## **CURRICULUM STANDARD**

Curriculum Program Title	Cardiovascular Sonography	Program Code	A45160
Concentration	(not applicable)	CIP Code	51.0999

## **Curriculum Description**

The Cardiovascular Sonography curriculum provides the individual with the knowledge and skills necessary to acquire, process, and evaluate the human heart and vascular structures. A cardiovascular sonographer uses high frequency sound waves to produce images of the heart and vascular structures.

Course work includes effective communication and patient care skills combined with a knowledge of physics, human anatomy, physiology, and pathology, all of which are essential to obtaining high quality sonographic images.

Graduates may be eligible to apply to the American Registry of Diagnostic Medical Sonographers for examinations in physics, cardiovascular physics, vascular physics, and adult echocardiography. Graduates may find employment in hospitals, physicians' offices, mobile services, and educational institutions.

## 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 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

## **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.

			Cardiovas	cular Sonography A	45160		
					AAS	Diploma	Certificate
Minimum Major Hours Required				49 SHC	30 SHC	12 SHC	
		CORE	d under this AAS degree requires a minimu	m of	52-53 SHC	12 SHC	
	12 SH	C extracted	f from the required subject/course core of	the AAS degree.			
Req	uired C	ourses:					
	CVS	160	CVS Clinical Education I	5 SHC			
	CVS	161	CVS Clinical Education II	8 SHC			
	CVS	162	CVS Clinical Education III	5 SHC			
	CVS	163	Echo I	4 SHC			
	CVS	164	Echo II	4 SHC			
	CVS	260	CVS Clinical Education IV	8 SHC			
	CVS	261	CVS Clinical Education V	8 SHC			
	SON	111	Sonographic Physics	4 SHC			
	SON	250	Vascular Sonography	2 SHC			
Dee	.tue d C.						
-		ubject Ar d Physiolo	eas: ogy. Select one:				
	BIO	163	Basic Anatomy & Physiology	5 SHC			
	BIO	166	Anatomy and Physiology II	4 SHC			
	BIO	169	Anatomy and Physiology II	4 SHC			
в.	CONCENTRATION (Not applicable)						
C.	OTH	ER MAJO	R HOURS				
	To be selected from the following prefixes:						
	BIO, BUS, CHM, CIS, COM, CSC, CVS, ENG, HSC, MAT, PHY, PSY, SOC, SON,						
	and V		, , , , <b>.</b> , <b>.</b> , , , , , , , , , , , , , , ,	, , , ,			
	Up to	o two sen	nester hour credits may be selecte	d from ACA.			
	Up to		emester hour credits may be select , ASL, CHI, FRE, GER, ITA, JPN, LAT				