

DIAGNOSTIC MEDICAL SONOGRAPHY



Diagnostic Medical Sonography

Diagnostic Medical Sonography (DMS) is a highly-skilled profession which uses specialized equipment to create images of structures inside the human body used by physicians to make medical diagnoses. Sonographers have extensive, direct patient contact that may include performing some invasive procedures. They must be able to interact compassionately and effectively with people who range from healthy to critically ill.

Sectional anatomy, ultrasonic instrumentation and imaging are the major components in this program. Skills are developed through clinical experiences using diagnostic imagery equipment. The courses focus on abdominal, obstetrics, gynecology, and vascular technology imaging. Students will acquire proficiency in scanning labs.

Students who complete the DMS program and pass national credentialing exams may seek entry-level employment in various clinical and hospital settings.

Job Outlook

Diagnostic Medical Sonography has been identified as a faster than average employment growth industry by the U.S. Department of Labor, with the need for sonographers expected to grow 18 percent between 2008 and 2018. The typical average salary for credentialed sonographers is \$25/hour.

Sonographers may advance their career by obtaining competency in multiple specialty areas. For example, abdominal sonographers may train in obstetrics to broaden their opportunities and increase their marketability. Sonographers may seek credentials in various specialties including: abdominal, obstetrics and gynecology, and vascular technology.

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One Community College Drive | Hazard, KY 41701 | (606) 436-5721 | hazard.kctcs.edu



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KENTUCKY COMMUNITY AND TECHNICAL COLLEGE SYSTEM

DIAGNOSTIC MEDICAL SONOGRAPHY

ASSOCIATE IN APPLIED SCIENCE

DIAGNOSTIC MEDICAL SONOGRAPHY PROGRAM CURRICULUM

| General Education | Credits |
|---|---------|
| MT 150/MAT 150 College Algebra..... | 3 |
| ENG 101 Writing I | 3 |
| Heritage/Humanities/Foreign Language Course | 3 |
| Social/Behavioral Sciences | 3 |
| BIO 137 Human Anatomy & Physiology I AND..... | 4 |
| BIO 139 Human Anatomy & Physiology II..... | 4 |
| PHY 151 Introductory Physics I OR | 3 |
| PHY 152 Introductory Physics II OR | (3) |
| PHY 171 Applied Physics..... | (4) |
| Subtotal | 19-24 |

Support Course

| | |
|----------------------------------|---|
| AHS 120 Medical Terminology..... | 1 |
|----------------------------------|---|

NOTE: All general education courses and the support course listed above are considered prerequisite to enroll in the first DMS course with a grade of "C" or greater.

DMS Program Requirements

| | |
|---|-------|
| DMS 109 Sonography I | 7 |
| DMS 119 Ultrasonic Physics and Instrumentation..... | 6 |
| DMS 126 Clinical Education I | 3-4 |
| DMS 115 Sonography II | 6 |
| DMS 230 Clinical Education II | 5-8 |
| DMS 199 Ultrasound Physics Online Review and/or | 1 |
| DMS 201 Online Abdomen Review and/or..... | (1) |
| DMS 202 Online OB/GYN Review | (1) |
| DMS 240 Clinical Education III | 5-8 |
| DMS 255 Vascular Technology..... | 6 |
| DMS 260 Vascular Clinical Education..... | 6 |
| Total Credits | 69-76 |

**Digital literacy competency as defined by KCTCS is required prior to enrolling in the first DMS course.*

**CPR certification for healthcare professionals is required prior to enrolling in DMS 109 and is required to be kept current throughout the program.*

**Applicants who are not graduates of a two-year accredited Allied Health program or who have a minimum of an Associate of Applied Science degree in a clinically related field must complete NAA 100, Nursing Assistant Skills I, in order to be considered for the program.*

APPLICATION PROCESS

In order to be considered for admission to the Diagnostic Medical Sonography program, the following credentials must be on file in the Records Office **prior to October 1, 2018**, for the Spring 2019 class in order to be considered by the committee.

1. Application for admission to college
2. Transcripts of all post-secondary education or training
3. Results of the ACT composite score report
4. Documentation denoting completion of NAA 100, with a grade of C or greater or a graduate of a two-year accredited Allied Health program
5. Documentation denoting completion of each DMS prerequisite courses, with a grade of C or greater.
6. Pre-admission conference with the Director or designee is required prior to admission to the DMS program

All students are responsible for verifying their file is complete prior to the admission deadline. If your file is not complete by the designated deadline, you will not be considered as an applicant for the DMS Program.

CRITERIA FOR ADMISSION

Admission to the Diagnostic Medical Sonography program is open to all qualified students, regardless of economic or social status, and without discrimination on the basis of race, color, religion, sex, marital status, age, national origin, or handicap. Admission is granted to applicants with the highest index points. Preference may be given to the following:

1. Applicants with an ACT composite score of 21 or higher
2. Applicants who have a cumulative GPA of 2.5 or better (4-point scale) in 10 hours of college credits applicable to the DMS program
3. Applicants who have graduated or who are in their final semester of a two-year accredited Allied Health program or have the minimum of an Associate of Applied Science degree in a clinically-related field

ACCREDITATION

The Hazard Community and Technical College Diagnostic Medical Sonography program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP), 25400 US Highway 19 N., Suite 158, Clearwater, FL 33763; Telephone: (727) 210-2350; Fax: (727) 210-2354; E-mail: mail@caahep.org; Website: <http://www.caahep.org>.

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