

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

**DIAGNOSTIC MEDICAL SONOGRAPHY:  
Vascular Sonography Specialization**

Associate of Applied Science Degree

**MEC**

*Purpose:* The curriculum is designed to prepare students to produce diagnostic images of the blood and blood flow. The vascular sonographer uses special equipment to direct high frequency sound waves into areas of the patient's body. The vascular sonographer 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 Medical Sonography (RDMS®), Registered Diagnostic Cardiac Sonographer (RDCS®) and Registered Vascular Technologist (RVT®).

*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.

**Prerequisites:**

		<b>Credits</b>
BIO	141 Human Anatomy and Physiology I	4
DMS	100 Orientation to the Sonography Profession	1
ENG	111 College Composition I	3
MTH	151 Mathematics for Liberal Arts I	3
PHY	195 Topics in Ultrasound Acoustical Physics	2
SDV	101 Orientation to Healthcare	<u>1</u>
	<b>Total</b>	<b>14</b>

**Two Years**

**1st Semester**

		<b>Credits</b>
BIO	142 Human Anatomy and Physiology II	4
DMS	196 On-Site Training in Vascular Sonography	1
DMS	206 Introduction to Sonography	2
DMS	208 Ultrasound Physics and Instrumentation I	2
DMS	218 Ultrasound Physics and Instrumentation Lab I	1
DMS	245 Vascular Ultrasound Sectional Anatomy	<u>3</u>
	<b>Total</b>	<b>13</b>

**2nd Semester**

DMS	160 Vascular Sonography I	4
DMS	209 Ultrasound Physics and Instrumentation II	2
DMS	219 Ultrasound Physics and Instrumentation Lab II	1
DMS	231 Clinical Education I	3
DMS	265 Vascular Case Study Review	1
<sup>1</sup> PED	116 Lifetime Fitness and Wellness	<u>2</u>
	<b>Total</b>	<b>13</b>

**3rd Semester**

DMS	232 Clinical Education II	<u>4</u>
	<b>Total</b>	<b>4</b>

**4th Semester**

DMS	190 Coordinated Internship	5
DMS	260 Vascular Sonography II	4
<sup>2</sup> SPD	Speech Elective	<u>3</u>
	<b>Total</b>	<b>12</b>

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**DIAGNOSTIC MEDICAL SONOGRAPHY A.A.S.:**  
**Vascular Sonography Specialization**

**5th Semester**

DMS	266 Vascular Ultrasound 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
<sup>3</sup> _____	Social Science Elective	<u>3</u>
	<b>Total</b>	<b>12</b>

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

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