




MEDICAL IMAGING SCIENCES

**On-Line
Information Session**



The following information is intended to prepare students for a program within the Medical Imaging Sciences department of Horry Georgetown Technical College.

Updated 2022

MEDICAL IMAGING SCIENCES

Programs Offered

Grand Strand Campus only

- Radiology Technology (RT)
- Diagnostic Medical Sonography (DMS)
- Vascular Sonography (VAS) – advanced certificate
- Computed Tomography(CT) - advanced certificate

CUTTING EDGE CAREER

- Trained, certified technologists (RT) and Sonographers perform procedures and take images crucial to diagnosing patients
- Both required to be nationally registered
 - Radiologic Technologist must also be state licensed via state DHEC
- Radiologist (MD) interprets the images produced by Radiographers and Sonographers



PATIENT Centered Care



Statistics

The Median Annual Wage :

- Radiologic Technologists

\$63,000

- Diagnostic Medical
Sonographers

\$70,000

-MRI Technologist

\$65,000

Employment of Radiologic and MRI Technologists, including CT Technologists is projected to grow 7 percent from 2019 to 2029, much faster than the average for all occupations

What does Limited Access mean?

- Students must apply for acceptance into a program of interest by the established deadline. Entry is based on grades, experience, residency and previous degrees.
 - Radiologic Technology
 - Diagnostic Medical Sonography
- To progress through the programs, students must pass all classes with a “C” or better and have a cumulative GPA of 2.5

What does Limited Access mean?

- Below are the prerequisite or co-requisite courses required for completion of an associate degree in the RAD program.
 - RAD program allows courses to be taken in conjunction with the
 - BIO 210 – A& P I (pre-req for both)
 - BIO 211- A & P II
 - ENG 101(pre-req for both)
 - MAT 110 or MAT 120- College Algebra OR Statistics (pre-req for both)
 - PSY 201 General Psychology
 - CPT 101- Introduction to Computers
 - SPC 205
 - Humanities- *ART 101, ART 105, ART 108, ENG 201, ENG 202, ENG 205, ENG 206, ENG 208, ENG 209, HIS 101, HIS 102, HIS 201, HIS 202, MUS 105, PHI 101, PHI 110, REL 103, THE 101*

Below are the prerequisite required for completion of an associate degree in the DMS program. These courses must be completed prior to application to the program

- BIO 210 – A& P I
- BIO 211- A & P II (5 yr. time limit)
- ENG 101
- MAT 110 or MAT 120- College Algebra OR Statistics PSY 201 General Psychology
- PSY 201
- SPC 205
- AHS 110 (10 yr. time limit)
- AHS 102 (10yr. time limit)
- PHY 118
- Humanities- *ART 101, ART 105, ART 108, ENG 201, ENG 202, ENG 205, ENG 206, ENG 208, ENG 209, HIS 101, HIS 102, HIS 201, HIS 202, MUS 105, PHI 101, PHI 110, REL 103, THE 101*

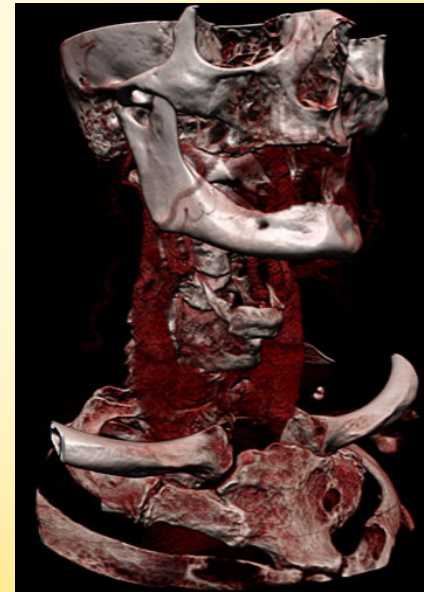
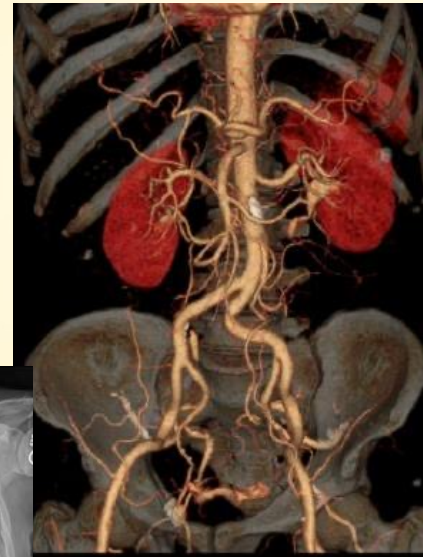
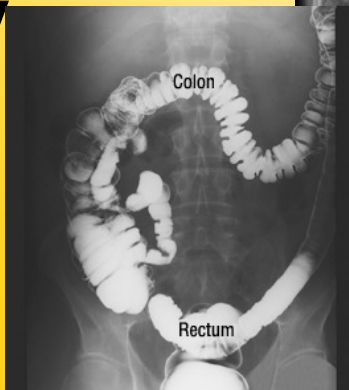
RADIOLOGIC TECHNOLOGY

- Successful students will receive an Associate Degree in Health Sciences
 - Credit Requirements: 89 Credit Hours – 6 semester program
- Weighted (based on Merit) Admissions used for acceptance and can be accessed online on the program webpage
 - *Applications are due January 15th*

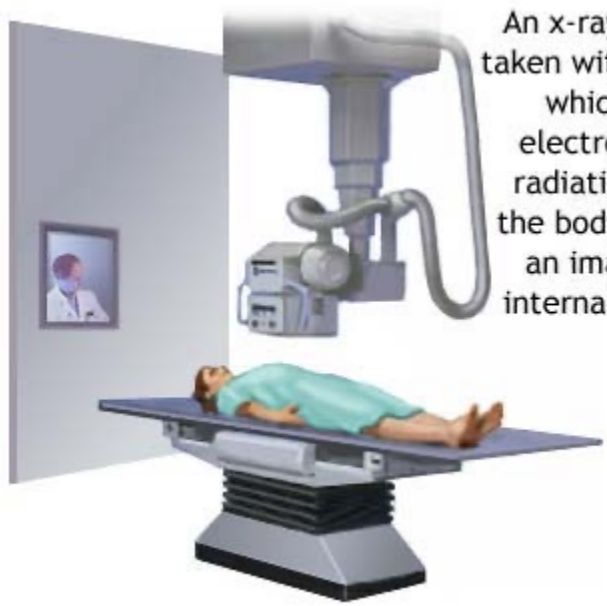
Radiography (X-ray Tech)

"Plain" Films

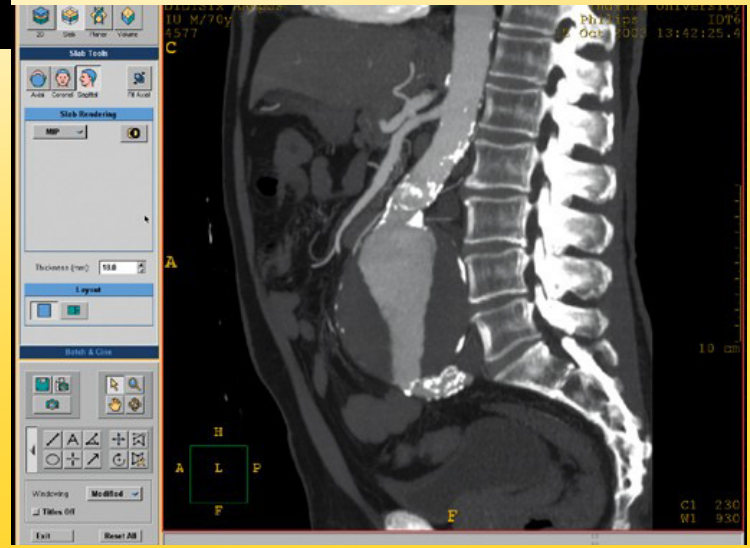
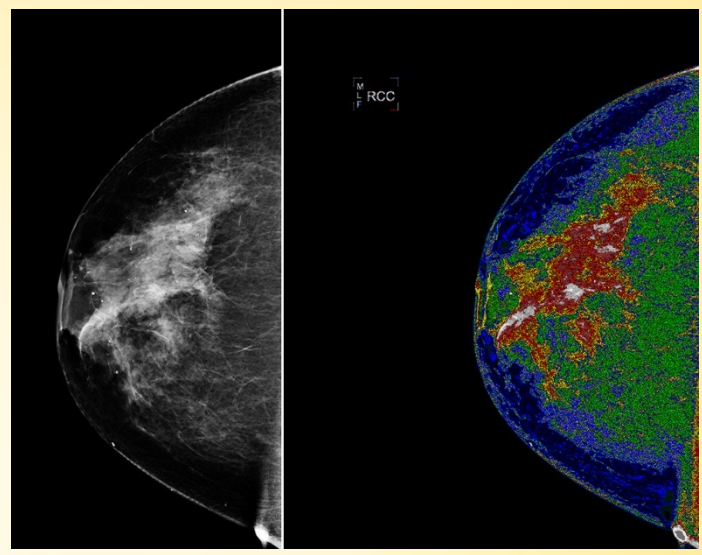
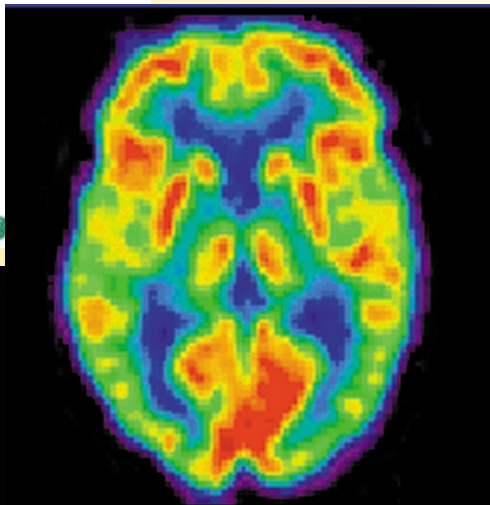
CT Reformat Images



1896- 1st x-ray



An x-ray is a photo taken with a machine which passes electromagnetic radiation through the body, capturing an image of the internal structures





- The program prepares the student to assist the radiologist (MD) in performing examinations to rule out, or confirm and identify, fractures and/or diseases.
- The student will be educated in the precise application of ionizing radiation to perform various radiographic procedures.
- In addition, a Radiologic Technologist (RT) may also train in special procedures such as CT, MRI, Mammography and Angiography.

ADDITIONAL INFORMATION

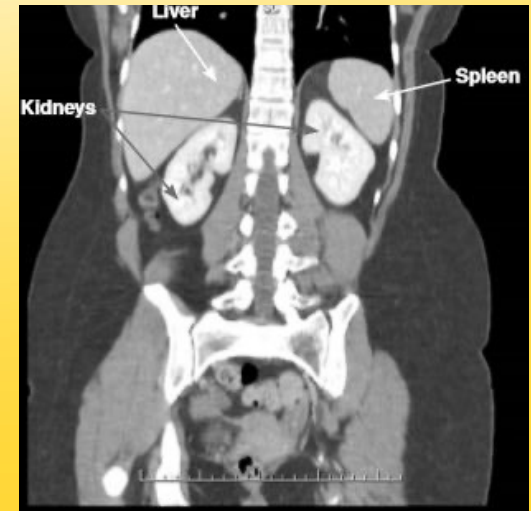
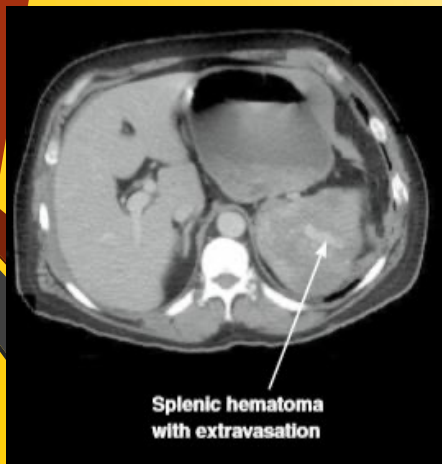
- Rad Techs and NMT techs all work with ionizing radiation and must be certified in their field.
- Criminal Background checks, drug testing and health records will all be required for these programs with proper documentation.

Negative reports may/will impact acceptance!!

- ***These are rigorous time-consuming programs and you must be willing to go the extra mile.***

Computerized Tomography

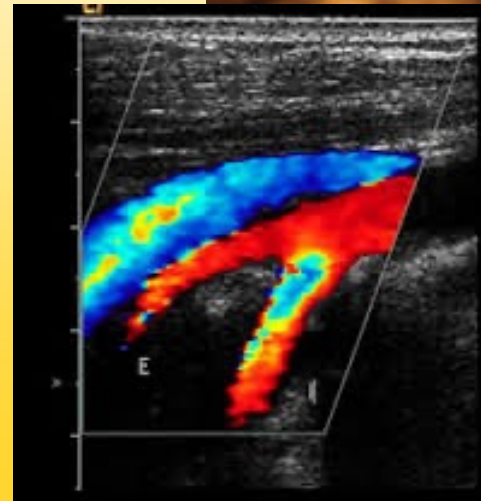
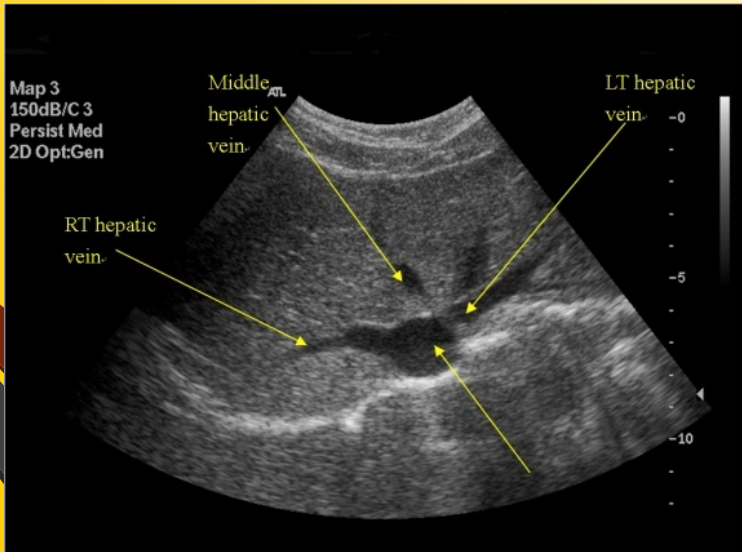
- 1 semester program- 18 credit hours
- Eligible applicants must be registered in:
Radiologic technology or Nuclear Medicine
- Successful graduates are eligible to sit for national registry board exam



DIAGNOSTIC MEDICAL SONOGRAPHY (Ultrasound Technologist)



LIVER

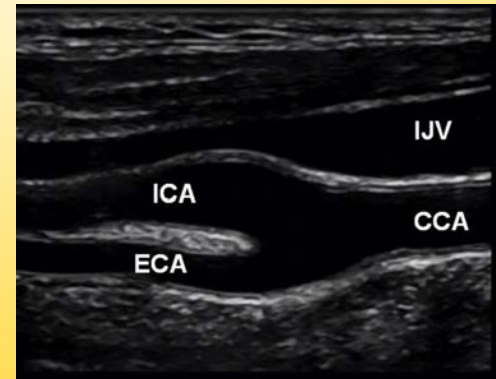


DIAGNOSTIC MEDICAL SONOGRAPHY (Ultrasound Technologist)

- This program prepares students to assist the radiologist (MD) in performing examinations to diagnose abnormalities and/or diseases throughout the body.
- The student will be educated in the general application of abdominal and OB/GYN ultrasound to perform various sonographic procedures in the healthcare setting.
- In addition, a Sonographer may also train in other sonographic areas such as Vascular, Breast, Musculoskeletal, and Echocardiography.

DIAGNOSTIC MEDICAL SONOGRAPHY

- Sonographers use the physical attributes of sound waves at high frequencies to produce diagnostic images for interpretation and diagnosis by qualified physicians.
 - These images are viewed on a screen and recorded as a permanent record.
- Sonographers are highly-trained and skilled in human anatomy
 - Recognition of pathology is the responsibility of the technologist during the procedure.

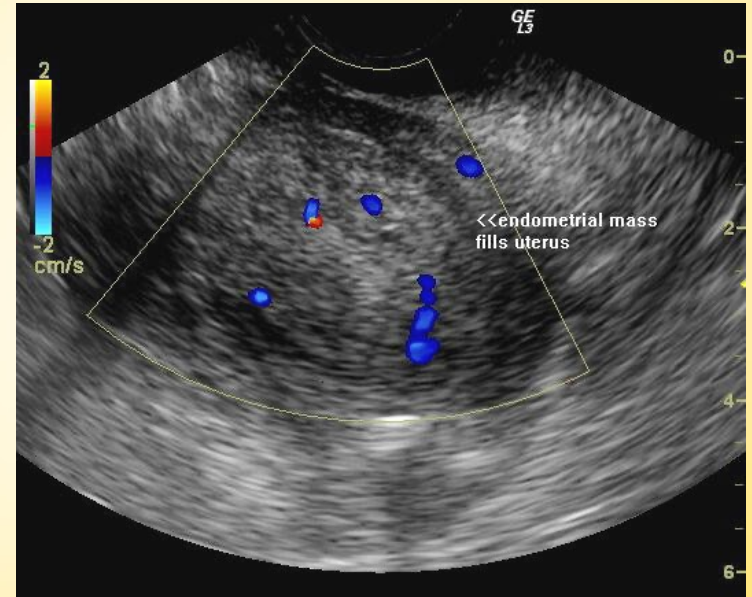


DIAGNOSTIC MEDICAL SONOGRAPHY

- Students will complete the program and receive a Certificate in Diagnostic Medical Sonography with an Associates in General Technology
- Acceptance based on weighted (based on Merit) admission process
 - Applications for the fall class each year are due in May of same year. Example: Application deadline May 15th for
- Credit Requirements: 69
 - Includes all pre-requisite coursework plus 40 credits of program courses.

DMS Acceptance

- May 15th - Annual application deadline
- Admission into following school year program
- Program begins in Fall Semester each year and is 4 semesters long
- Number of students accepted/year based on 1:1 ratio of technologist : student within clinical affiliate settings.



DIAGNOSTIC MEDICAL SONOGRAPHY

- Successful graduates are eligible to sit for 2 national registry board exams through ARDMS (American Registry for Diagnostic Medical Sonographers)
 - 1st exam – Ultrasound Physics
 - 2nd exam – Specialty(OB/GYN or ABD)
- Employers require sonographers to be registered in at least one specialty



VASCULAR SONOGRAPHY

- One semester- online format
- Certificate program
 - Credits - 8
- Students must be a current registered Sonographer or have graduated from a Sonography program and be board eligible.
- Successful graduates are eligible to sit for national registry board exam
 - ARRT or ARDMS–Vascular Sonography (dependent on current credentials)

KEYS TO SUCCESS

1. Know Due Dates for your program of interest!!

- It is your responsibility to know all applicable DUE DATES and requirements!!

2. Contact a Health Science Enrollment Advisor

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**For Advising on the Conway Campus
please visit TECH Central**



THE END

