



# Diagnostic Medical Sonography, Associate in Applied Science (2019-20 Catalog)

Developmental Education Courses (if required)			
<input type="checkbox"/>	ACLS050	Introduction to Academic Literacy	<input type="checkbox"/>
<input type="checkbox"/>	ENGL027	Writing Skills Workshop	<input type="checkbox"/>

Diagnostic Medical Sonography Program Prerequisites			
<input type="checkbox"/>	Completion of high school diploma or GED		
<input type="checkbox"/>	One year of HS Biology w/lab with a grade of B or better or BIOS115 Essentials of Biology		
<input type="checkbox"/>	Two units of algebra with a C or better or MATH022 and MATH026 with a C or better		
<input type="checkbox"/>	Admissions Change of Major Form		
<input type="checkbox"/>	Transcripts (high school, college- attended/enrolled)		Application Packet is due by February 1st
<input type="checkbox"/>	Career Assessment Form		
<input type="checkbox"/>	Minimum GPA of 3.0		
Competitive applicants will be interviewed by the program's admission committee			

After Acceptance	
<input type="checkbox"/>	Negative criminal background & child abuse checks (or clearance for positive results) are required prior to program start
<input type="checkbox"/>	Negative drug screening, immunizations and a physical exam are also required
<input type="checkbox"/>	CPR (adult/child/infant & AED) certification & health insurance coverage must remain current throughout the length of the program

**SEMESTER-BY-SEMESTER PROGRAM MAP FOR FULL-TIME STUDENTS**  
**Courses are listed in preferred order of completion**  
*Plans can be modified to fit student needs by adding more semesters*  
**Choose your courses with your Advisor.**

Meeting the minimum admissions requirements does not guarantee admission. Primary consideration is given to those who have completed:

- College Algebra, Human Anatomy I & II with a B or better the first time a course is taken
- The general education courses that apply to the program

Location: B= BETH, M= MROE, S=SBTH, E= ESTN, D= DIST \*subject to change

complete	Course #	Course Title	Credits	Gen Ed	Fall	Winter	Spring	Summer	Pre-requisites / Co-requisites
<input type="checkbox"/>	COLS101	College Success	1		B, M, D	----	B, M, D	D	
<input type="checkbox"/>	BIOS204	Human Anatomy and Physiology I	4	Science	B,M,D	----	B,M,D	B,M	PRE: One year of HS Biology or BIOS107 or 115
<input type="checkbox"/>	DMSG101	Essentials of Patient Care	2		B	----	----	----	
<input type="checkbox"/>	DMSG102	Intro to Diagnostic Medical Sonography	1		B	----	----	----	
<input type="checkbox"/>	DMSG103	Intro to Acoustic Physics	2		B	----	----	----	PRE or CO: MATH 140
<input type="checkbox"/>	DMSG104	Intro to Clinical Education	1		B	----	----	----	
<input type="checkbox"/>	DMSG125	Sectional Anatomy for Medical Imagers	1		B	----	----	----	PRE: BIOS204
<input type="checkbox"/>	ENGL101	English I	3	Comm.	B,M,D	----	B,M,D	B,M,D	PRE: English Placement Policy
<input type="checkbox"/>	MATH140	College Algebra	3	QL	B,M,D	----	B,M,D	B,M,D	PRE: MATH026 or Math Placement
		Total Semester Credits:	18						

<input type="checkbox"/>	BIOS254	Human Anatomy and Physiology II	4	Science	B,M,D	----	B,M,D	B,M	PRE: BIOS204 with a C or better
<input type="checkbox"/>	DMSG105	Acoustics Physics and Instrumentation I	2		----	----	B	----	PRE: MATH140
<input type="checkbox"/>	DMSG110	Abdominal Sonography-Anatomy, Physiology, Imaging & Critique I	4		----	----	B	----	PRE: BIOS204 PRE or CO: BIOS254
<input type="checkbox"/>	DMSG115	OB & GYN Sonography- Anatomy, Physiology, Imaging, & Critique I	4		----	----	B	----	PRE: BIOS204 PRE or CO: BIOS254
<input type="checkbox"/>	DMSG124	Clinical Education I	2		Spring- Clinical Sites				PRE: DMSG104
		Total Semester Credits:	16						

(semesters continue on page 2)

Summer		Semester 3 (Summer)							
<input type="checkbox"/>	DMSG174	Clinical Education II	2		Clinical Sites				PRE: DMSG124
<input type="checkbox"/>		Elective	3		B, M, D	D	B, M, D	B, M, D	
		Total Semester Credits:	5						

	complete	Course #	Course Title	Credits	Gen Ed	Fall	Winter	Spring	Summer	Pre-requisites / Co-requisites
Semester 4	<input type="checkbox"/>	CMTH102	Introduction to Communication	3	Comm.	B, M, D	----	B, M, D	B, M, D	
	<input type="checkbox"/>	DMSG155	Acoustic Physics and Instrumentation II	3		B	----	----	----	PRE: DMSG105
	<input type="checkbox"/>	DMSG160	Abdominal Sonography – Anatomy, Physiology, Imaging, & Critique II	4		B	----	----	----	PRE: DMSG110
	<input type="checkbox"/>	DMSG163	Fundamentals of Fetal Scanning	1		B	----	----	----	
	<input type="checkbox"/>	DMSG224	Clinical Education III	2		Fall- Clinical Sites				PRE: DMSG174
	<input type="checkbox"/>	ENGL151L	English II (Literature) (D)	3	Comm.	B, M, D	----	B, M, D	B, M, D	PRE: ENGL101
		Total Semester Credits:	16							

Semester 5	<input type="checkbox"/>	DMSG 165	OB & GYN Sonography – Anatomy, Physiology, Imaging, & Critique II	4		----	----	B	----	PRE: DMSG115
	<input type="checkbox"/>	DMSG 215G	Small Parts and Special Topics	2		----	----	B	----	PRE: ENGL101
	<input type="checkbox"/>	DMSG 234	Clinical Education IV	3		Spring- Clinical Sites				PRE: DMSG224
	<input type="checkbox"/>	DMSG 235	Introduction to Vascular Sonography	2		----	----	B	----	
	<input type="checkbox"/>	PSYC 103	Introduction to Psychology	3	SSHB	B, M, D	D	B, M, D	B, M, D	PRE: Reading/Writing competency for ENGL101
	<input type="checkbox"/>		SIT General Education Elective	3	SIT	B, M, D	D	B, M, D	B, M, D	
		Total Semester Credits:	17							

Summer		Semester 6 (Summer)							
<input type="checkbox"/>	DMSG174	Clinical Education V	3		Clinical Sites				PRE: DMSG234
		Total Semester Credits:	3						
		Total Degree Credits	75						

General Education Requirements		
<input type="checkbox"/>	ENGL151L	Diversity
<input type="checkbox"/>	DMSG215G	Writing Intensive

**Notes:** Elective: All courses except: OXX-level courses; EARL 221, EARL 222.

**Program Narrative:**

- With America's growing and aging population, the healthcare sector continues to offer growth in employment opportunities. Sonography is a key part of today's advanced medical practices, and qualified sonography graduates from Northampton find good-paying, flexible and rewarding positions throughout the country. Completion of the program requirements of Northampton's Associate in Applied Science (AAS) degree allows the graduate the opportunity to sit for the American Registry of Diagnostic Medical Sonographer's (ARDMS) examination.
- NCC's sonography program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) in collaboration with the Joint Review Committee on Education in Diagnostic Medical Sonography (JRC-DMS).

Diagnostic Medical Sonography  
 Commission on Accreditation of Allied Health Education Programs (CAAHEP)  
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 Joint Review Committee on Education in Diagnostic Medical Sonography  
 6021 University Blvd, Suite 500  
 Ellicott, MD 21043  
 Phone: (443) 973-3251 Fax: (866) 738-3444 [www.jrcdms.org](http://www.jrcdms.org) [magat@jrcdms.org](mailto:magat@jrcdms.org)

**Program Learning Outcomes:**

To prepare competent entry level general sonographers in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains.

- o with a broad knowledge base that enables them to embrace life-long learning.
- o who are able to adapt to ever-changing technology in the health care industry.
- o who are competent to pass the certification examination.
- o who meet or exceed the needs of their employers.

**Career Potential:** Sonographer (RDMS), Echocardiographer (RDCS), Vascular Technologist (RVT)

**Transfer Potential:** Thomas Jefferson University, Misericordia University and Adventist University of Health Sciences.

Societies & Institutions Over Time (SIT)	HIST 140 Modern Chinese History	POLS 101 Introduction to Political Science
CMTH 221 History of Broadcasting	HIST 153 Found of Mod Euro History, 1300-1815 (G-WI)	POLS 105 American Constitutional Law (G-WI)
GEOG 101 World Geography	HIST 163 American History II	POLS 110 American National Government (G-WI)
GEOG 151 Geography of the U.S. and Canada (G-WI)	HIST 165 The American Experience of Warfare (G-WI)	POLS 150 Peace Studies & Conflict Resolution (Study Abroad)
GLBL 130 Intro to Global Studies	HIST 166 Civil War and Reconstruction (G-WI)	POLS 170 Politics of Modern Turkey (Study Abroad)
GLBL 160 Field Experience & Acad Research in GS	HIST 168 History of the Middle East (G-WI)	POLS 202 International Relations
GLBL 230 Global Studies Capstone	HIST 173 Mod European History, 1815 to Present (G-WI)	POLS 205 Women and Politics (G-WI)
HIST 103 Ancient and Medieval History	HIST 210 History of Mod Science, 1859 to Present	POLS 251 State and Local Government (G-WI)
HIST 113 American History I (G-WI)	HIST 211 History of Pennsylvania	SOCA 102 Cultural Anthropology (G-WI)
HIST 121 The Black Experience (G-WI)	INTS 201 Implementing Sustainable Energy System...	SOCA 105 American Ethnicity
HIST 123 African Civilization	INTS 202 The Architecture of the City: Classic to Contemp.	SOCA 160 Issues in Contemp.Genocide & Mass Violence