

# Diagnostic Medical Sonography

## Associate of Science Degree Program

**Contact Hours:** 2,055

**Semester Credits:** 84.5

**Instructional Weeks – Full Time:** 80

**Average Time to Complete – Full Time:** 20 Months

## Program Overview

Diagnostic medical sonographers use special imaging equipment that directs sound waves into a patient's body (in a procedure commonly known as an ultrasound, sonogram, or echocardiogram) to assess and diagnose various medical conditions.

The Diagnostic Medical Sonography curriculum integrates didactic and clinical instruction with increasing expectations at each level. Clinical sites utilized by the program are geographically dispersed. Students may have to travel outside of the local area for clinical placements.

## Program Objectives

To prepare competent entry-level sonographers in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains for the following concentration(s) it offers:

- Abdominal sonography - Extended
- Obstetrics and gynecology sonography

Graduates of this program will develop skills to:

1. Be clinically competent to perform appropriate procedures and record anatomic, pathologic, and/or physiologic data;
2. Apply critical thinking and problem-solving skills to exercise discretion and judgment in performance of diagnostic sonography;
3. Demonstrate appropriate communication skills; and
4. Demonstrate professionalism and growth in the profession.

The program will continually monitor program effectiveness through assessment and evaluation to ensure that the needs of the community are met.

## Term 1

Course #	Course Title	Pre-Requisites	Co-Requisites	Theory Hours (Ground/Online)	Lab Hours (Ground/Online)	Clinical Hours (Ground/Online)	Semester Credit Hours
COMM1310 *	Elements of Human Communication			45 ( 0 / 45 )	0	0	3
MATH1320 *	College Algebra			45 ( 0 / 45 )	0	0	3
BIOL1405 *	Anatomy & Physiology			60 ( 0 / 60 )	0	0	4
BIOL1131 *	Anatomy & Physiology VLab			0	30 ( 0 / 30 )	0	1

**Total**                    **150 (0/150)**    **30 (0/30)**                    **0**                    **11**

## Term 2

Course #	Course Title	Pre-Requisites	Co-Requisites	Theory Hours (Ground/Online)	Lab Hours (Ground/Online)	Clinical Hours (Ground/Online)	Semester Credit Hours
HPRS1320 *	Foundations for Health Professionals			45 ( 0 / 45 )	0	0	3
PHYS1310 *	General Physics			45 ( 0 / 45 )	0	0	3
ENGL1310 *	English Composition I			45 ( 0 / 45 )	0	0	3
PSYC1310 *	General Psychology			45 ( 0 / 45 )	0	0	3
<b>Total</b>				<b>180 (0/180)</b>	<b>0</b>	<b>0</b>	<b>12</b>

## Term 3

Course #	Course Title	Pre-Requisites	Co-Requisites	Theory Hours (Ground/Online)	Lab Hours (Ground/Online)	Clinical Hours (Ground/Online)	Semester Credit Hours
DMSG1810	Physics and Instrumentatio n	HPRS1320 PHYS1310		120 ( 120 / 0 )	0	0	8
DMSG1210	Scanning Lab I	HPRS1320 PHYS1310		0	80 ( 80 / 0 )	0	2.5
DMSG1321	Sonographic Cross- Sectional Anatomy	HPRS1320 PHYS1310		45 ( 45 / 0 )	0	0	3
<b>Total</b>				<b>165 (165/0)</b>	<b>80 (80/0)</b>	<b>0</b>	<b>13.5</b>

## Term 4

Course #	Course Title	Pre-Requisites	Co-Requisites	Theory Hours (Ground/Online)	Lab Hours (Ground/Online)	Clinical Hours (Ground/Online)	Semester Credit Hours
DMSG1820	Abdominal Sonography	All Courses in Term 3		120 ( 120 / 0 )	0	0	8
DMSG1220	Scanning Lab II	All Courses in Term 3		0	80 ( 80 / 0 )	0	2.5
<b>Total</b>				<b>120 (120/0)</b>	<b>80 (80/0)</b>	<b>0</b>	<b>10.5</b>

## Term 5

Course #	Course Title	Pre-Requisites	Co-Requisites	Theory Hours (Ground/Online)	Lab Hours (Ground/Online)	Clinical Hours (Ground/Online)	Semester Credit Hours
DMSG2810	OB/GYN Sonography	All Courses in Term 4		120 ( 120 / 0 )	0	0	8
DMSG2210	Scanning Lab III	All Courses in Term 4		0	80 ( 80 / 0 )	0	2.5
<b>Total</b>				<b>120 (120/0)</b>	<b>80 (80/0)</b>	<b>0</b>	<b>10.5</b>

## Term 6

Course #	Course Title	Pre-Requisites	Co-Requisites	Theory Hours (Ground/Online)	Lab Hours (Ground/Online)	Clinical Hours (Ground/Online)	Semester Credit Hours
DMSG2710	Clinical Education I	All Courses in Term 5		0	0	320 ( 320 / 0 )	7

DMSG2230	General Vascular Sonography I	All Courses in Term 5		30 ( 30 / 0 )	0	0	2
<b>Total</b>				<b>30 (30/0)</b>	<b>0</b>	<b>320 (320/0)</b>	<b>9</b>

### Term 7

Course #	Course Title	Pre-Requisites	Co-Requisites	Theory Hours (Ground/Online)	Lab Hours (Ground/Online)	Clinical Hours (Ground/Online)	Semester Credit Hours
DMSG2720	Clinical Education II	All Courses in Term 6		0	0	320 ( 320 / 0 )	7
DMSG2240	General Vascular Sonography II	All Courses in Term 6		30 ( 30 / 0 )	0	0	2
<b>Total</b>				<b>30 (30/0)</b>	<b>0</b>	<b>320 (320/0)</b>	<b>9</b>

### Term 8

Course #	Course Title	Pre-Requisites	Co-Requisites	Theory Hours (Ground/Online)	Lab Hours (Ground/Online)	Clinical Hours (Ground/Online)	Semester Credit Hours
DMSG2220	Registry Review	All Courses in Term 7		30 ( 30 / 0 )	0	0	2
DMSG2730	Clinical Education III	All Courses in Term 7		0	0	320 ( 320 / 0 )	7
<b>Total</b>				<b>30 (30/0)</b>	<b>0</b>	<b>320 (320/0)</b>	<b>9</b>
<b>Subtotal</b>				<b>825 (495/330)</b>	<b>270 (240/30)</b>	<b>84.5</b>	