MEDICAL IMAGING SCIENCE
Programs at HGTC

• Radiology Technology- GS campus
• Diagnostic Medical Sonography- GS campus
• Limited General Radiological Technology- GT campus
• Prior to acceptance into the Medical Imaging Sciences Programs the Radiologic Health Science Certificate is suggested.
• (all classes with a “C” or better) and cumulative GPA of 2.5
  • BIO 210 and BIO 211- A & P 1 and 2
  • ENG 101
  • MAT 110 or MAT 120- College Algebra OR Statistics
  • PSY 201 General Psychology
  • CPT 101- Introduction to Computers
  • SPC 205

DMS Program Only- Additional Requirements
• PHY 118 (Introduction to DMS/NMT Physics)
• Non-Allied Health Professionals are required to take AHS 110.
• AHS 104-Medical Vocabulary/Anatomy or AHS 102 Medical Terminology
The program prepares the student to assist the radiologist (MD) in performing examinations to rule out, or confirm and identify, fractures or diseases.

The student will be educated in the precise application of ionizing radiation to perform the radiographic procedures.

In addition a Radiologic Technologist may go on to train in special procedures such as CT, MRI, Mammography and Angiography.
Radiologic Technology

• Will receive an Associate Degree: Health Sciences
• Credit Requirements: 92 Credit Hours – 6 semesters
• Students should seek the advice of a Health Science Advisor.
• Students should look at taking the Health Science AS for the core curriculum classes
• Weighted Admissions used for acceptance and can be accessed online.

• **For 2015- Applications are due by: January 15th for admission into class beginning the following May**
1st RADIOGRAPH -1896

NOW
“Cutting Edge”- Careers

- Radiologist is the MD who “reads” the images produced by a Radiographer/X-ray tech.
- Radiologic Technologist (RT) or Radiographer – the trained, certified technologist who performs the procedures and takes the images
MIS- Patient Centered Care
X-Ray Images
Fractures “&” Broken Bones
CT and MRI
Diagnostic Medical Sonography

• Advanced Certificate – (With an Allied Health Background)
• Credit Requirements: 39
• Acceptance based on weighted admission
  • Applications for the Fall Class of 2016 (next open class) due in March of 2016
• Associate Degree in Applied Sciences- emphasis Diagnostic Medical Sonography
• Credit Requirements: 69
DMS Acceptance

• Limited Access Program
  • March - Annual application deadline
  • Admission into following year program
  • 10 students/year accepted - based on 1:1 ratio of technologist : student
  • Begin Fall Semester- Program is 4 semesters long - Begins in Fall- ends in Dec
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.
- DMS Technologists are highly-trained/skilled in human anatomy.
- Recognition of pathology is the responsibility of the technologist during the procedure.
DIAGNOSTIC MEDICAL SONOGRAPHY
DIAGNOSTIC MEDICAL SONOGRAPHY Technologist
GB/Stones
LIMITED GENERAL RADIOLOGIC TECHNOLOGY

- An entry-level position as a professional limited general Radiographer.
- Generally work in doctors offices, free standing medial clinics, orthopedic offices and chiropractors offices.
Limited Radiography Program

- Credit Requirements:
  - 37 Credit Hours
- Three semesters- begin in Spring
- Bio 112 and Mat 101 required
- Must maintain a 2.5 GPA and a “C” or above in all core classes
An x-ray is a photo taken with a machine which passes electromagnetic radiation through the body, capturing an image of the internal structures.
Additional Information

• Rad Techs, Limited General Techs and NMT tech all work with ionizing radiation and must be certified in their field.
• Because of medical reimbursement DMS techs are also being required to get certifications in their specialties.
• Criminal Background checks, drug testing and health records will all be required for these programs with proper documentation.
• These are rigorous time consuming programs and you must be willing to go the extra mile.
The End