

## Admission

Applicants for admission to St. Mary's Medical Center School of Medical Imaging must complete an admission application between January 1 and April 1 for the class beginning the following July. The application must include high school and college transcripts and a signed Technical Standard Review Declaration Form. A minimum ACT score of 19 on composite math and science will improve an applicant's chances of being accepted into the program. Minimum requirements for consideration are:

1. A twenty-five (\$25) dollar, non-refundable, application fee.
2. High school diploma or successful completion of the GED.
3. A minimum of 21 hours of college credits (100 level courses or higher) from a regionally accredited institution must be completed prior to applying to the program.
4. A minimum of eight (8) hours of professional observation within a hospital radiography department.
5. A letter grade of "C" or better must be obtained in each of the following Marshall University courses (or equivalent courses from other institutions).
  - MAT 145 Technical Math I
  - SCI 110 Introductory Physics
  - BIOL 260 Human Anatomy
  - BIOL 265 Human Physiology
  - CHM 203 General Chemistry
  - AH 151 Medical Terminology
6. Points are awarded for a GPA of 2.5 or greater.

A minimum ACT score of 19 on the composite, math and science sections, will improve an applicant's chance of admission.

**\*\* Any substitution or variation of pre-requisite course work requires special permission of Program Director\*\***

## Applicants

The admission process is highly competitive. Each year, hundreds of applicants apply for 20 spaces in the program. In all phases of the admission process, points are awarded based on high school grades (or GED scores), college grades and ACT scores. The 35-40 applicants with the most points will be invited for a personal interview. Points are again awarded based on the applicant's interview score. The 18-20 applicants with the highest interview plus academic scores are accepted into the program. Some applicants will be placed on the alternate list. **Acceptance into the program is contingent upon a negative drug screening and a clear background check before the start of the first semester. The program reserves the right to request random drug screenings after admittance.**

The school reserves the right to change faculty, policies and admission requirements without notice. Updated information will be provided if changes are made.

Within 30 days of admission, each student must submit an immunization record and documentation of Hepatitis B vaccination. Because of the possible effects of radiation exposure, each student must execute an informed consent to participate in the program. Because of the possible effects of radiation exposure to a fetus, accepted applicants who are pregnant must be at least six weeks post-partum to start of classes. The program does offer four options to students who become pregnant after acceptance into the program. Contact the program director for details. Each student accepted into the program will also be required to complete CPR certification prior to the start of classes, through the hospital certification program. You will be given a number to call for scheduling the CPR class.

## **Technical Standards**

Technical standards are those standards or abilities that a student must possess to be successful in this profession. All applicants are required to sign a Technical Standards Review Declaration Form to be submitted with application form.

Part of the training in radiologic technology involves working one on one with patients. Student technologists are responsible for the safety and well-being of their patients while performing examinations. The students will also be manipulating equipment where the potential injury to the patient and student is present.

### **1. Motor Skills**

- extend the hands and arms in any direction
- hold, grasp and turn with the hands
- safely lift, manipulate and use equipment
- reach up to six feet off the floor
- ability to coordinate eyes, hands and feet rapidly and accurately
- lift 30-35 lbs. waist high
- push and pull at least 100 lbs.

### **2. Visual Acuity**

- Sufficient far vision to see objects beyond 20 feet
- sufficient near vision to see objects within 20 inches
- depth perception
- see in all directions
- observe and evaluate changes in the patient or equipment

### **3. Communication Ability**

- perceive the nature of sounds through hearing
- be able to speak, hear and observe patients
- express and exchange information through written and verbal communication

### **4. Behavioral Skills**

- Function effectively under stress
- establish sensitive and cooperative relations with patients and co-workers
- adapt to changing environments

\*\* See Admission above regarding Declaration Form\*\*

## **The Program**

The training program consists of 24 months of class work and clinical experience under qualified radiologic supervision. Designed to enhance the experience of each student, the program provides that each student follows a radiographer's schedule, including evening rotations.

The training program provides each student with a total of 800 classroom hours and approximately 1950 hours of clinical experience at St. Mary's Medical Center and other sites.

Students gain hands-on clinical experience under the supervision of clinical instructors and staff radiographers. Before assuming responsibility for performing examinations on their own, students must demonstrate competency through performance evaluation and examination.

All new students are evaluated after their first two months with the program. If a student's academic performance is below a 2.5 GPA or the or clinical experience is unacceptable , the school could request that the student withdraw from the program at that time. Progression in the program requires the student to maintain a 2.5 GPA. Students who fail to maintain the required average will be placed on academic probation which must be remedied by the mid-term progress of the following semester. Throughout the program, faculty members monitor and advise students on their performance in the classroom and clinical setting. The school upholds strict standards of clinical excellence and professionalism for its students. In order for a student to be eligible for graduation, they must demonstrate satisfactory completion of all didactic and clinical course work requirements. In addition, students must score 80 percent or better on the exit exam. Upon graduation students are eligible to sit for the ARRT certification exam.

An Associate of Radiological Science degree option is available through Marshall Community and Technical College (MCTC) for interested students. Students who complete 33 hours of general course work through MCTC will be granted an A.A.S. degree in Radiologic Science from MCTC once the applicant has graduated from the School of Medical Imaging. The preference courses listed under Admission are part of the 33 hours. For more information, contact MCTC at 1-800-642-3437.

## **Curriculum**

### **Semester I (Summer-Fall)**

#### **RS 201 Fundamentals of Radiographic Science**

Content is designed to provide an overview of the foundations in radiography and the practitioner's role in the healthcare delivery system

#### **RS 202 Patient Care**

Content is designed to provide the basic concepts of patient care including consideration for the physical and psychological needs of the patient and family.

#### **RS 203 Ethics and Law**

Content is designed to provide a fundamental background in ethics. The student will examine a variety of ethical issues and dilemmas found in clinical practice.

#### **RS 204 Radiographic Procedures I/Lab I**

Content is designed to provide a knowledge base necessary to perform standard radiographic procedures along with the application to special studies. Laboratory is used to complement the didactic portion.

#### **RS 205 Clinical Practice I**

Content and clinical practice experiences are designed for sequential development, application, critical analysis, integration, synthesis and evaluation of concepts and theories in the performance of radiologic procedures. Clinical practice experiences are designed to provide patient care and assessment, competent performance of radiologic imaging and total quality management.

#### **TBA Radiographic Anatomy I**

Content is designed to provide knowledge of anatomical structures as visualized on various imaging modalities.

### **Semester II (Spring)**

#### **RS 208 Radiographic Procedures II/Lab II**

Content is designed to provide a knowledge base necessary to perform standard radiographic procedures along with the application to special studies. Laboratory is used to complement the didactic portion.

#### **RS 209 Radiologic Science Pharmacology**

Content is designed to provide basic concepts of pharmacology including basic techniques of venipuncture and administration of diagnostic contrast agents and/or intravenous medications are included.

#### **RS 210 Clinical Practice II**

Content and clinical practice experiences are designed for sequential development, application, critical analysis, integration, synthesis and evaluation of concepts and theories in the performance of radiologic procedures. Clinical practice experiences are designed to provide patient care and assessment, competent performance of radiologic imaging and total quality management.

#### **RS 221 Human Diversity for Radiologic Technology**

Content is designed to promote better understanding of patients, the patients' families and professional peers through comparison of diverse populations based on their value system, cultural and ethnic influences, communication styles, socioeconomic influences, health risks and life stages.

#### **TBA Radiographic Anatomy II**

Content is designed to provide knowledge of anatomical structures as visualized on various imaging modalities. Sectional anatomy is introduced.

## **Semester III (Fall)**

### **RS 211 Radiation Production and Characteristics**

Content is designed to establish a basic knowledge of atomic structure and terminology. Also presented are the nature and characteristics of radiation, X-ray production and the fundamentals of photon interactions with matter.

### **RS 212 Imaging and Processing/Imaging Lab I**

Content is designed to establish a knowledge base in factors that govern and influence the production and recording of radiologic images. Class demonstrations/labs are used to demonstrate application of theory.

### **RS 213 Radiographic Pathology**

Content is designed to introduce theories of disease causation and the pathophysiologic disorders that compromise healthy systems. Etiology, pathophysiologic responses, clinical manifestations, radiographic appearance and management of alterations in body systems will be presented.

### **RS 215 Clinical Practice III**

Content and clinical practice experiences are designed for sequential development, application, critical analysis, integration, synthesis and evaluation of concepts and theories in the performance of radiologic procedures. Clinical practice experiences are designed to provide patient care and assessment, competent performance of radiologic imaging and total quality management.

### **RS 218 Advanced Imaging Modality Seminar**

Content is designed to provide introduction to advanced imaging modalities including CT, MRI, Nuclear Medicine, Angiography, Mammography and Oncology.

## **Semester IV (Spring)**

### **RS 206 Radiobiology**

Content is designed to provide an overview of the principles of the interaction of radiation with living systems. Factors affecting biological response are presented including acute and chronic effects of radiation.

### **RS 207 Radiation Protection**

Content is designed to present an overview of the principles of radiation protection including the responsibilities of the radiographer for patients, personnel and the public. Radiation health and safety requirements of federal and state regulatory agencies, accreditation agencies and healthcare organizations are incorporated.

### **RS 214 Image Analysis**

Content is designed to provide a basis for analyzing radiographic images. Actual images will be included for analysis.

### **RS 216 Computers in Radiologic Science**

Content is designed to introduce knowledge in computing and information processing. Computer applications in the radiologic sciences related to image capture, display, storage and distribution are presented.

### **RS 217 Imaging Equipment**

Content is designed to establish a knowledge base in radiographic, fluoroscopic, mobile and tomographic equipment requirements and design. The content also provides a basic knowledge of quality assurance.

### **RS 219 Registry Review Seminar**

Content is designed to aid the student in preparation for the ARRT board examination.

### **RS 220 Clinical Practice IV**

Content and clinical practice experiences are designed for sequential development, application, critical analysis, integration, synthesis and evaluation of concepts and theories in the performance of radiologic procedures. Clinical practice experiences are designed to provide patient care and assessment, competent performance of radiologic imaging and total quality management.

### **Family Educational Rights and Privacy Act of 1974**

This act was designed to protect the privacy of education records, to establish the rights of students to inspect and review their education records, and to provide guidelines for the correction of inaccurate or misleading data.

### **Conflict of Conscience**

It is the policy of the school that the reasonable and conscientious moral and religious convictions of students will be respected in every way possible. **Students are to make these convictions known at the time of admittance to the School of Medical Imaging.**

### **Policy Regarding Special Needs**

Special testing conditions will be provided only to students with professionally documented special testing needs. It is the student's responsibility to inform all the instructors of each course, within the first 2 weeks, of special testing procedures and any disability requiring special accommodations.

### **Student Services**

Counseling and Advisory Program  
Health Services  
Student Class Organization  
Lambda Nu Honor Society

**Tuition:** \$250/credit hour, capped at 12 hours

- \$250 deposit due immediately upon acceptance, \$2750 due on the first day of school
- \*Tuition is subject to change without notice.\**

Accepted students are responsible for purchasing school approved uniforms. Information will be provided in each student's letter of acceptance. Tuition is due on the first day of each semester. Failure to pay fees by the scheduled time will result in dismissal from the program.

### **Estimated Annual Cost to Attend**

- Tuition \$6000
- Textbooks: \$500 (approximately)
- Uniforms: \$150 (approximately) • Drug Screening/Background Check: \$100
- Total: \$6750 + following if applicable

\*\*Current cost of Hepatitis B vaccination and TB test (App. \$150.00). If current documentation is shown, Hep.B may not need to be repeated; misc. supplies (paper, notebooks, board review books and a non-programmable scientific calculator) \*\*

\*\*Each student arranges for their own residence while attending school. \*\*

adopted: 9/20/99 ; Rvsd 4/3/06; Rvsd 9/25/06;7/13/07

### **Refund Policy**

The \$250 deposit is non-refundable. If a student withdraws or is dismissed within the first three months there is a \$500 tuition refund. No refunds are given after three months.

### **Financial Aid**

Students may apply for federal student loans or grants through the Marshall University Financial Aid office. Students will be required to register through Marshall Community and Technical College for classes. SMMC-SOMI provides information on tuition or fees to Marshall University. SMMC- SOMI has no influence regarding the award or denial of federal or state financial aid. SMMC- SOMI will notify MCTC and the Financial Aid Office if any student voluntarily withdraws or is dismissed from the program. St. Mary's Medical Center School of Medical Imaging is approved for VA funding.

**\*Tuition is subject to change without notice.**

**SMMC-SOMI Policy: Transfer of Credit Policy and Procedure**

Purpose: transfer of individuals into the SOMI. SMMC- SOMI will consider individuals wishing to transfer into the SOMI from another JRCERT accredited program in radiography on an individual basis. Several factors that will be considered include:

- Available clinical space
- Type of program transferring from (Medical Center, college, vocational, military, etc...)
- Academic and clinical courses and competencies completed
- Clinical hours completed
- Other factors deemed necessary

SMMC- SOMI does not guarantee acceptance of transfer students. Acceptance is contingent upon the recommendation of the Admissions Committee. Any student granted transfer into the SOMI will be on probation for two months as would be expected of any beginning student and will be required to complete all clinical and academic requirements set forth by the SOMI director for graduation.

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