



Ultrasound: Diagnostic Medical Sonography A.A.S.

Curriculum Code: 0790

Effective: Summer 2020 – Summer 2022

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.

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 (JRCDEMS-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.

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 require 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 2020/2021 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.

General Education – Applied Degrees, Recommended Choices

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

- English Composition – *Select one*
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
- 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*
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 – English Composition (second course)/Communications – *Select one. This course will satisfy the English Composition (second course)/Communications or Applied Communications General Education requirement.*

| 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 |
| SIGN 160 | Intro to the Deaf Community | 3 / 3 |

Program of Study Required Course for Admission - Mathematics – *Select one. This course will satisfy the Mathematics or Applied Mathematics General Education requirement. (A MATH course higher than 120 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 – Natural Sciences Lab – *Select one. This course will satisfy the Natural Sciences Lab or Applied Science and Technology Lab General Education 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 – *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 169 | Intro to Sonographic Scanning | 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 |
| 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 | 7 / 7 |
| IDMS 282 | Clinical Experience III | 8 / 8 |

Total Credit Hours

75-80 credits / 81-87 billing hours

Recommended Course Sequence

| Semester I (Fall) | Semester II (Spring) |
|---|--|
| Program of Study Required Course for Admission - Mathematics BIOL 145 or (BIOL 201 and BIOL 202) PHYS 120 or PHYS 200 | Gen Ed – English Composition Gen Ed – Humanities and Fine Arts or Social Sciences or Applied Social Sciences COMM 110, 120, 130, or SIGN 160 |
| Semester III (Summer) | Semester IV (Fall) |
| CHSE 120 IDMS 169 IDMS 200 IDMS 270 | IDMS 201 IDMS 202 IDMS 234 IDMS 271 IDMS 280 |
| Semester V (Spring) | Semester VI (Summer) |
| IDMS 245 IDMS 265 IDMS 266 IDMS 281 | IDMS 282 |