GENERAL INFORMATION

Classes for new CT/MRI students begin every fall semester and run for 12 consecutive months. During the 12 month program, students participate in a structured rotation sequence through affiliated CT/MRI departments in Northeast Arkansas, Memphis, TN, and Southeast Missouri.

Students must provide their own transportation to the clinical affiliates. When determining educational costs, consideration should be given to this additional expense. Students are not compensated for clinical education hours.

The CT/MRI program is an equal opportunity educational program and does not discriminate based on race, color, age, handicap, or other unlawful factors.

IMMUNIZATION & HEALTH RECORDS

Once accepted into the program, students must provide documented evidence of vaccination and immunization for Hepatitis B and Varicella (chicken pox).

Students must be up-to-date on all vaccines required by the CT/MRI program clinical affiliates including TB skin tests, the flu vaccine, and HEPA mask fittings.

CONTACT INFORMATION

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ACCREDITATION:

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Chicago, IL 60606-3182
Tel: (312) 704-5300
Fax: (312) 704-5304
jrcert.org

EXPENSES

In addition to tuition and immunization costs, CT/MRI students will incur the following expenses:

1. All students in the College of Nursing and Health Professions must purchase malpractice insurance prior to rotating through clinical sites. The annual cost of this insurance is about $40.

2. The cost of textbooks will vary each semester, with a majority of the total cost occurring in the first semester of the professional program. Textbook costs for the first semester may be as much as $350. These texts are used throughout the program.

3. Uniforms costs are approximately $200, with dosimeter costs also estimated at $10 per year.

4. CPR and BLS certifications are required, and may charge a nominal fee.

5. Background checks are required for clinical students. This cost is between $50-$100. A drug screen is required for certain clinic sites, with a cost between $25-$45.

6. Students are required to purchase access to online clinical software for use in clinical courses. This is a one-time fee of approximately $100.

7. TB mask fittings are required. The fitting is available at A-State within the first few weeks of the fall semester. This is a one-time fee of approximately $25.

ASState.edu/College/CoNHHP/Departments/Medical-Imaging-Radiation-Sciences/
**CT/MRI SPECIALTY TRACK**

**MISSION**
The mission of the CT/MRI track is to prepare competent, entry level CT and MRI technologists who are able to function within the health-care community.

**GOALS**

**Goal:** Students will be clinically competent.

- Student Learning Outcomes:
  - Students will apply proper positioning skills.
  - Students will select proper imaging parameters.
  - Students will utilize radiation and magnetic field safety measures.

**Students will demonstrate communication skills.**

- Student Learning Outcomes:
  - Students will demonstrate written communication skills.
  - Students will use effective oral communication skills.

**Students will develop critical thinking skills.**

- Student Learning Outcomes:
  - Students will adapt imaging parameters for non-routine patients.
  - Students will critique images for diagnostic quality.

**Students will model professionalism.**

- Student Learning Outcomes:
  - Students will understand professional ethics.
  - Students will demonstrate professional conduct.
  - Students will understand the importance of life-long learning.

**WHAT IS COMPUTED TOMOGRAPHY?**

CT uses the rotation of one or more x-ray tubes, paired with multiple rows of radiation detectors, to image the body. Cross sectional anatomy images of the total body can now be accomplished in a matter of seconds! With this rapid production of high resolution images, CT is one of the most popular modalities used by today’s physicians. This high volume modality requires technologists to be technologically savvy, have an eye for detail, and be light on their feet. With busy non-emergent schedules combined with a normal influx of trauma patients, CT technologists are constantly moving.

**Ideal Traits for Today’s CT Technologists**

- Ability to work quickly
- Team player
- Attention to detail
- Love for computer technology
- Adrenaline junkie (trauma)

**WHAT IS MAGNETIC RESONANCE IMAGING?**

MRI uses a large magnet to manipulate, then image, the movement of hydrogen protons within the body. Individuals interested in studying and performing MRI exams typically enjoy daily mental stimulation, without the adrenaline rush or performance stressors found in more trauma oriented modalities. MRI safety is a key component for all radiology departments, so MRI technologists must be well versed in MR safety principles and diligent in the care of each patient, family, or staff member who enters the MRI suite. Interested individuals should check with program faculty to ensure no known contraindications exist prior to entering the MRI suite.

**Ideal Traits for Today’s MRI Technologists**

- Ability to work alone
- Attention to detail
- Love for computer technology
- Enjoyment of critical thinking/problem solving activities

**SELECTIVE ADMISSION REQUIREMENTS FOR SPECIALTY**

To be eligible to apply to the CT/MRI specialty track, students must:

- Have graduated or be currently enrolled in an accredited radiography program
- Have completed pre-requisite coursework
- Have no contraindications that would prohibit working in a CT or MRI suite

Applicants to the CT/MRI specialty track are selected by the Admissions Committee using the following criteria:

1. **Cumulative grade point average**
   - (20 points possible toward 107 maximum points)
2. **Selected course grades**
   - (20 points possible toward 107 maximum points)
3. **Interview**
   - (30 points possible toward 107 maximum points)
4. **Modality clinic evaluation form**
   - (33 points possible toward 107 maximum points)
5. **A-State students**
   - (4 points possible toward 107 maximum points)

**CT/MRI PROGRAM**

Completion of general education, selected coursework, radiography program courses, and CT/MRI specialty track coursework will lead to a Bachelor of Science in Radiologic Sciences (BSRS) degree and eligibility to sit for the American Registry of Radiologic Technologists (ARRT) certification exams in radiography, CT, and MRI.

**BSRS DEGREE HOUR SUMMARY**

<table>
<thead>
<tr>
<th>First Year Making Connections course</th>
<th>General Education Requirements</th>
<th>Major Requirements (Radiology program)</th>
<th>Emphasis Area Requirements (CT/MRI)</th>
<th>Required Support courses</th>
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| Total hours | 135 |

**CT/MRI PROFESSIONAL CURRICULUM**

Following Radiography Program courses, the following CT/MRI specialty track coursework will be completed:

**Fall**

- RS 4623 CT Instrumentation
- RS 4693 CT Procedures
- RS 4644 CT Clinical Education
- RSMR 4703 MRI Safety & Instrumentation
- RSMR 4712 Imaging Info Management*

**Spring**

- RSMR 4723 MRI Procedures I
- RSMR 4753 MRI Clinical Ed I
- RSMR 4803 MRI Physics I
- RSMR 4823 Data Acquisition & Processing

**Summer**

- RSMR 4733 MRI Procedures II
- RSMR 4763 MRI Clinical Ed II
- RSMR 4813 MRI Physics II
- RSMR 4833 Advanced MR Imaging

*Distance education courses may incur additional expenses for the student. Online courses are subject to fees determined by a third party administrator.