

LANSING COMMUNITY COLLEGE

CURRICULUM GUIDE

Diagnostic Medical Sonography
Associate in Applied Science Degree

Curriculum Code: 0790 (Effective Summer 2016– Summer 2018)

A Diagnostic Medical Sonographer provides patient services in a variety of medical settings using medical ultrasound under the supervision of a physician. Sonographers assist the physician in gathering sonographic data necessary to diagnose a variety of conditions and diseases. Sonographers obtain, review, and integrate patient history and supporting clinical data to facilitate optimum diagnostic results. They perform appropriate procedures and record anatomical, pathological, and/or physiological data as well as sonographic data and other pertinent observations made during the procedure for interpretation by a physician. They provide patient education related to medical ultrasound and promote principles of good health.

The D.M.S. curriculum is an integrated six semester program that incorporates didactic and clinical training designed to prepare the student for employment in the field of diagnostic medical sonography. The program is aligned with the standards and guidelines of the Joint Review Commission on Diagnostic Medical Sonography and is accredited by the Commission on Accreditation of Allied Health Education Programs (JRCDS–CAAHEP), 1361 Park Street, Clearwater, FL 33756. Graduates of the program are prepared for either the examination by the American Registry of Diagnostic Medical Sonographers (ARDMS) or the American Registry of Radiologic Technologists (ARRT). The associate degree option is for students with no previous background in an allied health field as well as for allied health professionals who have completed the certificate of achievement and who wish to complete additional course work toward this degree.

This is a selective admission program. In order to be considered as a candidate for this program, students must meet basic admission requirements beyond those required for admission to the college. Many of the courses for this program are open only to students officially admitted to the Diagnostic Medical Sonography Program.

PREREQUISITES

Students should see [Course Descriptions](#) for course prerequisite information. See [Academic Assessment and Placement Testing for Student Success](#) for skills assessment and advising information. Students successfully completing prerequisites for admission to the Diagnostic Medical Sonography Program will have at a minimum a Reading Level 5, a Writing Level 6, and a Math Level 6.

INFORMATION

The admission and/or graduation requirements for this program may change each academic year. **The program requirements below apply only to those students who have been admitted to the program for the 2016/2017 academic year.** For the most recent and complete information, interested students should contact the Medical Imaging Programs, Health and Human Services Building, Room 108, telephone number (517) 483–1410 (Website: www.lcc.edu/hhs/programs/sonography/).

REQUIREMENTS FOR ADMISSION TO THE DIAGNOSTIC MEDICAL SONOGRAPHY PROGRAM

For current information about admission requirements, students must contact the Medical Imaging Programs, Health and Human Services Building, Room 108, telephone number (517) 483–1410.

REQUIREMENTS (See Note 1)		TOTAL: 61 CREDITS
CODE	TITLE	CREDIT HOURS
BIOL 145	Intro Anatomy and Physiology (See Note 2)	4
CHSE 120	Medical Terminology	4
IDMS 169	Intro to Sonographic Scanning	2
IDMS 200	Sonographic Introduction	2
IDMS 201	General Sonography I: Abdomen	4
IDMS 202	OB/GYN Sonography I	4
IDMS 234	Sonographic Physics	2
IDMS 245	Sonographic Instrumentation	2
IDMS 265	General Sonography II	4
IDMS 266	OB/GYN Sonography II	4
IDMS 270	Sonographic Positioning I	2.5
IDMS 271	Sonographic Positioning II	1.5
IDMS 280	Clinical Experience I	6
IDMS 281	Clinical Experience II	7
IDMS 282	Clinical Experience III	8
PHYS 120	The Art of Physics (See Note 3)	4

LIMITED CHOICE REQUIREMENTS **TOTAL: 13-16 CREDITS**
 Complete the indicated number of credits from **EACH CHOICE** listed below.

CHOICE 1: General Education Core Areas	13-16 Credits
(Click the link above for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)	
Communication Core Area	3-4
Global Perspectives and Diversity Core Area	3-4
Mathematics Core Area (See Note 4)	4
Science Core Area (See Note 5)	0
Writing Core Area	3-4
MINIMUM TOTAL	74

NOTES:

1. A 2.5 minimum grade is required in all courses in this curriculum, including Core, with the exception of PHYS 120 or PHYS 200 which require a minimum 2.0 grade.
2. BIOL 201 and BIOL 202 may be substituted for BIOL 145.
3. PHYS 200 may be substituted for PHYS 120. Students with prior physics education should consult with a D.M.S. program advisor before enrolling in a physics course.
4. Students completing Phase I requirements for admission to the Diagnostic Medical Sonography Program have fulfilled the Math Core requirement by completing MATH 120 or higher or STAT 170 or STAT 215 with a minimum grade of 2.5.
5. Students completing "REQUIREMENTS" have fulfilled the requirements for the Science Core area.
6. Current Basic Cardiac Support Certification (BLS) is required throughout the program (NCHE 102 or NCHE 103 or American Heart Association/Health Care Provider or American Red Cross/Professional Rescuer).

SUGGESTED COURSE SEQUENCE

It is recommended, but not required, that students complete their General Education Core courses in Semesters I & II prior to admission to the Diagnostic Medical Sonography program. The following courses must be completed prior to admission to the D.M.S. Program as part of the Phase I requirements for admission: BIOL 145, MATH 120 or higher or STAT 170 or STAT 215, and PHYS 120. IDMS courses are offered once a year in the sequence below. Students are admitted to the program in the spring and will be assigned to begin Semester III in the summer semester.

I	II	III-Summer 2016
BIOL 145	PHYS 120	CHSE 120
MATH 120 (or higher)	Lim.Ch.	IDMS 169
Lim.Ch.	Lim.Ch.	IDMS 200
		IDMS 270
IV-Fall 2016	V-Spring 2017	VI-Summer 2017
IDMS 201	IDMS 245	IDMS 282
IDMS 202	IDMS 265	
IDMS 234	IDMS 266	
IDMS 271	IDMS 281	
IDMS 280		