

# DIAGNOSTIC MEDICAL SONOGRAPHY: Associate of Science Degree

With emphasis in Multispecialty or Cardiovascular Sonography

## Mission Statement

The Diagnostic Medical Sonography Program at NMC provides high quality, enthusiastic students an ambitious education that prepares them to become entry-level sonographers. The education is supported by a caring team of educators with expertise in various aspects of Sonography, who have commitment to education, and a dedication to the integration of didactic, laboratory and clinical objectives.

## Description

Students may earn an Associate of Science Degree in Sonography by specializing in Multispecialty or General Sonography which prepares students to sit for the ARDMS abdomen and obstetrics/gynecology examinations; or Cardiovascular Sonography which prepares students to sit for the ARDMS adult echocardiography and vascular technology examinations. The general education requirements are the same for all AS Sonography students, regardless of track. The professional courses reflect the learning concentrations specific to specialization. In addition to student-centered, didactic and laboratory learning experiences, students obtain supervised clinical hands-on experience at hospitals and clinics throughout Omaha and neighboring cities and communities. The opportunity for a clinical externship during the student's final clinical practicum course is also available for those students meeting the externship requirements. Specific program goals and objectives are provided in the Diagnostic Medical Sonography Student Handbook, which is available on the College Website.

## Admission Criteria/ Prerequisites

In addition to the College admission criteria applicants to the sonography programs must have completed or be in progress with the following college courses:

- College Algebra (or equivalent course)
- General Physics
- English Composition

## Curriculum- Multispecialty Sonography

### First Year - Summer Session

	Credit Hours
HU 150 The World of Ideas: Critical Reasoning & Rhetoric	3
HU 220, The World of Ideas: Elective 255 or 270	3
SC 116 Medical Terminology	1
SO 102 Foundations of Sonography	2

### First Year - Fall Session

	Credit Hours
SO 108 Intro to Sonography & Patient Care	6
SS 215 Life-Span Psychology	3
SC 200 Human Anatomy & Physiology	5

### First Year - Spring Session

	Credit Hours
SC 206 Pathophysiology/Pharmacology	4
SO 115 Clinical Practicum I	2
SO 233 Sonographic Anatomy, Pathology & Critique I	5
SO 260 Medical Ethics & Law in Imaging	1
SO 214 Sonographic Physics I	2
SO 262 Applied Sectional Anatomy in Imaging	1

<b>Second Year - Summer Session</b>		<b>Credit Hours</b>
SO 239	Sonographic Anatomy, Pathology & Critique II	6
SO 237	Sonographic Clinical Practicum II	4
SO 216	Sonographic Physics II	1

<b>Second Year - Fall Session</b>		<b>Credit Hours</b>
SS 235	The Sociology of Culture	3
SO 243	Sonographic Anatomy, Pathology & Critique III	6
SO 248	Sonographic Clinical Practicum III	5
SO 218	Sonographic Physics III	2

<b>Second Year - Spring Session</b>		<b>Credit Hours</b>
CM 230	Language and Culture in Health Care or 245	3
SO 253	Sonographic Clinical Practicum IV	5
SO 255	Sonographic Anatomy, Pathology & Critique IV	3
SO 236	Sonographic Seminar	2
CM 290	Portfolio Synthesis	0

**Program Total Hours: 78**

## **Curriculum- Cardiovascular Sonography**

<b>FIRST YEAR - Summer Session</b>		<b>Credit Hours</b>
SC 116	Medical Terminology	1
HU 150	The World of Ideas: Critical Reasoning & Rhetoric	3
HU 220, 255 or 270	The World of Ideas: Elective	3
SO 102	Foundations of Sonography	2

<b>FIRST YEAR - Fall Semester</b>		<b>Credit Hours</b>
SS 215	Life-Span Psychology	3
SC 200	Human Anatomy & Physiology	5
SO 118	Intro to Sonography & Patient Care	6

<b>FIRST YEAR - Spring Semester</b>		<b>Credit Hours</b>
SC 206	Pathophysiology/Pharmacology	4
SO 126	Cardiovascular Clinical Practicum I	2
SO 260	Medical Ethics & Law in Imaging	1
SO 238	Cardiovascular Sonographic Anatomy, Pathology & Critique I	6
SO 214	Sonographic Physics	2
SO 262	Applied Sectional Anatomy in Imaging	1

<b>SECOND YEAR - Summer Session</b>		<b>Credit Hours</b>
SO 256	Cardiovascular Clinical Practicum II	4
SO 258	Cardiovascular Sonographic Anatomy, Pathology & Critique II	6
SO 216	Sonographic Physics II	1

<b>SECOND YEAR - Fall Semester</b>		<b>Credit Hours</b>
SS 235	The Sociology of Culture	3

SO 259	Cardiovascular Clinical Practicum III	6
SO 218	Sonographic Physics III	2
SO 261	Cardiovascular Sonographic Anatomy, Pathology & Critique III	5

**SECOND YEAR - Spring Semester** **Credit Hours**

CM 230 or 245	Language and Culture in Health Care	3
SO 265	Cardiovascular Clinical Practicum IV	6
SO 267	Cardiovascular Sonographic Anatomy, Pathology & Critique IV	1
SO 235	Cardiovascular Seminar	2
CM 290	Portfolio Synthesis	0

**Program Total Hours: 78**

## **DIAGNOSTIC MEDICAL SONOGRAPHY: Advanced Skills Certificate in Vascular Sonography (On-line)**

### **Description**

This 6 credit hour (90 contact hours) online Advanced Skills Certificate will allow diagnostic medical sonography professionals with either a recognized degree in sonography or current active certification through the American Registry of Diagnostic Medical Sonography (ARDMS) to expand their knowledge and skill in vascular technology. Limited supervised clinical/lab experience may be available; however, it does not fulfill the ARDMS requirement for clinical verification.

<b>Curriculum:</b>		<b>Contact Hours</b>
<b>Program Total Hours:</b>		<b>90</b>
SO 001	Principles of Hemodynamics	10
SO 002	Extremity Venous Principles and Procedures	20
SO 003	Extremity Arterial Principles and Procedures	20
SO 004	Cerebrovascular Principles and Procedures	20
SO 005	Misc. Applications in Vascular Technology	20
SO 006	Online Registry Review Course (optional)	