



MODALITY

# Magnetic Resonance Imaging (MRI)

## PROGRAM MISSION, GOALS, PURPOSE AND OUTCOMES

### ■ Mission

The mission of Southwest University at El Paso is to provide exceptional career and technical training, promote intellectual growth, critical examination and informed understanding through general education and a commitment to educational excellence strengthened by quality instruction, a positive learning environment, and the integration of emerging technologies to enable students to achieve their potential, participate in new employment opportunities, and continue to be lifelong learners.

Consistent with the mission of the faculty of Southwest University, the MRI program is committed to providing quality instruction by preparing the student to be employable at an entry level in the Magnetic Resonance Imaging sciences.

### ■ Goals

The goals of the Southwest University MRI program are:

- Goal #1:** Graduates will be clinically competent.
- Goal #2:** Graduates will be effective problem solvers.
- Goal #3:** Graduates will communicate effectively.
- Goal #4:** Graduates will be professional.
- Goal #5:** The program will be effective in its instructional efforts.

## ■ Purpose

The freedom of individuals to gain knowledge and understanding is essential in the maturing of the mind. So that all students may exercise these freedoms a school must have an environment that does not lack order and stability.

## ■ Outcomes

1. Students will perform Magnetic Resonance Imaging examinations competently
2. Students will demonstrate effective problem solving skills.
3. Students will communicate effectively with patients.
4. Students demonstrate importance of professional behavior and activities.
5. Graduates will be members of a professional society.
6. The program will be effective in its instructional efforts.
7. Program starters will complete the program.
8. Graduates will successfully complete the national certification examination.
9. Graduates, whom have sought employment, will be employed within 12 months of graduation.
10. Graduates will be satisfied with the program.
11. Employers will be satisfied with graduates.

## JOB TITLE

### ■ MRI TECHNOLOGIST

## JOB DESCRIPTION

- A **Magnetic Resonance Imaging Technologist** is a Diagnostic Medical Professional that is qualified by professional credentialing and academic and clinical experience to provide detailed pictures of structures inside the body, using Magnetic Resonance Imaging (MRI) procedures. The scope of practice of the MRI Technologist includes those procedures, acts and processes permitted by law, for which the individual has received education and clinical experience, has demonstrated competency, and has completed the appropriate MRI certification(s) which is the standard of practice in MRI.

## **JOB SUMMARY**

- The Magnetic Resonance Imaging Technologist is responsible for the independent operation of Magnetic Resonance Imaging equipment, and for performing and communicating results of diagnostic examinations using MRI.
- Furthermore, the Magnetic Resonance Imaging Technologist is responsible for daily operations of the MRI laboratory, patient schedule, equipment maintenance, the report of equipment failures, and quality assessment (QA). The Technologist maintains a high standard of medical ethics at all times and is self-motivated to increase level of understanding and knowledge of the field, disease, and new procedures as they evolve.

## **ESSENTIAL FUNCTIONS**

- Performs clinical assessment and diagnostic MRI examinations.
- Uses cognitive MRI skills to identify, record, and adapt procedures as appropriate to anatomical, pathological, diagnostic information and images.
- Uses independent judgment during the MRI exam to accurately differentiate between normal and pathologic findings.
- Analyses sonograms, synthesizes MRI information and medical history, and communicates findings to the appropriate physician.
- Coordinates work schedule with Departmental Director and/or scheduling desk to assure workload coverage.
- Assumes responsibility for the safety, mental and physical comfort of patients while they are in the sonographers care.
- Assists with the daily operations of the MRI laboratory.
- Maintains a daily log of patients seen / completes exam billing forms.
- Maintains MRI equipment and work area, and maintains adequate supplies.
- Participates in the maintenance of laboratory accreditation.
- Establishes and maintains ethical working relationships and good rapport with all interrelating hospitals, referral or commercial agencies.
- Performs other work-related duties as assigned.

## EXAMPLES OF DUTIES & RESPONSIBILITIES

- Performs all requested MRI examinations as ordered by the attending physician.
- Prepares preliminary reports and contacts referring physicians when required, according to established procedures.
- Coordinates with other staff to assure appropriate patient care is provided.
- Addresses problems of patient care as they arise and makes decisions to appropriately resolve the problems.
- Organizes daily work schedule and performs related clerical duties as required.
- Assumes responsibility for the safety and well-being of all patients in the MRI area/department.
- Reports equipment failures to the appropriate supervisor or staff member.
- Provides in-service education team on requirements of MRI procedures as requested by other members of the health care team.
- Performs other related duties as assigned.

## MRI TECHNOLOGIST FOR ASSOCIATES DEGREES

- According to the ASRT, MRI technologists are employed in clinics or physician's office, there are those in government and VA hospitals, technologist working in outpatient imaging facilities, MRI technologist at for-profit hospitals earned an average of a not-for-profit hospital.
- There are many factors that determine an individual's salary, please consider all the factors when investigating your regions salary.

## CAREER OPPORTUNITES

- Magnetic Resonance Imaging is a dynamic profession that has grown significantly over the past 20 years. With rapidly developing new technologies and increased use of MRI procedures, growth is projected to continue in the future with employment opportunities for qualified Magnetic Resonance Imaging Technicians in both urban and rural areas nationwide. Magnetic Resonance Imaging Technician can choose to work in clinics, hospitals, private practice physician offices, public health facilities, laboratories, and other medical settings performing examinations in their areas of specialization. Career advancement opportunities exist in education, administration, research, and in commercial companies as education/application specialists, sales representatives, technical advisors, etc.

## LICENSES AND CERTIFICATION

- **Currently the program is accredited by the Accrediting Bureau of Health Education Schools (ABHES) which is recognized as an accreditor for the ARRT (The American Registry of Radiologic Technologists®)**
  - **ABHES:** 7777 Leesburg Pike, Suite 314 N. Falls Church, VA 22043. Phone: (703) 917-9503; Fax: (703) 917-4109
    - Link: <https://www.abhes.org/>
  - **ARRT:** 1255 Northland Drive, St. Paul MN 55120. Phone: (651) 687-0048; Fax: (651) 994-8510.
    - Link: <https://www.arrt.org/>
  
- **Southwest University is also recognized by (ARMRIT®) American Registry of Magnetic Resonance Imaging Technologists.**
  - **ARMRIT:** 8815 Commonwealth Blvd. Bellerose, NY 11426. Phone: (718) 347-8690; Fax: (718) 347-8691
    - Link: <https://www.armrit.org/>
  
- Most employers prefer to hire Magnetic Resonance Imaging Technologists who have professional certification. An MRI Technician can get certification by graduating from an accredited program and passing an exam. Most exams relate to the specialty that the MRI Technologist is most interested in—for example, an exam to be become certified in abdominal MRI. A few states require Magnetic Resonance Imaging Technologist to be licensed. Typically, professional certification is required for licensure; other requirements vary by state. Magnetic Resonance Imaging Technologist must take continuing education to keep their certification current.

## STANDARD AND GUIDELINES

### ARRT (MR)

*The American Registry of Radiologic Technologists®*

Certification for Students

The only means of obtaining an ARRT credential is by examination. Required prerequisites must be met before an applicant can earn an ARRT credential.

Link: <https://www.arrt.org/>

## ARMRIT®

### *American Registry of Magnetic Resonance Imaging Technologists* Certification for Students

The only means of obtaining an ARMRIT credential is by examination. Required prerequisites must be met before an applicant can earn an ARMRIT credential.

Link: <http://www.armrit.org/>

## ENTRANCE REQUIREMENTS

### WHAT ARE THE ENTRANCE REQUIREMENTS?

- A Baccalaureate Degree in Health Sciences or related from any Accredited Institution
- **OR** by completion of the following:
  - 3.5 GPA and 90% attendance and no write-ups for students enrolling from one of the Southwest University allied health program to sit for the entrance exam.
  - **Medical Assistant/Laboratory Assistant**
  - **Associate of Applied Science in Medical Coding and Billing Systems**
  - **Associate of Applied Science in Health Administration**
  - **Associate of Applied Science in Medical Laboratory Technologist**
  - **Baccalaureate of Science Degree in Health Administration**
  - **Associate of Applied Science in Diagnostic Medical Sonography**
  - **Associate of Applied Science in Radiological Sciences**
- Students must **register** to take the Entrance Exam and passed it with a 70% or better.
- Application Package must include
  - Entrance Exam Results Letter
  - Completed Application with Essay
  - Final Southwest University Transcript

- Background Check (Successfully completed by American Data Bank)
  - Drug Test (10 panel negative result drug test)
  - Immunization Records must be verify according to Departmental Standards
  - HIPAA Certification
  - Current CPR Card
  - Physical Exam
- More information can be accessed through the following link:  
Imaging Programs Requirements & Application Process

## **GENERAL INFORMATION**

### **HOW LONG IS THE PROGRAM?**

MRI program is 88 consecutive weeks not including holidays.

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### **WHO DO I CONTACT, AND WHERE DO I APPLY?**

Admissions Department/Imaging Department  
Southwest University  
1414 Geronimo Drive  
El Paso TX, 79925  
(915) 778-4001  
Fax: (915) 778-1575

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### **WHEN DO I APPLY?**

Please inquire about important dates related to the imaging sciences program with our admission representatives.

## **POLICIES ON ADMISSION AND ENROLLMENT**

Please refer to the University Catalog

Click below to access.

## **TUITION FEES /REFUND POLICY**

For Further information concerning Southwest University radiologic technologist and other programs, Tuition Fees/Refunds please refer to the SU Catalog

Click below to access.

## **ACADEMIC MISCONDUCT AND SCHOOL POLICIES**

Please refer to the University Catalog

Click below to access.

## **CALENDARS**

<b>ACADEMIC CALENDAR 2015</b>	
JANUARY 5, 2015	FIRST DAY OF CLASSES
APRIL 3, 2015	EASTER BREAK
MAY 25, 2015	MEMORIAL DAY
JULY 3, 2015	BREAK
SEPTEMBER 7 <sup>th</sup> , 18 <sup>th</sup> , 2015	FALL BREAK
NOVEMBER 25-29, 2015	THANKSGIVING BREAK
DECEMBER 16, 2015	LAST DAY OF CLASSES



### 2015 Term Calendar

Start Date	End Date
1/5/2015	2/13/2015
2/16/2015	3/27/2015
3/30/2015	5/11/2015
5/12/2015	6/23/2015
6/24/2015	8/5/2015
8/6/2015	9/17/2015
9/21/2015	10/30/2015
11/2/2015	12/16/2015

## CLINICAL OBLIGATIONS

### ■ Clinical Education

Clinical education is an integral part of the professional education of a MRI technologist. The Program's mission could not be achieved without it. During clinical education, students will apply the knowledge and skills acquired through classroom and laboratory study on campus in medical settings where they have the opportunity to work with actual patients under the supervision of qualified professionals. Through this well supervised "hands-on" experience, students develop competence and prepare to assume professional responsibility.

During clinical assignments it is important for students to remember that an MRI Department is a service department. It exists to provide service to patients, medical staff, and the community. When students participate in clinical education in any of the Program's recognized facilities, they assume all of the responsibilities of a health care professional. Practicing procedure and patient care skills to gain competence and proficiency is important, but students will also be providing service to patients. Improving knowledge and skill are important components of clinical education, but significant attention will also be given to demonstration of professional attitude, professional conduct, appropriate and effective interpersonal skills, and responsibility and dependability.

While at an assigned facility, students are first students of Southwest University and secondly guests of that particular clinical education setting. Students are expected to follow the rules and protocols of Southwest University and of the assigned facility unless they conflict with Southwest University or Program policy.

## ■ Clinical Education Settings

Southwest University maintains affiliations with hospitals and clinics in the greater El Paso, Texas. These affiliates serve as Clinical Education Settings where students gain clinical experience under the supervision of qualified professionals. The MRI program, at its discretion, makes the specific clinical assignments for each student. Southwest University may consider student and facility preferences in the assignment of students to clinical education settings, but Southwest University does not guarantee that these preferences will be met. Enrollment in the Program signifies the student's agreement that he or she will attend the clinical education settings assigned by Southwest University for the hours and times assigned by Southwest University.

Clinical Education Settings affiliated with Southwest University's MRI Program are subject to change. At the time of this publication, the following settings were recognized Clinical Education Settings.

Del Sol Medical Center

Del Sol Outpatient Diagnostic Center

Desert Imaging Castellano

Desert Imaging Lee Trevino

El Paso Specialty Hospital

Las Palmas Medical Center

Las Palmas Outpatient Diagnostic Center

Sierra Providence East Medical Center

Sierra Providence Total Care Diagnostic Center (West)

Sierra Providence Total Care Diagnostic Center (Northeast)

Sierra Providence Total Care Diagnostic Center (Central)

University Medical Center

At Southwest University, clinical education follows successful completion of eleven terms of instruction in MRI classrooms and MRI simulators on campus. The student has mastered considerable knowledge of the field prior to clinical education. Clinical education focuses on the new challenge of applying this knowledge in

actual practice. The student begins by observing and assisting an MRI Technologist in the performance of duties. As the student gains experience, he or she moves from passive observation to assisting the MRI technologist in MRI examinations. As additional experience is acquired, the student begins to perform examinations under direct supervision. The student next progresses to documentation of competency on certain procedures, which can then be performed under indirect supervision. The rate at which the student progresses is dependent upon the ability of the student to comprehend and perform the various assigned tasks and the support and encouragement provided by the Clinical Instructor and affiliate staff.

## ■ Clinical Plan

Students are assigned to clinical education settings in a manner that assures that students of average or better accomplishment, initiative, and confidence will be able to achieve all of the required competencies and all clinical program requirements within the hours that comprise clinical education courses. All students **MUST** complete any specific clinical site modules prior to entering into the clinical setting. Students will be assigned to at least two different sites with different patient populations, procedures, equipment, and working environments. To be successful, the student must adapt to the type of environment to which he/she has been assigned. (TRANSLATION: The site will not be adapting its procedures and expectations to accommodate the student.)

It is the student's responsibility to become familiar with and abide by all the rules and regulations set forth by the clinical sites MRI Suite Safety, Operations Policies and Procedures Manual.

The Clinical Coordinator is responsible for monitoring each student's competency achievement to assure that each student is assigned to clinical education settings that together will give the student the opportunity to achieve all needed competencies. Each term the Clinical Coordinator will assign individual students to specific clinical education settings based on matching the students' remaining educational needs with the settings' opportunities. Achievement of competencies by each student is monitored throughout each term and if it becomes apparent that a student is unexpectedly not being provided appropriate opportunities (e.g., due to a lower than expected procedure volume) at a given setting the student will be reassigned, unless adjustments at the setting can remedy the problem.

By enrolling in the Program, students have agreed that they will accept assignment to any clinical site made by the program. While student considerations are taken into account, there is no guarantee students will be placed at a site or sites of their choice. Students may have to drive up to 100 miles or more to their respective clinical site each day.

The student will not be placed at a clinical site that they have any affiliation this includes being employed by the facility in any way shape or form. This includes any employment or volunteering duties of immediate

family or any relatives regardless of relationship. Clinical faculty will rule on all situations that arise from the above circumstances. All faculty rulings are final.

The student can be removed from a clinical site if they are not performing, meeting goals, any academic misconduct, and unprofessional behavior or meeting any standards set forth by the site.

If a student is removed from a clinical site for any reason, the student will receive a failing grade and be removed from the program.

Every student must complete a required 1050 hours of scheduled clinical education to qualify for graduation from the MRI Program. There are 5 clinical courses with 210 clinical hours per course. The 1050 hours meets one of the requirements set forth by The American Registry of Magnetic Resonance Imaging Technologists (ARMRIT) for certification eligibility.

Students are responsible for their own transportation to and from clinical sites. To be prompt, students must have reliable transportation and knowledge of how to reach the clinical site and the assigned area within each particular clinical site.

Every effort is made to inform students of their assigned site at least two weeks in advance of the beginning of the term; whenever possible students will receive their assignments four weeks in advance. However, because unforeseen changes in personnel or other changes at clinical education settings are beyond the control of the Program, this is not always possible.

### ■ **Clinical Education Schedules**

Each student assigned to a clinical education setting will have a weekly schedule approved in advance by the Clinical Coordinator and the Clinical instructor. This schedule will provide starting and ending times for each day of the week and will total not more than forty hours per week. All assignments will be Monday through Friday, will end not later than 7:00 p.m., and will exclude any Southwest University-recognized holidays.

Students are given the same amount of time for coffee and lunch breaks as staff technologist at the institution. All students must take regular lunch breaks.

Any deviation from the approved schedule must be approved in advance. This includes any change in starting or ending times and change in days of the week. Assigned clinical hours may not exceed 40 hours per week in term. Students will be credited with only actual hours of attendance that are pre-approved. If a student attends hours that are not pre-approved, those hours will not be recorded toward satisfying course requirements. It is also important to note that a student who attends hours that are not pre-approved is not covered by professional liability insurance.

Every effort will be made to give students advance notice of changes in required schedules occasioned by changes in staffing or circumstances at the clinical education setting. Clinical schedules will not be changed to accommodate student work schedules or to accommodate other personal situations of the student.

## GRADING SYSTEM

- **Basis for Calculation:** The cumulative grade point average (GPA) will be calculated at the end of each six-week period (or at the student's request). The calculation will be based on all quarter credit hour courses completed during the grading period.
- **Grade Explanation Numeric Grades**

<b>A</b>	<b>EXCELLENT</b>	<b>90-100</b>	<b>4</b>
<b>B</b>	<b>ABOVE AVERAGE</b>	<b>80-89</b>	<b>3</b>
<b>C</b>	<b>AVERAGE</b>	<b>70-79</b>	<b>2</b>
<b>F</b>	<b>FAILING</b>	<b>BELOW 70</b>	<b>0</b>
<b>I</b>	<b>INCOMPLETE</b>	<b>NOT COMPLETED</b>	<b>NOT COMPUTED</b>
<b>W</b>	<b>WITHDRAWN</b>	<b>NOT COMPLETED</b>	<b>NOT COMPUTED</b>
<b>CR</b>	<b>CREDIT</b>	<b>NOT COMPLETED</b>	<b>NOT COMPUTED</b>
<b>T</b>	<b>TRANSFER CREDIT</b>	<b>NOT COMPLETED</b>	<b>NOT COMPUTED</b>

## TRANSFER OF CREDIT

Please refer to the University Catalog

Click below to access.

## GRIEVANCE POLICY

- **Procedures for initiating Grievance Complaints:** This procedure has been established to provide a method to resolve student grievances at the lowest administrative level in a fair and expeditious manner. For the purpose of this procedure, grievances are limited to alleged violations of Southwest University at El Paso policy or procedures by Southwest University at El Paso or its employees, disputes with faculty and/or alleged unfair treatment. This method is usually used to appeal a grade the student feels was not justified. Under no condition should these policies be used when the student has allegedly violated the code of conduct. Any student who believes that he/she has been unjustly treated within the academic process may proceed as far as necessary in the steps detailed below.
  - A. Appeal to the faculty member: The student is to submit a written appeal to the faculty member within 30 days after the start of the six week period following the six week period in which the alleged grievance occurred. The faculty member and the student are to discuss the problem. The faculty member will submit a written report outlining his or her decision to the student and director within ten working days of receipt of the student's written appeal.
  - B. Appeals to the Director: If a decision satisfactory to the student cannot be reached, the student may submit a written appeal to the Director. This is to be done within ten working days after the receipt of the written decision by the Assistant Director or the Director may meet with the student, faculty member, or Assistant Director to review the merits of the appeal. The Director will submit a written response outlining his or her decision to the student, faculty member, and Assistant Director within ten days of the last meeting.
  - C. If a resolution is not reached the student may submit a written complain to TWC.

### ■ **Arbitration & Mediation**

If any dispute should arise out of the Student's enrollment and attendance at the University, no matter what issues it involves or how either the Student or the University might describe, plead or style the dispute, both the Student and the University agree that they shall first make a good faith effort to resolve the dispute by participating in mediation with a neutral mediator and then, if the dispute is not resolved, it shall be submitted to binding arbitration under the Federal Arbitration Act, all as specified below:

- a. The mediator shall be selected from a list of approved mediators maintained by a court or bar association situated in the same community (the "Local Community") as the campus of the University which the Student is attending.
- b. If arbitration occurs, it shall be conducted at a convenient location within the Local Community, pursuant to the Commercial Arbitration Rules of the American Arbitration Association (AAA) by a single arbitrator selected from an AAA list in accordance with AAA selection rules.
- c. All allegations, claims and defenses, as well as any supporting information (including statements, testimony and documents), presented in mediation or asserted in arbitration shall be kept confidential by the parties and no disclosed outside of the mediation and arbitration proceedings except for disclosure to a party's counsel and consultants.
- d. All determinations as to the scope and enforceability of this arbitration provision shall be made by the arbitrator and not by a court.
- e. The arbitrator's award shall be final and binding on both parties, and may be filed for enforcement by either the Student or the University in any court having jurisdiction.

The University and the Student acknowledge that they are voluntarily and irrevocably electing individualized arbitration (that is, between University and Student and not as part of any class action or mass tort or similar joinder of claims) as the remedy for any unresolved dispute they may have, and the arbitrator in such proceeding shall not have authority to hear any class or mass arbitration or to award punitive damages, consequential damages or noneconomic damages. University and Student voluntarily and irrevocably waive any rights they may have to bring a lawsuit in any state or federal court of competent jurisdiction and to try their dispute before a judge or jury, including by means of a class action or mass tort or similar joinder of claims.

## **GRADUATION STATISTICS**

Please select Program Effectiveness Data from the front program web page

## **5 YEAR STATISTICS**

Please select Program Effectiveness Data from the front program web page

## **PLACEMENT STATISTICS**

Please select Program Effectiveness Data from the front program web page