

## LANSING COMMUNITY COLLEGE

### CURRICULUM GUIDE

Diagnostic Medical Sonography  
Associate in Applied Science Degree

Curriculum Code: 0790 (Effective Summer 2014– Summer 2016)

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 the Commission on Accreditation of Allied Health Education Programs (JRCDSM–CAAHEP). 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.

#### 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 2014/2015 academic year.** For the most recent and complete information, interested students should contact the Admissions Office, Gannon Building, Room 203, telephone number (517) 483–1254 or the Medical Imaging Programs, Health and Human Services Building, Room 108, telephone number (517) 483–1410 (Website: [www.lcc.edu/health/](http://www.lcc.edu/health/)).

#### REQUIREMENTS FOR ADMISSION TO THE DIAGNOSTIC MEDICAL SONOGRAPHY PROGRAM

For current information about admission requirements, students must contact the Admissions Office, Gannon Building, Room 203, telephone number (517) 483–1254.

| <b>REQUIREMENTS</b> |   | <b>TOTAL: 60 CREDITS</b> |
|---------------------|---|--------------------------|
| <b>CODE</b>         | <b>TITLE</b>                              | <b>CREDIT HOURS</b>      |
| BIOL 145            | Intro Anatomy and Physiology (See Note 1) | 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                        |
| IDMS 271            | Sonographic Positioning II                | 1                        |
| 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 2)           | 4                        |

#### **LIMITED CHOICE REQUIREMENTS**

**TOTAL: 9–12 CREDITS**

Complete the indicated number of credits from **EACH CHOICE** listed below.

#### **CHOICE 1: [General Education Core Areas](#)**

**9–12 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 3)          | 0   |
| Science Core Area (See Note 4)              | 0   |
| Writing Core Area                           | 3–4 |

#### **MINIMUM TOTAL**

**69**

#### **NOTES:**

1. BIOL 201 and BIOL 202 may be substituted for BIOL 145.
2. 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.
3. Students completing Phase I requirements for admission to the Diagnostic Medical Sonography program have fulfilled the requirements for this Core area.
4. Students completing "REQUIREMENTS" have fulfilled the requirements for this Core area.
5. 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. BIOL 145 and PHYS 120 must be completed prior to admission to the D.M.S. Program as part of the Phase I requirements for admission. MATH 112 is also required for admission to the program and may be waived by successfully passing a proficiency exam. IDMS courses are offered once a year in the following sequence. Students are admitted to the program in the spring and will be assigned to begin Semester III in the summer semester.

| <b>I</b>                     | <b>II</b>         | <b>III (Summer)</b> |
|------------------------------|-------------------|---------------------|
| BIOL 145                     | PHYS 120          | CHSE 120            |
| MATH 112 (or<br>Proficiency) | Lim.Ch.           | IDMS 169            |
| Lim.Ch.                      | Lim.Ch.           | IDMS 200            |
|                              |                   | IDMS 270            |
| <b>IV (Fall)</b>             | <b>V (Spring)</b> | <b>VI (Summer)</b>  |
| IDMS 201                     | IDMS 245          | IDMS 282            |
| IDMS 202                     | IDMS 265          |                     |
| IDMS 234                     | IDMS 266          |                     |
| IDMS 271                     | IDMS 281          |                     |
| IDMS 280                     |                   |                     |