

# State Fair

## Community College

### Radiologic Technology

### Associate of Applied Science Degree

### Application

**Deadline to apply: March 1<sup>st</sup>**

This means all application materials must be received in the Radiology Department by 3:00 pm on March 1<sup>st</sup> or the 1<sup>st</sup> business day of March. If you are mailing your materials, it is highly suggested you mail them by February 15th to ensure timely arrival.

**Please submit all application materials to the address listed below:**

**ATTN: Radiology Department, Fielding 246**  
**State Fair Community College**  
**3201 West 16<sup>th</sup> Street**  
**Sedalia, MO 65301-2199**

State Fair Community College does not discriminate based on race, color, national origin, sex, disability, religion, sexual orientation, veteran status, or age in its programs and activities or in employment. The following persons have been designated to handle inquiries regarding the nondiscrimination policy: Director of Human Resources, Hopkins Student Services Center, (660) 596-7484, or Dean of Student and Academic Support Services, Hopkins Student Services Center, (660) 596-7393. The Hopkins Center is located on SFCC's Sedalia campus at 3201 W. 16th St. Sedalia, MO 65301. Inquires also may be directed to the U.S Department of Education, Office of Civil Rights at [OCR.KansasCity@ed.gov](mailto:OCR.KansasCity@ed.gov).

Interested persons may obtain information as to the existence and location of services, activities and facilities at State Fair Community College that are accessible to and usable by persons with disabilities by contacting the Access office, Yeater Learning Center, Room 159, SFCC, 3201 W. 16th Street, Sedalia, MO 65301, (660) 530-5832.

## Application for Admission Form RADIOLOGIC TECHNOLOGY PROGRAM

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SFCC Student ID

SFCC Email Address

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Last Name

First Name

Middle Name

--	--

Preferred Name

Other Names You Have Used

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(Area) Home Phone No.

(Area) Cell Phone No.

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Address – Street, Route, or Box Number

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City

State

Zip Code

### Has a regulatory authority or verification board ever:

- Denied, revoked or suspended your professional license, permit, registration, or certification, or
- Placed you on probation , under agreement, or under consent order; or
- Allowed voluntary surrender of your professional license, permit, registration, or certification; or
- Subjected you to any conditions or disciplinary actions by such an organization

YES

NO

### While attending and educational program to meet ARRT certification and registration requirements, were you ever suspended, dismissed, or expelled from that program?

YES

NO

**Please select one:**

- I have applied AND been accepted to State Fair Community College.
  
- I have applied AND been accepted to State Fair Community College BUT currently enrolled in courses at another college. Unofficial transcripts are included.

**If applying to more than one Health Science program, please select first choice:**

- Radiologic Technology program
- Diagnostic Medical Sonography program
- Dental Hygiene program

# **Radiologic Technology Program Application Checklist**

**\*\*\*If you are already a SFCC student skip Step One\*\*\***

*\*\*Please initial as each step is completed.*

## **Step One: Meet State Fair Community College (SFCC) Admission Procedures**

- Submit an online SFCC Application for Admission at [www.sfccmo.edu/admissions](http://www.sfccmo.edu/admissions). Students must be **fully admitted** to SFCC with all transcripts **received and articulated** before March 1.

## **Step Two: Meet SFCC Radiologic Technology Program Admission Requirements**

- Read the Radiology Technology Program, Program Information and meet the Essential Qualifications for the Radiologic Technology Program located at [www.sfccmo.edu/radiologic-technology](http://www.sfccmo.edu/radiologic-technology).
- Complete the ATI TEAS – AH (Allied Health) pre-entrance program exam with a competitive score prior to March 1<sup>st</sup>. This test is required for all students.
- Complete prerequisite courses by the end of the spring semester in which the student is applying
  - BIO 207 Human Anatomy with Lab – 4 credit hours with B or higher
  - BIO 208 Human Physiology with Lab – 4 credit hours with B or higher
  - MATH 110 Intermediate Algebra with Review (with a B or higher) (or)
    - MATH 112 Intermediate Algebra (or)
    - MATH 113 Mathematical Reasoning and Modeling (or)
    - MATH 114 Precalculus Algebra (or)
    - MATH 119 Statistical Reasoning
  - ENGL 101 English Composition I or ENGL 102 English Composition II – 3 credit hours with C or higher
  - HEOC 120 Medical Terminology – 3 credit hours with C or higher
- Have a cumulative **2.5 GPA** for all college level course work. A **2.75 GPA** total is required for all prerequisites and required general education courses. The above grades are a minimum requirement. GPA is checked at the end of the spring semester of the school year in which the student is applying. If two grades exist for a required course on the transcript the higher of the two grades will be used for the GPA computation. The GPA will be figured to the one hundredth position, such as 3.45 or 2.54, and not rounded beyond that point; for example, a 2.46 will not be rounded to 2.5.

## **Step Three: Communication with SFCC about Program Requirements and Application Process**

- Met with Navigator or Program Official (face to face, e-mail or via telephone) regarding program expectations and application process.
- **Submit application packet containing the following by March 1<sup>st</sup> or 1<sup>st</sup> business day of March.**
  - Application for Admission Form
  - Applicant Observation Form or Alternate Observation Activity (2021)
  - Essay (See updated information below Alternate Observation Activity)
  - Application Checklist with all steps initialed
  - Unofficial transcript if applicable

**ATTN: Spring 2021 SFCC Radiologic Technology Applicants  
Alternative Observation Activity and Updated Essay Instructions**

**Alternative Observation Activity**

Due to COVID-19 most medical facilities are not currently allowing students to complete observation hours. To accommodate this the SFCC Radiologic Technology program is offering an alternative observation activity for those students applying in spring 2021.

You do not need to complete the alternative activity if you have already completed all required observation hours within the past 18 months, and have not used those same observation hours in any previous application year. Simply submit the completed observation forms per the application instructions.

If you have not completed the required observation hours please complete the following activity and submit it in your application packet.

**Alternative Activity Instructions:**

1. Watch each of the provided videos in their entirety and answer the provided questions.
2. ***Within your application packet submit all answers*** in a clearly typed format with your name and student ID number in the top left corner.

**Video #1: Anatomical Terms – Drawn & Defined (Updated)**

<https://www.youtube.com/watch?v=kvHWnJwBkmo>

1. What is the term for a person standing upright, with arms at sides, palms forward, and feet together?
2. When describing anatomical position who's left and right are we using?
3. Define anterior and posterior.
4. The shoulder is \_\_\_\_\_ to the elbow. (proximal/distal)
5. If something is closer to the midline it is considered to be what?
6. A lengthwise cut through the body that creates two equal right and left halves would be termed what?
7. A horizontal cut through the body creates what type of plane?

**Video #2: The Skeletal System**

<https://www.youtube.com/watch?v=f-FF7Qigd3U>

1. How many bones are there is an adult skeleton?
2. How many bones are in the skull?
3. Connection points between cranial bones are known as what?
4. Holes in the skull that nerves, arteries, and veins pass through are known as what?
5. What is the only bone in the body that does not articulate with any other bone?
6. What are the two portions of intervertebral discs?
7. The spinal cord passes through what foramen?
8. What is special about the cervical spinous process?
9. Ribs 8-10 are known as what type of ribs?

10. The palm of the hand is made up of what?
11. How many tarsals are found in the foot?
12. What is another name for the big toe?

### **Video #3: The SKiNNY on the job: Radiologic Technologist**

<https://www.youtube.com/watch?v=IyAc3dPKf1Q>

1. How much is the Radiologic Technology field expected to grow over the next 10 years?
2. What is the salary range given in this video?
3. Name one modality that a Radiologic Technologist could move into through professional growth.
4. What did the technologist say is very important when working with a patient?

### **Video #4: Becoming a Radiologic Technologist – Essentia Health**

<https://www.youtube.com/watch?v=oBsFm9ljgOs>

1. What are some of the different rotations you can expect while in clinicals?
2. Why do we use barium in radiology studies?
3. What protects technologists during fluoro studies from the radiation?
4. What different body parts can be protected from radiation with special equipment?
5. What is the purpose of the crystals that are often given during an upper GI (UGI)?
6. Why do we have patients stand up and lay down for images during an UGI and esophagus?

### **Video # 5: Introduction to Medical Imaging and Radiation Therapy Modalities**

[http://media.mycrowdwisdom.com.s3.amazonaws.com/asrt/courses/RT101\\_2.1/index.html](http://media.mycrowdwisdom.com.s3.amazonaws.com/asrt/courses/RT101_2.1/index.html)

1. Who discovered x-rays and on what date?
2. What piece of anatomy was shown in the first radiograph?
3. Name another modality found in an imaging department.
4. A CT machine initially images in what body plane?
5. Today CT machines take about how long to acquire and reconstruct data?
6. Mammography images what specific anatomy?
7. When were the first digital mammography units approved in the U.S.?
8. Why is compression used in mammography?
9. Who should get a screening mammography?
10. In fluoroscopy what type of images are produced?
11. What are the two types of detectors used in fluoroscopy units?
12. What are two advantages to ceiling mounted fluoroscopy units?
13. What makes interventional radiology unique?
14. Does MRI use ionizing radiation?
15. What parts of the body is MRI useful in imaging?
16. MRI takes advantage of what element in the human body?

17. Why is safety of high concern in MRI?
18. DEXA/DXA is used in the diagnosis of what disease?
19. What anatomical sites are scanned during a DEXA/DXA?
20. What does Sonography use to produce images?
21. What are the two functions of the ultrasound transducer?
22. What does Nuclear Medicine use to treat and diagnose various diseases?
23. What is the radioactive source in Nuclear Medicine Imaging?
24. What is the most common study done in Nuclear Medicine?
25. What is the goal of Radiation Therapy?
26. Who else has a part in developing a treatment plan that is ultimately delivered by the Radiation Therapist?
27. What is the most common device used to deliver Radiation Therapy?

#### **Video # 6: Chest PA and Lateral Positioning**

<https://www.youtube.com/watch?v=sZWIFkatWAM>

1. Why do we use the PA position with the chest?
2. What is the SID used for a chest?
3. What should the patient do with their shoulders?
4. What is the central ray for a PA Chest?
5. How should the patient breath for a chest x-ray?
6. Which side do we place next to the IR for a Lateral Chest?

#### **Video #7: X-Ray Positioning for Thoracic Spine**

<https://www.youtube.com/watch?v=G80MVhHUsw8>

1. What is the SID used for an AP T-Spine?
2. Where would we center the light field for an AP T-Spine?
3. What should the patient do to bring the spine closer to the table/IR?
4. What side does the patient lie on for the Lateral T-Spine?
5. How do you position in “true lateral” position?
6. What anatomy corresponds to T7?
7. Define breathing technique.
8. Why do we perform a Swimmers’ View?
9. What degree of angulation is used on a Swimmers’ View?
10. Where should the marker be placed for the Lateral and Swimmers’ View?

#### **Video #8: AP/Lat Forearm**

<https://www.youtube.com/watch?v=D4UnXXTN3W4>

1. Which joints must be included on an AP/Lateral Forearm?
2. For a “true AP” position, the epicondyles of the humerus should be \_\_\_\_\_ to the IR.

3. Where should the marker be placed?
4. The elbow should be flexed to what degree for a Lateral Forearm?
5. For a “true lateral” position, the epicondyles of the humerus should be \_\_\_\_\_ to the IR.

**Video #9: AP, Both Obliques and Lat Knee**

<https://www.youtube.com/watch?v=LPHmlYMOUc>

1. When the ASIS to tabletop measurement is less than 19 cm what angle is used on AP and Oblique Knee?
2. When the ASIS to tabletop measurement is more than 19 cm what angle is used on AP and Oblique Knee?
3. What CR angulation was used on the patient in the video?
4. For the AP Knee the femoral condyles should be placed \_\_\_\_\_ to the IR.
5. Where should the central ray enter for an AP Knee?
6. How much is the lower extremity rotated for both Obliques?
7. The Medial Oblique Knee will show what open articulations?
8. The knee should be flexed how many degrees for the Lateral Knee?
9. What angulation is used on a Lateral Knee and why?

**Video #10: AP Pelvis**

<https://www.youtube.com/watch?v=6vl2PVneSPY>

1. What position should the patient be in for AP Pelvis?
2. Is there an angle being used?
3. Where should the central ray enter for an AP Pelvis?
4. What should be done to the lower extremities for an AP Pelvis?



## **Updated Essay Instructions**

The Admission Essay instructions have been updated for **all** spring 2021 applicants.

### **Please use the following instructions as you prepare your admission essay:**

Submit a 2-page typed essay with your SFCC student ID# in the top left-hand corner. Your name should not be used anywhere in the essay. The Essay should be double spaced, use 12- point Times New Roman font, and have 1-inch margins. The essay should utilize correct grammar, medical terminology, punctuation, and spelling.

The essay should include, but is not limited to, the following:

1. Motivation for pursuing this health science career (Should include discussion of your observation or observation alternative experience.)
2. Strategy for successfully completing a rigorous full-time health science program requiring an obligation of *at least* 40 hours each week. (Components of success include managing personal and family challenges, time management, school/work balance, successful completion of clinical rotations, transportation, and financial commitments.)
3. Career/professional goals post-graduation

The essay is an important component of the application process as many of the program classes include written assignments; therefore, strong writing and communication skills are important. Communication is extremely important for healthcare professionals because they must be able to communicate with patients as well as other members of their team such as technologists, radiologists, and nurses.

Applicants are encouraged to utilize the Academic Success Center. Students may send their papers to the tutors via email. Tutor contact information may be found at:

<https://sfccmo.libguides.com/c.php?g=343723&p=3937281>

The tutors may not be able to help with your sonography related wording, but they would be able to help with writing mechanics, such as critical thinking, organization, and professionalism, as well as sentence structure, grammar, spelling, and clarity.

## Applicant Observation Form RADIOLOGIC TECHNOLOGY PROGRAM

**To the applicant:** Observe a minimum of 8 hours with a Registered Radiologic Technologist (RT) in one or more clinical sites and use a new form for each site (make copies of this form as necessary). It is recommended that students observe more than 8 hours and in more than one clinical setting. Students should contact the site in advance and schedule the observation. Please dress appropriately for your observation. Take this form with you and give to the RT to complete, sign, and seal in an envelope with the RT's signature on the seal to verify your observation hours. Submit the sealed envelope with your application packet. If student is employed at this facility, a maximum of 8 hours observation at this site may be counted.

\_\_\_\_\_   
Dates of Observation

\_\_\_\_\_   
Total # of Hours Observed

\_\_\_\_\_   
Student Name (please print)

\_\_\_\_\_   
Facility Name

\_\_\_\_\_   
City/State

**To the Radiologic Technologist:** As an admission requirement to the SFCC Radiologic Technology Program, applicants are required to observe an RT for a minimum of 8 hours in one or more clinical settings. If the information listed above for the prospective student is correct for today's observation, please complete the section below, sign the form and return it to the student in a **sealed envelope with your signature across the seal** to ensure confidentiality. Envelopes with broken seals and/or missing signatures will not be accepted.

Type of exams that the student observed at this facility on the above date(s):

\_\_\_\_\_ Computed Radiography

\_\_\_\_\_ Direct Capture

\_\_\_\_\_ Surgery

\_\_\_\_\_ Fluoroscopy

\_\_\_\_\_ Contrast Study

\_\_\_\_\_ Trauma

\_\_\_\_\_ Portable

\_\_\_\_\_ CT

\_\_\_\_\_ MRI

\_\_\_\_\_ Pediatrics

\_\_\_\_\_ Geriatrics

\_\_\_\_\_ Pain Clinic

Printed name of observed RT: \_\_\_\_\_

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

Did the student present himself or herself in a professional manner? \_\_\_\_ Yes \_\_\_\_ No

Thank you for sharing your time and expertise. Please complete the comment box below or contact our office if you have further comments regarding this applicant.

Additional comments about this applicant:

State Fair Community College  
April Young, Program Director  
660-596-7403

### *Selection Process*

Students in the Radiologic Technology program are admitted to the college on the same basis as other students, but admission to the college does not ensure admission into the Radiologic Technology program. The Admissions Committee may be comprised of the Program Director, Clinical Coordinator, members of the advisory committee and possibly other college personnel may evaluate students for the class. Candidates will be evaluated based on a point scale. Points will be awarded as described below:

<b>Criteria</b>	<b>Formula for calculating points</b>	<b>Points Possible</b>
GPA in pre-req. and gen ed. courses	$GPA \times 100/4.0$	100
ATI TEAS	Score from exam	100
Essay	Avg. score	50
Health Science MMI's	Avg. score	50
<b>Total</b>		<b>300</b>

*Students who were selected as alternates for the previous year's class and completed the entire application process will be awarded 5 points.*

All applicants will be notified of their status via SFCC student email by **June 1<sup>st</sup>** or first business day of June. Please do not contact the program or Navigator to request your status prior to June 1<sup>st</sup>. All accepted or alternate applicants must return the acceptance notification form by the deadline indicating acceptance or decline of the offer as a class member or alternate. Please be sure you have a current address, email, and phone number in the mySFCC system on the My Stuff tab.

We cannot offer admission to all the qualified applicants. Our enrollment is limited to 18 students. Only students meeting the minimum requirements will be presented to the Admissions Committee. Final selection will be made by the Admissions Committee and the 18 applicants with the highest total scores will be selected for the class. The following information may be evaluated during the selection process: GPA in prerequisite and general education courses, oral communication skills, written communication skills, professionalism, critical thinking ability, motivation for the profession, commitment to completing the program, career and professional goals, and realistic expectations.

The information above is directly related to the program's mission, vision and goals. Every effort is made to insure the selection process is fair and equitable to all applicants. The selection process strives to achieve a well-rounded assessment of the student as a whole.

## Post-Application Submission Program Admission Checklist

- Applicants will be notified within two weeks of application deadline about their eligibility status. Please do not contact SFCC about acceptance into program. We will contact you **via your SFCC student email**. Upon invitation, attend the Health Science MMI session held in April. Students invited to the multi mini interviews will receive a letter **via SFCC student email** with a specific date and time. Students who have been invited to the Zoom MMI's must RSVP and participate in their session, non-participation will result in the loss of 50 points.
  
- Satisfactory background check. (background check is completed after admission to program). Any applicant who has been convicted of felonies and/or misdemeanors must discuss this matter with the Radiologic Technology Program Director.
  
- Negative drug screening (drug testing is given after admission to program)
  
- Completion of immunization requirements
  
- Program orientation/bookstore day(s)

Final decision of admission to the program will occur when the above criteria have been met and completed, and reviewed by the Radiologic Technology Admissions Committee.