

LANSING COMMUNITY COLLEGE

Health & Public Services

Curriculum Code: 0790  
(Effective Summer 2018 –  
Summer 2020)

**Ultrasound: Diagnostic Medical Sonography A.A.S.  
Pathway**

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 open to students with no previous background in an allied health field.

**Admission Requirements**

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. The following courses in Semesters I and II must be completed by December 31 of the year prior to the April 1 D.M.S. Program admission application deadline: BIOL 145 or BIOL 201 and BIOL 202; MATH 120 or higher (or STAT 170 or STAT 215); and PHYS 120 or PHYS 200. All Core Area requirements must also be completed prior to the start of the program including Communication Core, Writing Core, and Global Perspectives and Diversity Core.

**Note:**

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.

**For More 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 2018/2019 academic year. For the most current and complete information, interested students should contact the Diagnostic Medical Sonography program, Health and Human Services Building, Room 108, telephone number (517) 483-1410, or the Academic Advising Department, Gannon Building – StarZone, telephone number (517) 483-1904.

Semesters I and II: To be determined by student	Course Title	Prerequisites	Credit/Billing Hours
<b>Program of Study Requirement for Admission - <i>Select either the A course or the B courses</i></b> <i>This selection also satisfies the Science Core Area.</i>			
BIOL 145 <b>A</b>	Intro Anatomy and Physiology	Reading Level 5 and Writing Level 6 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	4 / 6
BIOL 201 <b>B</b>	Human Anatomy	Reading Level 5 and Writing Level 6 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	4 / 6
BIOL 202 <b>B</b>	Human Physiology	Minimum 2.0 in BIOL 201 or concurrently and Reading Level 5 and Writing Level 6 and (Math Level 5 or minimum 2.0 in MATH 109 or STAT 170 or concurrent enrollment in MATH 119)	4 / 5
<b>Program of Study Requirement for Admission - <i>Select 1</i></b> <i>This selection satisfies the Math Core Area requirement. A MATH course higher than 120 may also be selected.</i>			
MATH 120	College Algebra	(Minimum 2.0 in MATH 109 or MATH 112 within 2 years or Math Level 6 within 2 years) and Reading Level 5 and Writing Level 4	4 / 4
STAT 170	Introduction to Statistics	Reading Level 5 and Writing Level 4 and Minimum 2.0 in MATH 105 or MATH 106 or above or Math Level 5	4 / 4
STAT 215	Intro to Probability and Stats	Reading Level 5 and Writing Level 4 and Minimum 2.0 in MATH 120 or above or Math Level 7	4 / 4
<b>Program of Study Requirement for Admission - <i>Select 1</i></b> <i>Students may substitute any Physics course of at least 3 credits.</i>			
PHYS 120	The Art of Physics	Reading Level 5 and Writing Level 6 and (Math Level 5 or MATH 107 concurrently or MATH 109 concurrently)	4 / 5
PHYS 200	Intro to Applied Physics	Reading Level 5 and Writing Level 6 and (Math Level 5 or MATH 109 concurrently)	4 / 5

<b>Communication Core Area - <i>Select 1</i></b>			
COMM 110	Oral Comm in the Workplace	Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently)	3 / 3
COMM 120	Dynamics of Communication	Reading Level 5 and Writing Level 6	3 / 3
COMM 130	Fund of Public Speaking	Reading Level 5 and Writing Level 6	3 / 3
<b>Writing Core Area - <i>Select 1</i></b>			
ENGL 121	Composition I	Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently)	4 / 4
ENGL 122	Composition II	Minimum 2.0 in ENGL 121 (formerly WRIT 121) or ENGL 131 (formerly WRIT 131) or (Reading Level 5 and Writing Level 8)	4 / 4
ENGL 127	Business Writing	Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently)	3 / 3
ENGL 131	Honors Composition I	Reading Level 5 and Writing Level 7	4 / 4
<b>Global Perspectives and Diversity Core Area - <i>Select 1</i></b>			
SOCL 120	Introduction to Sociology	Reading Level 5 or (Reading Level 4 and ENGL 099 concurrently)	4 / 4
<b>Credits</b>			<b>22-27 / 25-31</b>

<b>Semester III Summer 2018</b>	<b>Course Title</b>	<b>Prerequisites</b>	<b>Credit/Billing Hours</b>
<b>Program of Study Requirements</b>			
CHSE 120	Medical Terminology	Reading Level 5 and Writing Level 4	4 / 4
IDMS 169	Intro to Sonographic Scanning	Admission to Diagnostic Medical Sonography Program and Reading Level 5 and Writing Level 6	2 / 3
IDMS 200	Sonographic Introduction	Admission to Diagnostic Medical Sonography Program and Reading Level 5 and Writing Level 6	2 / 2
IDMS 270	Sonographic Positioning I	Admission to Diagnostic Medical Sonography Program and Reading Level 5 and Writing Level 6	2.5 / 4
<b>Credits</b>			<b>10.5 / 13</b>
<b>Semester IV Fall 2018</b>	<b>Course Title</b>	<b>Prerequisites</b>	<b>Credit/Billing Hours</b>
<b>Program of Study Requirements</b>			
IDMS 201	General Sonography I: Abdomen	Minimum 2.5 in (IDMS 169 and IDMS 200 and IDMS 270)	4 / 4
IDMS 202	OB/GYN Sonography I	Minimum 2.5 in (IDMS 169 and IDMS 200 and IDMS 270)	4 / 4
IDMS 234	Sonographic Physics	Minimum 2.5 in (IDMS 169 and IDMS 200 and IDMS 270)	2 / 2
IDMS 271	Sonographic Positioning II	Minimum 2.5 in IDMS 270	1.5 / 2
IDMS 280	Clinical Experience I	Minimum 2.5 in (IDMS 169 and IDMS 200 and IDMS 270)	6 / 6
<b>Credits</b>			<b>17.5 / 18</b>
<b>Semester V Spring 2019</b>	<b>Course Title</b>	<b>Prerequisites</b>	<b>Credit/Billing Hours</b>
<b>Program of Study Requirements</b>			
IDMS 245	Sonographic Instrumentation	Minimum 2.5 in IDMS 234	2 / 2
IDMS 265	General Sonography II	Minimum 2.5 in IDMS 201	4 / 4
IDMS 266	OB/GYN Sonography II	Minimum 2.5 in IDMS 202	4 / 4
IDMS 281	Clinical Experience II	Minimum 2.5 in IDMS 280	7 / 7
<b>Credits</b>			<b>17 / 17</b>

Semester VI Summer 2019	Course Title	Prerequisites	Credit/Billing Hours
<b>Program of Study Requirements</b>			
IDMS 282	Clinical Experience III	Minimum 2.5 in (IDMS 234 and IDMS 245 and IDMS 265 and IDMS 266)	8 / 8
<b>Credits</b>			<b>8 / 8</b>
<b>Total Credits</b>			<b>75-80 / 81-87</b>