes, foster care homes, respite services, vocational rehabilitation agencies, sheltered workshops, adult developmental activities programs, early childhood intervention programs, and other programs for individuals with developmental and intellectual disabilities developmentally disabled and mentally retarded individuals and their families.

*Curriculum Requirements**

[for associate degree, diploma, and certificate programs in accordance with ID 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

Proposed

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.

Human Services Technology/Developmental Disabilities A4538A

	AAS	Diploma	Certificate
Minimum Major Hours Required	49 SHC	30 SHC	12 SHC
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> Required Courses: HSE 110 Introduction to Human Services 3 SHC HSE 112 Group Process I 2 SHC HSE 123 Interviewing Techniques 3 SHC HSE 125 Counseling 3 SHC HSE 210 Human Services Issues 2 SHC HSE 225 Crisis Intervention 3 SHC PSY 150 General Psychology 3 SHC Required Subject Areas: Psychology. Select one: PSY 110 Life Span Development 3 SHC PSY 241 Developmental Psychology 3 SHC PSY 281 Abnormal Psychology 3 SHC Sociology. Select one: SOC 210 Introduction to Sociology 3 SHC SOC 213 Sociology of the Family 3 SHC SOC 220 Social Problems 3 SHC	25 SHC	12 SHC	
B. CONCENTRATION <i>Courses unique to the concentration are designated with **</i> WBL 111 Work-Based Learning I 1 SHC WBL 115 Work-Based Learning Seminar I 1 SHC DDT 110 Developmental Disabilities 3 SHC ** DDT 120 Teaching Developmentally Disabled 3 SHC ** DDT 210 DDT Health Issues 3 SHC ** DDT 220 Program Planning Process 3 SHC	14 SHC	12 SHC	
C. OTHER MAJOR HOURS <i>To be selected from the following prefixes:</i> BIO, BUS, CIS, CSC, DDT, GRO, HEA, HSC, HSE, MED, MHA, OST, PBT, PSY, SAB, SOC, SWK, and WBL <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 REVISION

**Pitt Community College
Therapeutic Recreation Assistant (A45770)**

Pitt Community College is seeking approval to revise the Therapeutic Recreation Assistant (A45770) curriculum standard, effective Fall 2014.

Proposed Revision:

- Change curriculum standard title from Therapeutic Recreation Assistant to Recreational Therapy Assistant.
- Revise the curriculum description to reflect the Curriculum Program Title change.

**Note: As a result of the proposed revision to the curriculum standard title, the program code would change.*

Rationale of Requesting College: The designated credential by the North Carolina Board of Recreational Therapy Licensure for associate degree graduates of this program is Licensed Recreational Therapy Assistants. The change in the curriculum program title and description will accurately reflect the license.

Vote Results:

Colleges approved to offer the program: 2
Colleges in favor of the revision: 2

Coordinator: Renee Batts

PROPOSED CURRICULUM STANDARD

<i>Effective Term</i>
Fall 2008
Fall 2014
[2008*03]
[2014*14]

Curriculum Program Title	Therapeutic Recreation Assistant Recreational Therapy Assistant	Code	A45770 A45XXX
Concentration	(not applicable)		<i>CIP Code: 51.2309</i>

Curriculum Description

The **therapeutic-recreational therapy** assistant curriculum prepares individuals to plan, implement, and document therapeutic recreation interventions, according to national standards of practice. The curriculum emphasizes the use of recreation as treatment designed to (re)habilitate a client’s level of functioning and independence.

Course work includes facilitating adaptive, inclusive and universal activities (ropes courses, creative arts, water sports, etc) and leading or co-leading recreational therapy sessions (social skills, team building, problem solving, leisure education etc.) for people with disabilities and their families.

Graduates should qualify for a LRTA license from the North Carolina Board for Recreational Therapy Licensure. Employment opportunities include group homes, retirement facilities, agencies serving people with developmental disabilities, psychiatric or mental health agencies, and other rehabilitation facilities.

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.*

Proposed

Major Hours

[ref. 1D SBCC 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.

~~Therapeutic Recreation Assistant~~ Recreational Therapy Assistant A45770 A45XXX

	AAS	Diploma	Certificate
Minimum Major Hours Required	49 SHC	30 SHC	12 SHC
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> Required Courses: TRE 110 Introduction to Therapeutic Recreation 3 SHC TRE 112 Inclusive Programming 3 SHC TRE 210 Therapeutic Recreation Programming 3 SHC TRE 211 Therapeutic Recreation Professionalism 3 SHC Required Subject Areas: Therapeutic Recreation. Select 10 SHC of TRE courses. 10 SHC Clinical/work Experience. Select 8-12 SHC: TRE 288 Therapeutic Recreation Internship III 8 SHC TRE 289 Therapeutic Recreation Internship IV 12 SHC	30-34 SHC	12 SHC	
B. CONCENTRATION (Not applicable)			
C. OTHER MAJOR HOURS <i>To be selected from the following prefixes:</i> BIO, CIS, CSC, GRO, HEA, HSC, MED, PED, PSY, REC, SAB, SOC, TRE 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			