



Ultrasound: Diagnostic Medical Sonography A.A.S.

Career Community: Health and Human Service Careers

Curriculum Code: 0790

Effective: Summer 2024 – Summer 2026

Description

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.

Milestone

In addition to the required General Education courses in Math and English, completion of IDMS 201 and IDMS 234 with a 2.5 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

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 (JRCADMS-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).

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. All the courses in Semesters I and II are required for admission and must be completed by December 31st of the year prior to the April 1st D.M.S. Program admission application deadline. This includes: BIOL 145 or BIOL 201 and BIOL 202; MATH 120 (or higher) or STAT 170 or STAT 215; PHYS 120 or PHYS 200; and the General Education requirements including English Composition or Applied English, English Composition (second course)/Communications or Applied Communications, and Humanities and Fine Arts or Social Sciences or Applied Social Sciences requirements.

A 2.5 minimum grade is required in all courses in this curriculum, including the General Education requirements, with the exception of PHYS 120 or PHYS 200 which requires a minimum 2.0 grade.

Contact 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 2024/2025 academic year. For further information, including about career options, admission requirements, course substitutions and waivers, etc., 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.

General Education – Applied Degrees, Recommended Courses

(For the full list of options, see [General Education](#))

- English Composition or Applied English – *Select one. This requirement can be waived with proof of an earned associate degree (or higher) from an accredited college or university.*
ENGL 121, Composition I, 4 credits / 4 billing hours
ENGL 122, Composition II, 4 credits / 4 billing hours
ENGL 127, Business Writing, 3 credits / 3 billing hours
ENGL 131, Honors Composition I, 4 credits / 4 billing hours
ENGL 132, Honors Composition II, 4 credits / 4 billing hours
- English Composition (second course)/Communications or Applied Communications Program of Study Required Courses for Admission will meet this requirement
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences – *Select one. This requirement can be waived with proof of an earned associate degree (or higher) from an accredited college or university.*
SOCL 120, Introduction to Sociology, 4 credits / 4 billing hours
- Mathematics or Applied Mathematics
Program of Study Required Courses for Admission will meet this requirement
- Natural Sciences Lab or Applied Science and Technology Lab
Program of Study Required Courses for Admission will meet this requirement

Program of Study Required Course for Admission, Limited Choice – English Composition (second course)/Communication

–*Select one. This course will satisfy the General Education English Composition (second course)/Communication or Applied Communication requirement. This requirement can be waived with proof of an earned associate degree (or higher) from an accredited college or university.*

Course Code	Course Title	Credit / Billing Hours
COMM 110	Communication in the Workplace	3 / 3
COMM 120	Dynamics of Communication	3 / 3
COMM 130	Fundamentals Public Speaking	3 / 3
COMM 240	Interpersonal Communication	3 / 3
SIGN 160	Intro to the Deaf Community	3 / 3

Program of Study Required Course for Admission, Limited Choice - Mathematics

– *Select one. This course will satisfy the General Education Mathematics or Applied Mathematics requirement. (Any course from the College Algebra area of the General Education Mathematics category may also be selected.)*

Course Code	Course Title	Credit / Billing Hours
MATH 120	College Algebra	4 / 4
STAT 170	Introduction to Statistics	4 / 4
STAT 215	Intro to Probability and Stats	4 / 4

Program of Study Required Course for Admission, Limited Choice – Natural Sciences Lab

–*Select BIOL 145 or, BIOL 201 and BIOL 202. This course will satisfy the General Education Natural Sciences Lab or Applied Science and Technology Lab requirement.*

Course Code	Course Title	Credit / Billing Hours
BIOL 145	Intro Anatomy and Physiology	4 / 6
BIOL 201 and 202	Human Anatomy and Human Physiology	8 / 11 (total)

Program of Study Required Course for Admission, Limited Choice –*Select one*

Course Code	Course Title	Credit / Billing Hours
PHYS 120	The Art of Physics	4 / 5
PHYS 200	Intro to Applied Physics	4 / 5

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
CHSE 120	Medical Terminology	4 / 4
IDMS 170	Intro to Ultrasound Knobology	2 / 3
IDMS 200	Sonographic Introduction	2 / 2
IDMS 201	General Sonography I: Abdomen	4 / 4
IDMS 202	OB/GYN Sonography I	4 / 4
IDMS 234	Sonographic Physics	2 / 2

Course Code	Course Title	Credit/ Billing Hours
IDMS 245	Sonographic Instrumentation	2 / 2
IDMS 265	General Sonography II	4 / 4
IDMS 266	OB/GYN Sonography II	4 / 4
IDMS 270	Sonographic Positioning I	2.5 / 4
IDMS 271	Sonographic Positioning II	1.5 / 2
IDMS 280	Clinical Experience I	6 / 6
IDMS 281	Clinical Experience II	8 / 8
IDMS 282	Clinical Experience III	7.5 / 7.5

Minimum Total Credit Hours

75.5 credits / 81.5 billing hours

Recommended Course Sequence

Semester I (Fall)
Gen Ed – English Composition or Applied English
Program of Study Required Course for Admission – Mathematics
BIOL 145 or (BIOL 201 and BIOL 202)

Semester II (Spring)
Gen Ed – Humanities and Fine Arts or Social Sciences or Applied Social Sciences
COMM 110, 120, 130, 240, or SIGN 160
PHYS 120 or PHYS 200

Semester III (Summer)
CHSE 120
IDMS 170
IDMS 200
IDMS 270

Semester IV (Fall)
IDMS 201 – Milestone course
IDMS 202
IDMS 234 – Milestone course
IDMS 271
IDMS 280

Semester V (Spring)
IDMS 245
IDMS 265
IDMS 266
IDMS 281

Semester VI (Summer)

IDMS 282

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree title changes, and make course changes as needed, without prior notice.