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 Delivery

The Diagnostic Medical Sonography program is delivered in a blended format. Courses will be delivered entirely online, entirely on-ground or with an appropriate blend of both online and on-ground hours in the same course. Of the 2,055 program hours, a maximum of 680 course hours (33.1%) may be offered online (including general education courses). Campuses may have the option to deliver general education courses either online or on-ground depending on local need and availability specific time, regardless of their eligibility status upon enrollment.

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
			Subtotal	**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
PHYS1311 *	Introductory 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
			Subtotal	**180 (0/180)**	**0**	**0**	**12**

Term 3

Course #	Course Title	Pre-Requisites	Co-Requisites	Theory Hours (Ground/Online)	Lab Hours (Ground/Online)	Clinical Hours (Ground/Online)	Semester Credit Hours
DMSG1210	Scanning Lab I	HPRS1320 PHYS1310		0	80 (65 / 15)	0	2.5
DMSG1321	Sonographic Cross-Sectional Anatomy	HPRS1320 PHYS1310		45 (20 / 25)	0	0	3
DMSG1810	Physics and Instrumentation	HPRS1320 PHYS1310		120 (60 / 60)	0	0	8
			Subtotal	**165 (80/85)**	**80 (65/15)**	**0**	**13.5**

Term 4

Course #	Course Title	Pre-Requisites	Co-Requisites	Theory Hours (Ground/Online)	Lab Hours (Ground/Online)	Clinical Hours (Ground/Online)	Semester Credit Hours
DMSG1220	Scanning Lab II	DMSG1210 DMSG1321 DMSG1810		0	80 (70 / 10)	0	2.5
DMSG1820	Abdominal Sonography	DMSG1210 DMSG1321 DMSG1810		120 (30 / 90)	0	0	8
			Subtotal	**120 (30/90)**	**80 (70/10)**	**0**	**10.5**

Term 5

Course #	Course Title	Pre-Requisites	Co-Requisites	Theory Hours (Ground/Online)	Lab Hours (Ground/Online)	Clinical Hours (Ground/Online)	Semester Credit Hours
DMSG2210	Scanning Lab III	DMSG1220 DMSG1820		0	80 (70 / 10)	0	2.5
DMSG2810	OB/GYN Sonography	DMSG1220 DMSG1820		120 (30 / 90)	0	0	8
			Subtotal	**120 (30/90)**	**80 (70/10)**	**0**	**10.5**

Term 6

Course #	Course Title	Pre-Requisites	Co-Requisites	Theory Hours (Ground/Online)	Lab Hours (Ground/Online)	Clinical Hours (Ground/Online)	Semester Credit Hours
DMSG2230	General Vascular Sonography I	DMSG2210 DMSG2810		30 (30 / 0)	0	0	2
DMSG2710	Clinical Education I	DMSG2210 DMSG2810		0	0	320 (320 / 0)	7
			Subtotal	**30 (30/0)**	**0**	**320 (320/0)**	**9**

Term 7

Course #	Course Title	Pre-Requisites	Co-Requisites	Theory Hours (Ground/Online)	Lab Hours (Ground/Online)	Clinical Hours (Ground/Online)	Semester Credit Hours
DMSG2240	General Vascular Sonography II	DMSG2230 DMSG2710		30 (10 / 20)	0	0	2
DMSG2720	Clinical Education II	DMSG2230 DMSG2710		0	0	320 (320 / 0)	7
			Subtotal	**30 (10/20)**	**0**	**320 (320/0)**	**9**

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	DMSG2240 DMSG2720		30 (30 / 0)	0	0	2
DMSG2730	Clinical Education III	DMSG2240 DMSG2720		0	0	320 (320 / 0)	7
			Subtotal	**30 (30/0)**	**0**	**320 (320/0)**	**9**
			Total	**825 (210/615)**	**270 (205/65)**	**960 (960/0)**	**84.5**

**For students who start on or after September 18, 2023, this course will change from PHYS1310 to PHYS1311*

General education courses (those with prefixes other than DMSG) may be scheduled in any term providing that prerequisites are honored. In addition, these courses may be offered 100% online or 100% on ground