

CURRICULUM STANDARD

Effective Term
Fall 2011
[2011*03]

Curriculum Program Title Cardiovascular Technology Code A45170
(Invasive and Non-Invasive)
Concentration (not applicable)

Curriculum Description

Cardiovascular Technology is an allied health career which prepares individuals to develop technical and cognitive skills necessary to perform procedures leading to diagnosis and treatment of cardiovascular heart disease.

Course work emphasizes technical skill development with application of concepts of echocardiography, exercise stress testing, electrocardiography, cardiac catheterization, blood gases, electrophysiology, and anatomy and physiology.

Graduates selecting the non-invasive track may be eligible for the Cardiovascular Technology Registry and American Registry for Diagnostic Sonographers. Graduates selecting the invasive track may be eligible for the Invasive Registry to become a Registered Cardiovascular Invasive Specialist.

*Curriculum Requirements**

[for associate degree, diploma, and certificate programs in accordance with 23 NCAC 02E.0204 (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 experience, including cooperative education, practicums, and internships, 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. 23 NCAC 02E.0204 (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 experience, including cooperative education, practicums, and internships, 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.

Cardiovascular Technology (Invasive and Non-Invasive) A45170

	AAS	Diploma	Certificate
Minimum Major Hours Required	49 SHC	30 SHC	12 SHC
A. CORE	46	NR	NR
Required Courses:			
ICT 114 Intro Cardiovascular Tech	2 SHC		
ICT 134 CV Anatomy and Physiology	4 SHC		
ICT 136 Cardiac Cath I	5 SHC		
NCT 113 Electrocardiography	4 SHC		
NCT 133 CV Ultrasound Prin	3 SHC		
NCT 143 Echocardiography I	5 SHC		
Required Subject Area: (select one sequence)			
Invasive			
ICT 214 Cardiac Cath II	8 SHC		
ICT 234 Cardiac Cath III	12 SHC		
ICT 244 Peripheral Vascular Cath			
2 SHC			
ICT 254 Intro to Cardiac EP			
2 SHC			
Non-invasive			
NCT 251 Echocardiography II	7 SHC		
NCT 253 Hemodynamic Echo Prin	3 SHC		
NCT 273 Echocardiography III	14 SHC		
B. CONCENTRATION (Not applicable)			

<p>C. OTHER MAJOR HOURS <i>To be selected from the following prefixes:</i></p> <p>BIO, CHM, CIS, COE, CSC, ICT, MAT, MED, NCT, OST, PHY, and PSY</p> <p><i>Foreign language courses (including ASL) that are not designated as approved other major hours may be included in all programs up to a maximum of 3 semester hours of credit.</i></p>			
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