

# DIAGNOSTIC MEDICAL SONOGRAPHY, Associate in Applied Science Degree - 3426

Health & Public Service Department

The Diagnostic Medical Sonography AAS program prepares students as entry-level Diagnostic Medical Sonographers who perform general ultrasound imaging. Students acquire the knowledge and technical expertise required to produce ultrasound images of the human body that are then used by physicians to make medical diagnoses. This program is offered in cooperation with affiliated hospitals and medical imaging centers; the College provides classroom and lab instruction, while the hospitals and imaging centers provide the clinical instruction. The program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP), 25400 U.S. Highway 19 North, Suite 158, Clearwater FL 33756, (727) 210-2350, [www.caahep.org](http://www.caahep.org), upon the recommendation of the Joint Review Committee on Education in Diagnostic Medical Sonography (JRC-DMS), 6021 University Boulevard, Suite #500, Ellicott City, MD 21043, (443) 973-3251, [www.jrcdms.org](http://www.jrcdms.org). The complete program is only available at the Harrisburg Campus.

*Selective Program:* Entry into this program is not guaranteed with admission to the College; this is a selective and competitive admission program, specific admissions criteria must be met. **Students must be aware that even though the program begins in the Fall semester, coursework can be completed during the preceding Summer semester.** Please go to the Health Careers website ([www.hacc.edu/healthcareers](http://www.hacc.edu/healthcareers)), or email at [start@hacc.edu](mailto:start@hacc.edu) for specific program entry requirements

The following requirements must be completed (at the student's expense) after being selected for, but prior to starting the clinical portion of the program and after the first year in the program. Requirements include physical examination and immunizations, background checks, drug and alcohol screens and CPR certification. The student should consider these factors before enrolling. If the student has any questions regarding this, he or she should contact the program director.

## Career Opportunities

Graduates find employment as sonographers in hospital ultrasound departments and independent medical imaging centers.

## Competency Profile

This curriculum is designed to prepare students to:

- Perform as an entry-level general sonographer in the cognitive (knowledge), psychomotor (skills) and affective (behavior) learning domains
- Utilize oral and written communication to interact effectively with physicians, healthcare professionals, and patients
- Demonstrate quality patient care, sonographic exam process, and professionalism
- Demonstrate knowledge and understanding of anatomy, cross-sectional anatomy, physiology, pathology, and pathophysiology of the abdomen, superficial structures, non-cardiac chest, and the gravid and nongravid pelvis
- Demonstrate knowledge and understanding of acoustic physics, Doppler ultrasound and ultrasound instrumentation and the probability of biological effects
- Perform sonographic examinations of the abdomen, superficial structures, non-cardiac chest and the gravid and nongravid pelvis according to protocol guidelines utilizing real time equipment with both trans abdominal and endocavity transducers
- Recognize and identify the sonographic appearance of normal and abnormal processes of the abdomen, superficial structures, non-cardiac chest, and the gravid and nongravid pelvis

## PROGRAM REQUIREMENTS (TOTAL CREDITS = 69)

General Education	Major Requirements	Other Required Courses	
ENGL 101 English Composition I	3	DMS 105 Introduction to Health Care	4
COMM 101 Effective Speaking (or)	3	DMS 110 Introduction to DMS	4
COMM 203 Interpersonal Communication	(3)	DMS 115 Clinical Experience I	2
Humanities & Arts Electives	3	DMS 120 DMS Lab I	1
Math or Science Elective - MATH 103	3	DMS 125 Clinical Experience II	3
Social & Behavioral Science Elective	3	DMS 130 Abdominal Sonography	4
First-Year Seminar Elective	1	DMS 140 DMS Lab II	1
Wellness	<u>1</u>	DMS 150 OB/GYN Sonography I	3
	17	DMS 170 Acoustical Principles I	4
		DMS 180 High Resolution Sonography I	1
		DMS 182 High Resolution Sonography II	1
		DMS 210 Vascular Sonography I	1
		DMS 212 Vascular Sonography II	2
		DMS 215 Clinical Experience III	4
		DMS 220 DMS Lab III	1
		DMS 225 Clinical Experience IV	4
		DMS 250 OB/GYN Sonography II	3
		DMS 270 Acoustical Principles II	2
		DMS 274 DMS Topics	<u>1</u>
			46

Note: A grade of C or higher is required for all BIOL; DMS; MATH; and PHYS courses; ENGL 101 and COMM 101 or 203.

**RECOMMENDED SEQUENCE FOR FULL-TIME STUDENTS**

Part time students can complete this program by taking one or more courses each semester.

<b>Summer I</b>		<b>Fall Semester I</b>		<b>Spring Semester I</b>		<b>Summer II</b>		<b>Fall Semester II</b>		<b>Spring Semester II</b>	
BIOL 111	3	COMM 101 or 203	3	DMS 115	2	DMS 125	3	DMS 215	4	DMS 182	1
ENGL 101	3	DMS 105	4	DMS 120	1	DMS 140	1	DMS 220	1	DMS 212	2
MATH 103	3	DMS 110	4	DMS 130	4	DMS 180	1	DMS 250	3	DMS 225	4
		FYS Elective	1	DMS 150	3	DMS 210	1	DMS 270	2	DMS 274	1
		PHYS 161	3	DMS 170	4			Humanities/Arts Elective	3	Social/Behavioral Science Elective	3
										Wellness	1