

Diagnostic Medical Sonography



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Cardiovascular Concentration

Diagnostic Medical Sonography (DMS) is a field of allied health that uses high frequency sound waves to create an image. The sonographer gathers related health information and produces images that are used by physicians to render a medical diagnosis. The program includes both didactic and clinical instruction in the specialties of cardiac and vascular sonography. The clinical course includes demonstration of the use of sonographic equipment and the opportunity to participate, under close supervision, in actual sonographic procedures.

The University of Rio Grande/Rio Grande Community College (Rio Grande) offers two associate's degrees and a bachelor's degree in Diagnostic Medical Sonography. This program will prepare the graduate to sit for the national registry examinations through the American Registry of Diagnostic Medical Sonographers (ARDMS).

The associate degree program involves general coursework, concentrated sonography classes, and clinical rotations. Approximately thirty (30) hours of general education courses are required including PHY 10404 and AHC 10202. DMS major core courses include six (6) hours each of cardiac sonography and vascular sonography, six (6) hours of ultrasound specific physics, and ten (10) hours of clinical rotations.

Space in the DMS program is limited due to availability of clinical sites. There will be an interview process, and the top students will be accepted into the program. For a complete copy of the admission policies and procedures, please contact the DMS program director.

Admission Requirements

- Meet all Rio Grande admission requirements and submit a supplementary application for the Diagnostic Medical Sonography Program.
- Students must take the University Placement Test once accepted to Rio Grande.
- All application forms, supplementary application forms, high school transcripts and/or college transcripts, and ACT scores must be received by Dr. Stephanie Wells-Mullins, Program Director, by April 1 each year, to be considered for admission starting fall term.
- Supplementary applications are good for only one year. You must reapply each year. After students are chosen for the next academic year, all supplementary applications will be discarded.



* Program approved by
Ohio Board of Regents

* Program accredited through the
Commission on Accreditation of
Allied Health Education Programs
(CAAHEP) www.caahep.org

Diagnostic Medical Sonography-Cardiovascular Concentration

First Year

Fall

AHC 10202	Standards of Patient Care
AHC 13303	Medical Terminology I
BIO 11204	Essentials of Anatomy & Physiology (preferred) OR
BIO 10104	Principles of Anatomy & Physiology I
LA 10001	Gateway to Success
PHY 10404	Principles of Physics

Spring

AHC 22403	Pharmacology & The Human Body
MTH 21404	Intro to Probability & Statistics
DMS 20103	Principles of Cardiovascular Sonography
DMS 24003	Echocardiography I
DMS 28003	Vascular Sonography I

Summer

DMS 24504	Cardiovascular Practicum I
PHR 21403	Medical Ethics

Second Year

Fall

ENG 11103	Composition I
DMS 21003	Physics and Instrumentation I
DMS 23301	Cardiovascular Seminar I
DMS 25003	Echocardiography II
DMS 25503	Cardiovascular Practicum II
DMS 29003	Vascular Sonography II

Spring

PSY 11103	General Psychology
DMS 22003	Physics and Instrumentation II
DMS 24301	Cardiovascular Seminar II
DMS 24601	Cardiovascular Registry Review
DMS 26001	Pediatric Echocardiography
DMS 26503	Cardiovascular Practicum III
DMS 28801	Selected Topics in DMS - Basic EKG

Total AAS Program Credits: 66

* Prerequisite course for all Allied Health majors. Not included in curriculum totals. (Not required of students accepted into DMS program.)

The clinical education courses will be conducted at a variety of hospitals, clinics, and diagnostic centers within approximately a 75-mile radius of the University. Students are responsible for their own transportation to and from the various clinical education sites. The clinical education courses will be scheduled for day shifts, 3 to 4 days/wk. This will provide the student an understanding of the diversity of the medical sonography field.

Academic Requirements

- High school or college cumulative grade point average (GPA) of 2.5 or higher. High school and College Credit Plus seniors may apply without attending a year of college first. All applicants must have completed high school before admission into the program. All other College Credit Plus students are ineligible.
- Recent graduate of high school (in last 5 years or less), you are required to take the ACT test and pass it with a composite score of 20 or higher; math and science scores of 19 preferred, but not required.
- Five years or more out of high school, you have the option of taking the ACT test or receiving "Life Experience" points.
- Completed one unit each of high school biology, algebra, and chemistry or college-level equivalents, all with a minimum grade of C. (A high school physics course may be helpful, but not required.) College physics is required as part of program curriculum.
- Students must receive a background check (federal and state) with clear results and pass random drug/alcohol tests in order to remain in program. Students are responsible for all testing, background check and certification fees.

A complete list of all entrance requirements, application procedures, and selection process for the Diagnostic Medical Sonography program is available upon request, in the current college catalog, or at www.rio.edu.

Contacts:

Dr. Stephanie Well-Mullins, Program Director
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