

CURRICULUM STANDARD

Effective Term
Fall 2008
[2008*03]

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

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 (RCIS) exams given by the Cardiovascular Credentialing International (CCI).

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.

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	AAS	Diploma	Certificate																																								
Minimum Major Hours Required	49 SHC	30 SHC	12 SHC																																								
<p>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></p> <p>Required Courses:</p> <table style="width: 100%; border: none;"> <tr><td style="padding-left: 20px;">ICV 110 Patient Care/Fundamentals</td><td style="text-align: right; padding-left: 20px;">3 SHC</td></tr> <tr><td style="padding-left: 20px;">ICV 111 ICV Electrocardiography</td><td style="text-align: right; padding-left: 20px;">1 SHC</td></tr> <tr><td style="padding-left: 20px;">ICV 112 ICV Ionizing RAD Effects</td><td style="text-align: right; padding-left: 20px;">2 SHC</td></tr> <tr><td style="padding-left: 20px;">ICV 113 Inter Neuro Radiography</td><td style="text-align: right; padding-left: 20px;">2 SHC</td></tr> <tr><td style="padding-left: 20px;">ICV 114 ICV Physics I</td><td style="text-align: right; padding-left: 20px;">2 SHC</td></tr> <tr><td style="padding-left: 20px;">ICV 214 ICV Physics II</td><td style="text-align: right; padding-left: 20px;">2 SHC</td></tr> <tr><td style="padding-left: 20px;">ICV 120 ICV Clinical Ed I</td><td style="text-align: right; padding-left: 20px;">2 SHC</td></tr> <tr><td style="padding-left: 20px;">ICV 125 ICV Clinical Ed II</td><td style="text-align: right; padding-left: 20px;">4 SHC</td></tr> <tr><td style="padding-left: 20px;">ICV 130 ICV Clinical Ed III</td><td style="text-align: right; padding-left: 20px;">4 SHC</td></tr> <tr><td style="padding-left: 20px;">ICV 216 ICV Pharmacology</td><td style="text-align: right; padding-left: 20px;">3 SHC</td></tr> <tr><td style="padding-left: 20px;">ICV 217 Inter Equip & Supplies</td><td style="text-align: right; padding-left: 20px;">3 SHC</td></tr> <tr><td style="padding-left: 20px;">ICV 218 Cardiac Physiology & Proc</td><td style="text-align: right; padding-left: 20px;">3 SHC</td></tr> <tr><td style="padding-left: 20px;">ICV 219 Vascular Physiology & Proc</td><td style="text-align: right; padding-left: 20px;">3 SHC</td></tr> <tr><td style="padding-left: 20px;">ICV 220 ICV Clinical Ed IV</td><td style="text-align: right; padding-left: 20px;">8 SHC</td></tr> <tr><td style="padding-left: 20px;">ICV 230 ICV Clinical Ed V</td><td style="text-align: right; padding-left: 20px;">8 SHC</td></tr> <tr><td style="padding-left: 20px;">ICV 241 ICV Pathology Review</td><td style="text-align: right; padding-left: 20px;">2 SHC</td></tr> </table> <p>Required Subject Areas:</p> <p>Anatomy and Physiology. Select one:</p> <table style="width: 100%; border: none;"> <tr><td style="padding-left: 20px;">BIO 166 Anatomy and Physiology II</td><td style="text-align: right; padding-left: 20px;">4 SHC</td></tr> <tr><td style="padding-left: 20px;">BIO 169 Anatomy and Physiology II</td><td style="text-align: right; padding-left: 20px;">4 SHC</td></tr> </table> <p>Exam Prep. Select one:</p> <table style="width: 100%; border: none;"> <tr><td style="padding-left: 20px;">ICV 261 ICV Cardiac Exam Prep</td><td style="text-align: right; padding-left: 20px;">1 SHC</td></tr> <tr><td style="padding-left: 20px;">ICV 262 ICV Vascular Exam Prep</td><td style="text-align: right; padding-left: 20px;">1 SHC</td></tr> </table>	ICV 110 Patient Care/Fundamentals	3 SHC	ICV 111 ICV Electrocardiography	1 SHC	ICV 112 ICV Ionizing RAD Effects	2 SHC	ICV 113 Inter Neuro Radiography	2 SHC	ICV 114 ICV Physics I	2 SHC	ICV 214 ICV Physics II	2 SHC	ICV 120 ICV Clinical Ed I	2 SHC	ICV 125 ICV Clinical Ed II	4 SHC	ICV 130 ICV Clinical Ed III	4 SHC	ICV 216 ICV Pharmacology	3 SHC	ICV 217 Inter Equip & Supplies	3 SHC	ICV 218 Cardiac Physiology & Proc	3 SHC	ICV 219 Vascular Physiology & Proc	3 SHC	ICV 220 ICV Clinical Ed IV	8 SHC	ICV 230 ICV Clinical Ed V	8 SHC	ICV 241 ICV Pathology Review	2 SHC	BIO 166 Anatomy and Physiology II	4 SHC	BIO 169 Anatomy and Physiology II	4 SHC	ICV 261 ICV Cardiac Exam Prep	1 SHC	ICV 262 ICV Vascular Exam Prep	1 SHC	57 SHC	12 SHC	
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<i>Continued on next page</i>																																											

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B. CONCENTRATION <i>(Not applicable)</i>			
C. OTHER MAJOR HOURS <i>To be selected from the following prefixes:</i> BIO, CIS, COE, CSC, CVS, ICT, ICV, IMG, NAN, NMT, NUR, RAD, RCP, RTT, SON, and SUR <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>			