# Northern Virginia Community College 2008-2009 Catalog Medical Education - Allied Health and Nursing Curricula

# DIAGNOSTIC MEDICAL SONOGRAPHY: Echocardiography Specialization

Associate of Applied Science Degree

**MEC** 

Purpose: The curriculum prepares students to produce diagnostic images of the heart structures and motion to diagnose cardiovascular changes. The echocardiographer uses special equipment to direct high frequency sound waves into areas of the patient's body. The echocardiographer is a central member of the health care team and assists the radiologist in body image interpretation. Upon successful completion of degree requirements, the student will be eligible to apply to take the American Registry of Diagnostic Medical Sonography examinations leading to credentials as a Registered Diagnostic Cardiac Sonographer (RDCS®).

### Admission Requirements:

### Students must:

- Comply with all General Admission Requirements for Allied Health Programs.
- Attend a Diagnostic Medical Sonography Information Session.
- Complete BIO 141 Anatomy and Physiology I with a "B" or higher.
- Complete DMS 100 Orientation to the Sonography Profession with a "B" or higher.
- Complete ENG 111 College Composition I with a grade of "C" or higher.
- Complete MTH 151 Mathematics for the Liberal Arts I with a "C" or higher.
- Complete PHY 195 Topics in Ultrasound Acoustical Physics with a "B" or higher.
- Complete SDV 101 Orientation to Healthcare with a "C" or higher.

Prerequis BIO DMS ENG MTH PHY SDV	141 Human Anatomy and Physiology I 100 Orientation to the Sonography Profession 111 College Composition I 151 Mathematics for Liberal Arts I 195 Topics in Ultrasound Acoustical Physics 101 Orientation to Healthcare Total	Credits  4  1  3  3  2  1  14
Two Year 1st Semes BIO DMS DMS DMS DMS DMS		4 1 2 2 1 3 13
2nd Seme DMS DMS DMS DMS DMS 1PED	150 Echocardiography I 209 Ultrasound Physics and Instrumentation II 219 Ultrasound Physics and Instrumentation Lab II 231 Clinical Education I 256 Echocardiography Case Study Review 116 Lifetime Fitness and Wellness Total	4 2 1 3 1 2 13
<b>3rd Seme</b> DMS	ster 232 Clinical Education II Total	<u>4</u> <b>4</b>
4th Seme DMS DMS <sup>2</sup> SPD	ster 190 Coordinated Internship 250 Echocardiography II Speech Elective Total	5 4 <u>3</u> <b>12</b>

# DIAGNOSTIC MEDICAL SONOGRAPHY A.A.S.: Echocardiography Specialization

#### 5th Semester

DMS	255 Echocardiography Registry Review	2
DMS	290 Coordinated Internship	4
HIS	101 History of Western Civilization I or	
	HIS 111 History of World Civilization I or	
	HIS 261 Topics in Cultural Ethnicity	3
3	Social Science Elective	3
	Total	12

Total credits for the A.A.S. Degree in Diagnostic Medical Sonography with a Specialization in Echocardiography = 68 (includes 14 prerequisite credits).

<sup>&</sup>lt;sup>1</sup> The PED requirement may be met by one of the following options: PED 116, 2 cr.; PED 220, 2 cr.; PED 116, 1 cr. plus a PED activities course, 1 cr.; or PED 116, 1 cr. plus RPK activities course. PED 116 is offered as both a 1-credit and a 2-credit course.

<sup>&</sup>lt;sup>2</sup> The speech elective may be selected from SPD 229 Intercultural Communication, SPD 110 Introduction to Speech Communication, SPD 115 Small Group Communication, or SPD 126 Interpersonal Communication.

<sup>&</sup>lt;sup>3</sup> The social science elective may be selected from the social/behavioral sciences courses listed under General Education Electives.