



**Central  
Arizona  
College**

# Radiologic Technology Program

---

ASSOCIATES IN APPLIED SCIENCE DEGREE

## **INFORMATION AND ADMISSIONS PACKET**

Kayla Davis MHA, RT(R)(ARRT)- Program Director  
CENTRAL ARIZONA COLLEGE | REVISED 4.25.2022

### **Radiologic Technology**

Radiologic Technology is a health care profession involving the use of ionizing radiation to generate diagnostic images in the diagnosis and treatment of disease. The radiographer is a critical member of the health care team who is called upon to render compassionate patient care, ensure safe radiation protection practices and apply technical knowledge in the operation of specialized imaging equipment. An imaging professional must be, above all, a caring individual who possesses the ability to work independently, exercise sound judgment and employ critical thinking skills. The field offers high growth opportunities and is constantly evolving through the application of computers and emerging technologies.

### **Employment Outlook**

According to the US Labor Department, employment of radiologic technologists is expected to increase by about 9 percent from 2020 to 2030, about as fast as the average for all occupations. As the population grows and ages, there will be an increasing demand for diagnostic imaging. With age comes increased incidence of illness and injury, which often requires diagnostic imaging for diagnosis. In addition to diagnosis, diagnostic imaging is used to monitor the progress of disease treatment. With the increasing success of medical technologies in treating disease, diagnostic imaging will increasingly be needed to monitor progress of treatment.

Although hospitals will remain the principal employer of radiologic technologists, several new jobs will be found in offices of physicians and diagnostic imaging centers. As technology advances many imaging modalities are becoming less expensive and more feasible to have in a physician's office.

In addition to job growth, job openings also will arise from the need to replace technologists who leave the occupation. Those with knowledge of more than one diagnostic imaging modality—such as CT, MR, and mammography—will have the best employment opportunities as employers seek to control costs by using multi-credentialed employees.

Demand for radiologic technologists can tend to be regional with some areas having large demand, while other areas are saturated. Technologists willing to relocate may have better job prospects.

Quite often, prior to graduation, students receive employment offers from the same health care organizations where they completed their clinical rotations. For others, the program offers a solid foundation to continue education in a specialty area of the radiologic sciences. Entry-level salaries, depending on type of practice, benefits, and other considerations, has a median pay of \$61,980 annually.

Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, Radiologic and MRI Technologists,  
at <https://www.bls.gov/ooh/healthcare/radiologic-technologists.htm> (visited April 19, 2022).

**Mission Statement**

To provide an intellectually stimulating and challenging environment where competency-based education in radiography is focused on the needs of the patient and intended to produce competent and progressive imaging professionals of the highest caliber.

In accordance with the Joint Review Committee on Education in Radiologic Technology, the mission statement is reviewed on a regular basis. Documentation is reflected in the meeting minutes of various committee and faculty forums.

**Goals and Student Learning Outcomes**

Goal: Graduates will be clinically competent.

Student Learning Outcomes: Students will demonstrate competency in radiographic positioning  
Students will demonstrate competency in radiation protection  
Students will demonstrate appropriate patient care.

Goal: Graduates will communicate in an effective manner.

Student Learning Outcomes: Students will demonstrate effective written communication skills.  
Students will demonstrate effective oral communication skills.  
Students will demonstrate effective communication skills with patients.

Goal: Graduates will apply critical thinking skills.

Student Learning Outcomes: Students will demonstrate image analysis competency  
Students will adapt to changing workloads and complete assignments on time.  
Students will demonstrate an ability to perform non-routine procedures.

Goal: Graduates will demonstrate professionalism

Student Learning Outcomes: Students will present a professional appearance in the clinical education setting.  
Students will accept constructive criticism and guidance in a manner to aid their professional growth.  
Students will conduct themselves in an ethical and professional manner.

### **Program Description**

The Associate of Applied Science Degree in Radiologic Technology is a 24-month program (three equal trimesters per year including summers) that prepares students for entry-level positions as radiographers. The program starts once per year in the Spring Semester. Students must complete 23 credits of general education requirements and 55 credits of major core courses.

The curriculum is designed in accordance with the Radiography Curriculum established by the American Society of Radiologic Technologists. Academic courses include radiographic positioning, radiation physics, principles of radiographic exposure, and other specialized topics. The program is designed around a model of classroom and laboratory instruction integrated with hands-on experience in a clinical setting that provides a thorough educational foundation and professional preparation to enter the workforce as an independent practitioner upon graduation.

The Radiologic Technology course of study is a demanding experience and involves a full-time commitment of up to 40 hours per week plus homework. Clinical obligations include the burden of travel. Although the program maintains clinical affiliations throughout the region and makes every effort to place students in clinical education settings located within a reasonable driving distance the potential exists that students may have to travel long distances to complete clinical assignments. Students must maintain a minimum of a 75% average to remain in the program. Students must be adequately prepared to meet the challenge and establish priorities prior to the start of classes.

Graduates of the program are eligible to:

1. Receive an AAS degree in Radiologic Technology
2. Sit for the American Registry of Radiologic Technologists examination (ARRT)
3. Apply for an Arizona license to practice radiography – CRT (Certified Radiologic Technologist)

### **Curriculum**

#### **General Education Requirements – Prerequisites**

**(Recommended to complete general education requirements prior to admission)**

(23 credits Total)

- Written Communications (3 credits)
- Mathematics (3 credits) -MAT121 Intermediate Algebra, Standard or higher course
- BIO201 Human Anatomy-Physiology I (4 credits)
- BIO202 Human Anatomy-Physiology II (4 credits)
- Oral Communications (3 credits)
- Social and Behavioral Science (3 credits)
- Arts and Humanities (3 credits)

#### **Prerequisite Courses (May be taken after Admission to Program)**

(3 credits total)

- Medical Terminology (3 credits)

## Major Course Sequence

### 1st Semester-Spring

- RAD100 Fundamentals of Radiologic Science and Health Care (1 credit)
- RAD110 Radiographic Positioning I (4 credits)
- RAD120 Principles of Radiographic Exposure I (3 credits)

### 2nd Semester-Summer

- RAD130 Patient Care in Radiologic Science (2 credits)
- RAD140 Practicum I (240-280 hours) (3 credits)
- RAD160 Radiographic Positioning II (4 credits)

### 3rd Semester-Fall

- RAD150 Radiation Physics I (3 credits)
- RAD170 Principles of Radiographic Exposure II (3 credits)
- RAD180 Practicum II (240-280 hours) (3 credits)

### 4th Semester-Spring

- RAD200 Practicum III (600-650 hours) (7 credits)

### 5th Semester-Summer

- RAD210 Radiation Physics II (3 credits)
- RAD230 Radiobiology and Radiation Protection (3 credits)
- RAD240 Practicum IV (360-390 hours) (4 credits)

### 6th Semester-Fall

- RAD250 Basic Pharmacology and Drug Administration (1 credits)
- RAD260 Radiographic Pathology (2 credits)
- RAD270 Advanced Imaging (2 credits)
- RAD280 Registry Review (3 credits)
- RAD290 Practicum V (360-390 hours) (4 credits)

## Total Degree Credit Hours

**(78 credits)**

**Applications for Admissions must include the following:**

- A. Application Check List - contained within the Info/Admissions Packet
- B. Application for Admission to the Radiologic Technology Program form – contained within the Info/Admissions Packet
- C. All relevant unofficial transcripts of completed general education requirements (must include letter grades)
  - Note:** If a student has attended more than one school, transcript copies should be obtained from the school where the courses were originally taken to include a letter grade because transferred credits do not include letter grades)
- D. Two letters of Recommendation – must be included with application packet (we are not accepting materials through the US mail at this time).
- E. Certificate of Attendance to Information Session (optional for 2 points)
- F. Personal Essay - Optional (Explanation of why you have chosen radiography as a career choice)

**Admissions**

Enrollment is limited and the selective admission process is **highly competitive**. Students must meet the minimum admission requirements of the program and those required for admission to Central Arizona College. Admission to the program is based on a point value system. Points are calculated by a formula related to grade point average and the amount of general education credits completed, residency, and other criteria. It is recommended that you complete the 23 credits of general education requirements before applying for admission to the program. Achieving a high level of success in the general education courses will improve a student's chance for admission to the program.

The prerequisite course requirement of Medical Terminology may be taken in the fall semester after a student is granted admission to the program. If a student has completed this prerequisite course requirement prior to admission, it does not have to be repeated.

**Application Time Frame**

Applications are accepted once a year, May 1<sup>st</sup> – June 30<sup>th</sup>. Applications should be submitted in person at the Superstition Mountain Campus – or – Mailed. Please address all applications to:

**Kayla Davis (Radiologic Technology)**

**805 S Idaho Rd.  
Apache Junction, AZ 85119**

**Additional Requirements: (After Admission)**

Additional requirements are completed after admission to the program. These include:

- Fingerprinting
- Health Care Provider Signature form

The program also utilizes an independent contractor to manage several of the program requirements including:

- Immunization Tracking
- Drug testing
- Criminal background check

**COST ESTIMATE FOR THE RADIOLOGIC TECHNOLOGIST PROGRAM**

Tuition	Major Core Courses approx.	\$4235
Liability Insurance	Estimated	\$50
Textbooks	Estimated	\$1000
Clinical Tracking Module	Estimated	\$50
Background check/drug screen	Estimated	\$140
Uniform and Shoes	Estimated	\$100
Physical Exam and Immunizations	<u>Estimated</u>	<u>\$100</u>
<b>Total Estimated Cost of Radiologic Technology Program</b>		<b>\$5675</b>
<b>Total Estimated Cost of General Education Requirements</b>		<b>\$2985</b>
<b>Total Combined Cost of General Education /Major Core Courses</b>		<b>\$8660</b>

\*Fees are subject to change by the Central Arizona Community Colleges Governing Board. All costs quoted are subject to change.

**Selective Admissions Point System** (This system is based on a total of 125 possible points.)

**Residency**

- A. Residency within Pinal County 10 pts
- B. Residency within the state of Arizona 5 pts
- C. Residency outside state or country 0 pts

**Cumulative Grade Point Average**

(pro-rated to number of general education requirements completed)

- A. 3.75 - 4.00 40 pts
- B. 3.50 –3.74 35 pts
- C. 3.25 –3.49 30 pts
- D. 3.00 - 3.24 25 pts

**Total required general education credits completed (see page 4)**

Credits earned equal 1 point

- A. 23 credits 23 pts

**Military**

- A. Veteran 5 pts

**Current CAC students**

- A. Completion of at least 12 credits of course work at CAC 8 pts

**Information Session**

- A. Attendance 2 pts

**Re-Application**

- A. Subsequent applications for admission 3 pts

**Advisory Referral**

- A. 5 points 5 pts

**Interview**

- A. Range 0-29 points 29 pts



### **Zero Tolerance Guidelines**

The Central Arizona College Radiologic Technology Program supports a Zero Tolerance Guidelines for the following behaviors:

1. Intentionally or recklessly causing physical harm to any person on the campus or at a clinical site, or intentionally or recklessly causing reasonable apprehension of such harm.
2. Unauthorized use or possession of any weapon or explosive device on the campus or at a clinical site.
3. Unauthorized use, distribution, or possession of any controlled substances or illegal drug for any purpose (i.e. distribution, personal use) on the campus or at a clinical site.
4. Any Radiologic Technology Program student engaging in this misconduct is subject to immediate dismissal from classes and disciplinary action as described in the Central Arizona College Student Handbook.

### **Health Declaration (After Admission)**

It is essential that radiologic technology students be able to perform a number of physical activities in the clinical portion of the program. At a minimum, students will be required to lift patients, stand for several hours at a time, and perform bending activities. Students who have a chronic illness or condition must be maintained on current treatment and be able to implement direct patient care.

The clinical experience also places students under considerable mental and emotional stress as they undertake responsibilities and duties impacting patients' lives. Students must be able to demonstrate rational and appropriate behavior under stressful conditions. Individuals should give careful consideration to the mental and physical demands of the program.

### **Immunizations (After Admission)**

Students are responsible for maintaining their own health records. The Radiologic Technology Program uses an online service to track immunization records. Students are responsible to be current with the immunizations mandated on their health declaration form. Copies of updates to immunization records must be submitted to the online tracking service for the student files.

### **Background Check/Drug Testing (After Admission)**

All students are required to obtain a background check and drug screen after being accepted into the program. Staff will assist the students to initiate the background checks and drug screens with our contracted background check provider. Only those students who have no discrepancy found on the background check and test negative on the drug screen will remain in the program.

### **Fingerprinting (After Admission)**

Fingerprinting is available through the CAC police department at the Signal Peak Campus.

### **Waiver of Licensure/Certification Guarantee**

Admission or graduation from the Central Arizona College School of Radiologic Technology Program does not guarantee ARRT registration or state licensure. Licensure, certification, and registration requirements and the subsequent procedures are the exclusive right and responsibility of the American Registry of Radiologic Technologists (ARRT) and the Arizona Medical Radiologic Technology Board of Examiners (MRTBE).

### **Criminal Violations**

Students must satisfy the requirements of the ARRT and Arizona Statutes, Rules and Regulations, independently of any college or program requirements for graduation. According to the ARRT, every candidate for certification must "be a person of good moral character and must not have engaged in conduct that is inconsistent with the ARRT Rules of Ethics," and they must "agree to comply with the ARRT Rules and Regulations and the ARRT Standards of Ethics." Certain types of convictions may make an applicant ineligible for registration. These documents are available for review in the office of the Program Director and on the ARRT website <https://www.arrt.org/earn-arrt-credentials/requirements/ethics-requirements>

Students are encouraged to disclose any issues related to the ARRT Rules of Ethics, the ARRT Rules and Regulations and the ARRT Standards of Ethics at the time of their admissions interview or prior to application. Failure to disclose prior to admission is grounds for withdrawal from the program. A charge or conviction or a plea of guilty or a plea of nolo contendere constitutes a conviction for ARRT purposes. Exceptions that do not need to be reported are:

- Offenses committed while a juvenile and processed in the juvenile court system
- Traffic violations that did not involve drugs or alcohol (speeding or parking ticket)
- Charges that were dismissed if there were no court conditions required
- Expunged cases (must have specific court documents attesting to the expungement)

### Application Check List

Applicant Name \_\_\_\_\_

**Note: Applications are only accepted May 1<sup>st</sup> – June 30<sup>th</sup> either in person or my mail.**

\_\_\_ Admissions Application

\_\_\_ Unofficial Transcripts (Must have all grades to calculate GPA)

\_\_\_ Two Reference Letters

\_\_\_ Info Session Certificate (optional)

\_\_\_ Student Essay (optional)

Additional Comments:

**APPLICATION FOR ADMISSIONS**

**PERSONAL** - Please Print or Type

Name:	(Last)	(First)	(Middle)
Address:	(Street)	(City, State)	(Zip Code)
Telephone Numbers:	(Home)	(Work)	(Cell)

**EDUCATION**

Name and Location of School	Dates Attended		Degree Awarded
	From Mo/Yr	To Mo/Yr	
High School			
College			

**EMPLOYMENT HISTORY**

Name and Address of Employer	Position	From Mo/Yr	To Mo/Yr	Reason for Leaving
1.				
2.				
3.				
4.				

Veteran Status \_\_\_\_\_ (circle one)    yes    no

Repeat Application \_\_\_\_\_ (circle one)    yes    no

**Please attach a short essay to explain your interest in the field of radiography (Attach pages as needed).**

**PLEASE READ CAREFULLY AND SIGN BELOW**

I certify that the information on this application is complete and accurate to the best of my knowledge. I understand that withholding information or giving false information may make me ineligible for admission and enrollment. I release from all liability or damages those persons, agencies, or organizations who may furnish information in connection with my application for admission. If accepted, I agree to read and abide by all school policies and procedures.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_