

CURRICULUM STANDARD

Effective Term
Fall 2016
[2016*03]

Curriculum Program Title	Cardiovascular Technology (Invasive and Non-Invasive)	Program Code	A45170
Concentration	(not applicable)	CIP Code	51.0901

Curriculum Description

Cardiovascular Technology is an allied health career that prepares individuals to develop attributes necessary to perform procedures leading to diagnosis and treatment of cardiovascular disease.

Course work emphasizes technical and cognitive skills by applying the concepts of echocardiography, electrocardiography, cardiac catheterization, and cardiovascular anatomy and physiology.

Graduates selecting the non-invasive track (Cardiac Sonography) are eligible for the Noninvasive Registry to become a Registered Diagnostic Cardiac Sonographer through American Registry of Medical Sonography (ARDMS) or a Registered Cardiac Sonography (RCS) through Cardiovascular Credentialing International, Inc. (CCI). Graduates selecting the invasive track (Cardiovascular Invasive Specialist) may be eligible for the Invasive Registry to become a Registered Cardiovascular Invasive Specialist (RCIS) through Cardiovascular Credentialing International, Inc. (CCI).

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.

Cardiovascular Technology (Invasive and Non-Invasive) A45170

	AAS	Diploma	Certificate
Minimum Major Hours Required	49 SHC	30 SHC	12 SHC
A. CORE Required Courses: <div style="display: flex; justify-content: space-between;"> <div style="width: 10%;">NCT</div> <div style="width: 10%;">134</div> <div style="width: 40%;">CV Anatomy and Physiology</div> <div style="width: 10%;">4 SHC</div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 10%;">ICT</div> <div style="width: 10%;">113</div> <div style="width: 40%;">Electrocardiography</div> <div style="width: 10%;">4 SHC</div> </div> Required Subject Area: (select one sequence) Invasive <div style="display: flex; justify-content: space-between;"> <div style="width: 10%;">ICT</div> <div style="width: 10%;">110</div> <div style="width: 40%;">Invasive Fundamentals</div> <div style="width: 10%;">3 SHC</div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 10%;">ICT</div> <div style="width: 10%;">136</div> <div style="width: 40%;">Cardiac & PV Invasive I</div> <div style="width: 10%;">6 SHC</div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 10%;">ICT</div> <div style="width: 10%;">140</div> <div style="width: 40%;">CV Hemodynamics I</div> <div style="width: 10%;">2 SHC</div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 10%;">ICT</div> <div style="width: 10%;">214</div> <div style="width: 40%;">Cardiac & PV Invasive II</div> <div style="width: 10%;">9 SHC</div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 10%;">ICT</div> <div style="width: 10%;">218</div> <div style="width: 40%;">Invasive Pharmacology</div> <div style="width: 10%;">2 SHC</div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 10%;">ICT</div> <div style="width: 10%;">234</div> <div style="width: 40%;">Cardiac & PV Invasive III</div> <div style="width: 10%;">13 SHC</div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 10%;">ICT</div> <div style="width: 10%;">236</div> <div style="width: 40%;">CV Hemodynamics II</div> <div style="width: 10%;">2 SHC</div> </div> Non-invasive <div style="display: flex; justify-content: space-between;"> <div style="width: 10%;">NCT</div> <div style="width: 10%;">110</div> <div style="width: 40%;">Echo Fundamentals</div> <div style="width: 10%;">3 SHC</div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 10%;">NCT</div> <div style="width: 10%;">133</div> <div style="width: 40%;">CV Ultrasound Prin</div> <div style="width: 10%;">3 SHC</div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 10%;">NCT</div> <div style="width: 10%;">143</div> <div style="width: 40%;">Echocardiography I</div> <div style="width: 10%;">6 SHC</div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 10%;">NCT</div> <div style="width: 10%;">251</div> <div style="width: 40%;">Echocardiography II</div> <div style="width: 10%;">8 SHC</div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 10%;">NCT</div> <div style="width: 10%;">253</div> <div style="width: 40%;">Hemodynamic Echo Prin</div> <div style="width: 10%;">3 SHC</div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 10%;">NCT</div> <div style="width: 10%;">273</div> <div style="width: 40%;">Echocardiography III</div> <div style="width: 10%;">14 SHC</div> </div>	45	NR	NR
B. CONCENTRATION (<i>Not applicable</i>)			
C. OTHER MAJOR HOURS To be selected from the following prefixes: BIO, CHM, CIS, CSC, ICT, MAT, MED, NCT, OST, PHY, PSY, 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>			