

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

DIAGNOSTIC MEDICAL SONOGRAPHY

Associate of Applied Science Degree

MEC

Purpose: This curriculum is designed to prepare students to produce diagnostic images of the human body using special equipment to direct high frequency sound waves into areas of the patient's body. The sonographer is a central member of the health care team and assists the radiologist in body image interpretation. Upon successful completion of the 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 Sonographer (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:

		Credits
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>
	Total	14

Two Years Credits

1st Semester

BIO	142 Human Anatomy and Physiology II	4
DMS	196 On-Site Training in General Sonography	1
DMS	206 Introduction to Sonography	2
DMS	207 Sectional Anatomy	2
DMS	208 Ultrasound Physics and Instrumentation I	2
DMS	217 Sectional Anatomy Laboratory	1
DMS	218 Ultrasound Physics and Instrumentation Lab I	<u>1</u>
	Total	13

2nd Semester

DMS	209 Ultrasound Physics and Instrumentation II	2
DMS	211 Abdominal Sonography	3
DMS	212 Obstetrical and Gynecological Sonography	3
DMS	219 Ultrasound Physics and Instrumentation Lab II	1
DMS	231 Clinical Education I	<u>3</u>
	Total	12

3rd Semester

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

4th Semester

DMS	190 Coordinated Internship	5
DMS	241 Advanced Abdominal Sonography	3
DMS	242 Advanced Obstetrical and Gynecological Sonography	3
¹ SPD	Speech Elective	<u>3</u>
	Total	14

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DIAGNOSTIC MEDICAL SONOGRAPHY A.A.S.

5th Semester

DMS	222 Sonography Registry Review	2
DMS	243 Breast Sonography	1
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
² PED	116 Lifetime Fitness and Wellness	2
³ _____	Social Science Elective	<u>3</u>
	Total	15

Total credits for the A.A.S. Degree in Diagnostic Medical Sonography = 72 (includes 14 prerequisite credits).

¹ 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.

² 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.

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