



RADIOLOGIC TECHNOLOGY PROGRAM Information and Application Process

Affiliated with:

Lee Memorial Hospital
Cape Coral Hospital
Lee Memorial Healthpark
Fawcett Memorial Hospital
NCH Health Systems
NCH Imaging
Physician's Regional Medical Center
Gulf Coast Medical Center
Lehigh Regional Medical Center

Subject to Change

Revised: 1-2022

FLORIDA SOUTHWESTERN STATE COLLEGE
SCHOOL OF HEALTH SCIENCES
RADIOLOGIC TECHNOLOGY PROGRAM

INFORMATION/APPLICATION

Thank you for your interest in the Radiologic Technology Program at Florida SouthWestern State College. The purpose of this packet is to provide information about the FSW Radiologic Technology Program. Information contained within this document subject to change.

PROGRAM PURPOSE

The purpose of the Florida SouthWestern State College Radiologic Technology Program is to provide a nationally accredited, high-quality, Radiologic Technology learning experience.

PROGRAM MISSION

Recognizing the worth and dignity of the individual and society's need for educated radiographers, the Program's mission is to strive for excellence through innovation and continuous improvement as it provides:

- Post-secondary career-oriented courses which provide students with marketable skills and expertise in Radiologic Technology.
- Courses transferable for continuation of undergraduate studies.
- Courses which enable students to enrich their lives socially, culturally, and intellectually.
- Counseling to assist individuals toward continuation of undergraduate studies, or job placement.
- Leadership as a medical imaging educational resource in serving the diverse and developing needs of the community of interest.

PROGRAM GOALS

Goal 1: Students will be able to perform as an entry-level radiographer.

Goal 2: Students will demonstrate critical thinking and problem solving skills.

Goal 3: Students will effectively communicate with patients and staff.

Goal 4: Students will understand the value of professional development and life-long learning.

PROGRAM EFFECTIVENESS GOALS

- Graduates will pass the national certifying examination.
- Graduates will find employment in the field.
- Graduates will indicate overall satisfaction with the program.
- Students starting the program will complete the program.
- Employers will indicate satisfaction with graduates.
- Graduates will be clinically competent.

PROGRAM OBJECTIVES

Following successful completion of the program, the graduate will be able to:

- Apply knowledge of anatomy, physiology, positioning, and radiographic technique selection to accurately demonstrate anatomical structures on a radiograph or other image receptor.
- Determine exposure factors to achieve optimum radiographic technique with minimum radiation exposure to the patient.
- Evaluate radiographic images for appropriate positioning and image quality.
- Apply the principles of radiation protection to the patient, self, and others.
- Provide patient care and comfort.

- Recognize emergency patient conditions and initiate lifesaving first aid and basic life-support procedures.
- Detect and report equipment malfunctions and know the safe limits of equipment operation.
- Exercise independent judgment and discretion in the technical performance of medical imaging procedures.
- Provide patient / public education related to radiologic procedures and radiation protection/ safely.
- Describe the basic components of a quality assurance program for diagnostic radiology.
- Demonstrate knowledge and skills relating to verbal, nonverbal, and written medical communication in patient care intervention and professional relationships.

Program Design

The program is designed to develop compassionate and competent professional radiographers. This is accomplished by completing didactic education requirements and clinical practice at affiliating hospitals. All didactic courses are held on the Thomas Edison (Lee County) campus and clinical internship is held in the Collier, Lee and Charlotte County hospitals and imaging centers. Time spent in the hospital typically 8 hours per day, two to three days per week (depending on the semester). Training and experience are provided in routine and special radiographic imaging procedures. The program is fully accredited, and its graduates are eligible to take the national certification examination offered by the American Registry of Radiologic Technologists and meet State of Florida licensure requirements.

Program Effectiveness Data

Annually, the program gathers, reviews, and publishes data that are intended to help determine its effectiveness. These effectiveness data can be found on the program's web page:

<https://www.fsw.edu/academics/programs/asradiologictechnology>. Additionally, the program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT) and the program's effectiveness data and other program information is published on their website:

<https://www.jrcert.org/programs/florida-southwestern-state-college/>.

Contact Information:

Joint Review Committee on Education in Radiologic Technology

20 North Wacker Drive, Suite 2850

Chicago, IL 60606-3182

312-704-5300

mail@jrcert.org

www.jrcert.org

Admissions / Check List

The Radiologic Technology Program is a selective, **limited-access** admissions program. Please follow this checklist for admission selection:

1. _____ High School Graduate
2. _____ Complete the **College Admission Criteria**. Includes: Florida SouthWestern State College application, **official copies of all transcripts**, and an application fee. See College website for details.
3. _____ Complete all necessary Developmental Courses prior to the start of the Program in the fall semester.
4. _____ **Successfully pass BSC 1085C or BSC 1093C (Anatomy & Physiology I) and MAC 1105 (College Algebra) with a grade of C or higher.**
5. _____ Complete the Radiology Program on-line application. This must be done between January 15th and April 30th. The deadline for application is midnight APRIL 30th. No applications will be accepted after this date.
6. _____ A **\$15.00** Rad Tech Program application fee must be paid. The program office **WILL NOT ACCEPT** any payment of fees.
7. _____ Program officials will perform a records check (Phase I) on all complete applications during the first two weeks of May.
8. _____ Interview/Testing – an interview with a short, general knowledge quiz (Phase II) will be required. This is held in late May or early June. You will be contacted for the interview date and time.
Attendance at the interview is required. You will need to bring a professional resume to the interview.
9. _____ Background Check – Students are required to provide an official criminal Background Check and drug screening to the Program. Additional information will be provided before the interview.
10. _____ Program Acceptance – Acceptance is determined by the highest Total Points (Phase I + Phase II) and a cleared background check and drug screen. Acceptance is communicated by e-mail and usually occurs in mid to late June. A student is expected to follow instructions regarding class registration. If a student does not register by the required deadline, another student shall take the vacated position.
11. _____ Health Report – once accepted, students are asked to furnish the program office with a completed immunization record and health evaluation certified by a physician. This form documents the student is mentally and physically able to perform the typical duties of a radiologic technologist in the hospital setting. Students are not permitted to attend clinical practicum courses at affiliate hospital without this health certification.
12. _____ Program Orientation – a **MANDATORY** program orientation meeting is held in June or July. This encompasses a full day at which time clinical assignments are made and the students receive important information.

Criminal Background Check

Required for applicants who are accepted into the Radiologic Technology Program

Each applicant must provide the program with a criminal background check through CastleBranch. The background check must be completed prior to acceptance into the program. In addition, each student will be required to have a drug screening prior to program acceptance. This criminal background screening ensures consistency with the requirements of Chapter 435, Florida Statutes, by health care agencies with which Florida SouthWestern State College has clinical affiliation agreements.

If a student is arrested for a felony or misdemeanor while enrolled in the program, he or she is required to immediately report the arrest with any subsequent legal proceedings to the Program Director. This report must include any official court documents and a written explanation of the circumstances concerning the incident. Failure to inform the Program Director in a timely manner may result in disciplinary action up to and including dismissal from the program.

Applicants with criminal records are forewarned that the Florida Department of Health, Bureau of Radiation Control, requires any applicant who has ever been convicted or found guilty of a felony, regardless of adjudication, to explain the circumstances. The same is true for other states with licensure statutes as well as the American Registry of Radiologic Technologists. These individuals will need to gain clearance from these

agencies before they are allowed to take state licensure and national certification examinations that are usually required for employment.

Criminal History Findings

Any applicant or enrolled student who has been found guilty of, regardless of adjudication, or entered a plea of nolo contendere, or guilty to, any offense under the provisions of Florida Statutes or under similar statutes of another jurisdiction may be disqualified from admission or continued enrollment in the Radiologic Technology Program.

Those offenses include:

- Murder
- Manslaughter
- Vehicular homicide
- Killing of an unborn child by injury to the mother
- Assault, if the victim of the offense was a minor
- Aggravated assault
- Battery, if the victim of the offense was a minor
- Aggravated battery
- Kidnapping
- False imprisonment
- Sexual battery
- Prohibited acts of persons in familial or custody authority
- Lewd and lascivious behavior
- Arson
- Theft, robbery, and related crimes, if the offense is a felony
- Fraudulent sale of controlled substances, only if the offense was a felony
- Incest
- Abuse or neglect of a disabled adult or elderly person
- Exploitation of disabled adult or elderly person
- Aggravated child abuse
- Child abuse
- Negligent treatment of children
- Sexual performance by a child
- Alcohol or drug offenses which were a felony, or if the offense involved a minor
- Offenses indicating unfitness to serve as a health care professional

Health Record / Ability to Meet Technical Standards

A completed medical health form and self-assessment of Program Technical Standards must also be submitted and approved by the Program Director prior to admission to clinical rotations. This health record will contain results from a physical examination and laboratory tests including immunization records.

Radiologic Technology students who do not meet the standards of good physical and mental health, as required by clinical facilities for safe patient care, may reapply and be considered for application to the Radiologic Technology Program after resolution of the health problem. Additionally, student drug screens, criminal history reports, and medical records, when submitted, will become the property of Florida SouthWestern State College, and will not be available for copying or for use to meet the requirements of outside employers or other agencies/persons. Students who are out of their program for six months or more must submit new records.

Appeal Process

If a review of a criminal background check or a medical health report deems an applicant or student ineligible for admission or continuation in the Radiologic Technology Program, an appeal can be filed. The College's published appeal process is to be followed as found in the current *Catalog* under "Student Rights and Responsibilities".

Program Performance Standards

In order to provide care to patients in the clinical courses of the program, radiography students should be able to:

- Lift more than 30 pounds routinely.
- Push and pull routinely.
- Bend and stoop routinely.
- Kneel or squat routinely.
- Have full use of both hands and wrists.
- Adequately view radiographs including density, contrast, and sharpness distinctions.
- Work standing on their feet 80 percent of the time.
- Work compassionately and effectively with the sick.
- Assist patients on and off examining tables.
- Communicate effectively with patients and staff.

Selection Process

Applicants are selected for admission based upon overall grade point average (GPA), Math/Science GPA, and documented college credit hours received. An interview and program testing are required. The applicant earns admissions points from the above categories. Those applicants with the highest number of points are accepted.

For further information, please contact the Radiologic Technology Program Advisor at 239-985-8316 or 1-800-749-2322 ext. 1816.

Typical Questions and Answers

1. What will the program prepare me to do?

The program prepares individuals to become Radiologic Technologists specializing in Radiography. These medical imaging specialists are sometimes referred to as X-Ray Technologists or Radiographers.

2. When are students admitted to the program?

During the summer proceeding the Fall Semester of each academic year.

3. When is notification given of acceptance or non-acceptance to the program?

Notification e-mails of the status of each applicant will be sent around mid-June directly from the program office. Alternates are selected as others may decline their seats.

4. Does the program keep a "waiting list?"

No. Individuals not accepted for a class must re-apply to the program to be considered for the next year.

5. What is the minimum length of the program?

Two years / 22 months (summer sessions included). Please see attached curriculum schedule.

6. Will I be participating in a hospital or other health agencies as part of my course work?

Yes, beginning in the first semester and continuing throughout the program, you will be participating in a "Clinical Internship". This internship is **unpaid** and will require that you are at the hospital or health agency for eight hours each scheduled clinical day. During this internship you will be performing

radiographic procedures on real patients with the guidance of Registered Technologists. You will need to be able to work with needles, body fluids including blood, surgical procedures, traumas, etc. You will be called upon to transport patients, which includes heavy lifting, and reaching.

7. What courses could I take while waiting for program admission?

All non-RTE courses can be completed prior to or during the program. It is required that MAC 1105 (College Algebra) and BSC 1093C (Anatomy & Physiology I) be completed before applying to the program. It is important to consult a Radiologic Technology Program faculty member for additional advisement. Phone 239-489-9110.

8. What is the cost of the program?

Fees are charged per credit hour taken. At this printing, Florida residents pay \$113.36 per credit hour. Non-residents pay \$432.63 per credit hour. The complete curriculum for the Radiologic Technology Program is 77 credit hours. Additional costs include insurance, books, uniforms, and lab fees. Program graduates will need to apply to the American Registry of Radiologic Technologists for national certification testing, and to the State for licensing. Approximate total cost: Florida resident = \$13,000, non-resident = \$38,000. The student is responsible for housing, meals, transportation, etc.

9. At what time of the day are classes offered?

Didactic (classroom) courses are generally held during the mornings and early afternoons. Only general education requirements may be taken during the evenings. Clinical hours are 8 hours per day and range from 2 days per week the first semester to 4 days per week the final semester.

11. Can I stay in my home area for classes and clinical assignments? All classroom courses are held on the Florida SouthWestern State College Lee County campus. Program administrators make hospital clinical assignments in Charlotte, Lee and Collier county hospitals. Students may be assigned to hospitals in their home communities or hospitals in adjacent counties to their home communities.

12. Must I take the Radiologic Technology courses in the sequence in which they are listed in the curriculum?

Yes. In addition, each course must be passed with a grade of "C" or better before the student may advance in the program. All courses are offered only once a year during the semester they are shown in the curriculum. Advisement for course registration each semester is available.

13. What salary range can I expect as a graduate?

A recent graduate radiographer in the Lee, Collier and Charlotte County area may start at between \$44,000 and \$60,000/year.

14. Is a health report including immunization history required to enroll in the Radiologic Technology Program?

Yes. Those students that are accepted into the Program must submit a health report signed by a medical officer indicating that he/she is in a state of physical and mental health that will allow safe performance of patient care activities while enrolled.

15. Is CPR certification required?

Yes. Students enrolled in the Program must show evidence of CPR, American Heart Association – HealthCare Provider certification before the beginning of the program.

16. Can a criminal record prevent a program graduate from taking the national certifying examination?

Yes. A previous felony conviction may disqualify a candidate from the certification/licensure process. Typically, all civil rights must be restored before one is eligible to take the Registry Examination given by

the ARRT. For further information, visit the American Registry of Radiologic Technologists website at www.arrt.org.

17. What provisions are made for students that become pregnant while enrolled in the program?

The declaration of pregnancy is voluntary. If the student does decide to declare her pregnancy, the following will occur:

- The student communicates to the Radiation Safety Officer the change in her health status to facilitate the protection of her radiation sensitive embryo.
- The Radiation Safety Officer initiates a counseling sheet indicating the communication of radiation protection concepts to the student. The student indicating her understanding of those concepts signs this counseling sheet.
- Counseling concepts:
 - Dose equivalent limit has changed to 0.5 rem, or 5 mSv during the gestation period.
 - Student is asked to wear film badges at both the neck and abdomen regions.
 - Student is reminded to apply the cardinal principles of radiation protection to minimize the fetal dose.
 - Student is expected to continue to practice in her assigned clinical area.
 - Clinical competencies, objectives, and attendance policy will remain unchanged.
 - Student has the option of withdrawing from the program and re-entering at the beginning of the next semester in which her unfinished courses are offered.
- At any time, a student may choose to rescind her declaration of pregnancy (undeclared). If she chooses to do so, it must be in writing to the Radiation Safety Officer.

Florida SouthWestern State College Radiologic Technology Program (77 Credit Hours)

(January, 2022 – Subject to change)

Prerequisite Courses:

MAC1105	College Algebra	3
BSC 1085C	Anatomy and Physiology I with Lab	<u>4</u>
		7

Required General Education Courses and Electives

BSC 1086C	Anatomy and Physiology II with Lab	4
ENC 1101	Composition I	3
PSY 2012	Introduction to Psychology	3
_____	Core Humanities Elective	3
_____	Computer Science Elective	<u>3</u>
		16

First Year, Fall Semester

RTE 1000	Introduction to Radiography and Patient Care	3
RTE 1001	Radiographic Terminology	1
RTE 1503	Radiographic Positioning I	4
RTE 1503L	Radiographic Positioning Lab (Clinical)	2
RTE 1418	Principles of Radiographic Exposure I	<u>3</u>
		13

First Year Spring Semester

RTE 1613	Radiographic Physics	4
RTE 1513	Radiographic Positioning II	4
RTE 1804	Radiology Practicum I	<u>3</u>
		11

First Year, Summer A Term (simultaneously with first 6 weeks of Su C)

RTE 1457	Principles of Radiographic Exposure II	2
RTE 1523	Radiographic Positioning III	<u>3</u>
		5

First Year, Summer C Semester (12 weeks)

RTE 1814	Radiology Practicum II	<u>3</u>
		3

Second Year, Fall Semester

RTE 1573	Radiologic Science Principles	3
RTE 2563	Special Radiographic Proc./Sectional Anat.	3
RTE 1824	Radiology Practicum III	<u>3</u>
		9

Second Year, Spring Semester

RTE 2782	Radiographic Pathology	2
RTE 2385	Radiation Biology/Protection	2
RTE 2473	Quality Assurance	2
RTE 2834	Radiology Practicum IV	<u>3</u>
		9

Second Year, Summer A Term (6 weeks)

RTE 2061	Radiologic Technology Seminar	2
RTE 2844	Radiology Practicum V	<u>2</u>
		4

TOTAL 77

FLORIDA SOUTHWESTERN STATE COLLEGE
RADIOLOGIC TECHNOLOGY PROGRAM
CRITERIA FOR ADMISSION
 (Subject to Change Without Notice)

BSC 1093C (Anatomy & Physiology I) and MAC 1105 (College Algebra) must be completed with a grade of C or better before a student is eligible for acceptance into the program. Spring semester grades are accepted even though the grades are released after the application deadline.

Admission into the Radiologic Technology Program is a simple process. Phase I evaluates applicants according to the number of points earned through: cumulative grade point average, math/science grade point average, and number of credit hours earned by the end of the spring semester. Phase II evaluates the applicants using an interview and program testing. Only those within a specified range of Phase I points are interviewed. Those with the highest total points from Phases I and II are placed in the program in rank order.

Phase I: Maximum Points: 57

OVERALL GPA		MATH/SCIENCE GPA		Previously Taken Gen Ed Courses* NOTE: These courses may be taken during the 22-month program	Educational Experience Multiplier X Overall GPA Points (Point Range: 0 – 6)
GPA	POINTS	GPA	POINTS	COURSE	Pts
4.00-3.90	20	4.00-3.90	25	BSC1094C	2
3.89-3.80	19	3.89-3.80	24	ENC1101	1
3.79-3.70	18	3.79-3.70	23	PSY2012	1
3.69-3.60	17	3.69-3.60	22	HUMANITIES ELECTIVE	1
3.59-3.50	16	3.59-3.50	21	COMPUTER ELECTIVE	1
3.49-3.40	15	3.49-3.40	20		
3.39-3.30	14	3.39-3.30	19		
3.29-3.20	13	3.29-3.20	18		
3.19-3.10	12	3.19-3.10	17		
3.09-3.00	11	3.09-3.00	16		
2.99-2.90	10	2.99-2.90	15		
2.89-2.80	09	2.89-2.80	14		
2.79-2.70	08	2.79-2.70	13		
2.69-2.60	07	2.69-2.60	12		
2.59-2.50	06	2.59-2.50	11		
2/49-2.40	05	2/49-2.40	10		
2.39-2.30	04	2.39-2.30	09		
2.29-2.20	03	2.29-2.20	08		
2.19-2.10	02	2.19-2.10	07		
2.09-2.00	01	2.09-2.00	06		
<2.00	00	<2.00	00		

PHASE II:

Interview: 50 points possible

Aptitude Test: 20 points possible

Total Phase II: 70 points possible

Semester Hrs	X
110+	0.30
110 – 109	0.29
90 – 99	0.28
80 – 89	0.27
70 – 79	0.26
60 – 69 (AA/AS)	0.25
50 – 59	0.20
40 – 49	0.19
30 – 39	0.18
20 – 29	0.17
11-19	0.16

PHASE II:
Interview: 50 points possible
Aptitude Test: 20 points possible

Total Phase II: 70 points possible

*Although not required for program admission, for those students who have taken some or all of the required general education courses, points are awarded toward program acceptance for courses successfully completed.

Overall GPA Points: _____
 Math/Sc. GPA Points: _____
 Gen Ed Courses Points: _____
 Edu. Exper. Points: _____
 Phase I Sub Total: _____

Interview Points: _____
 Testing Points: _____
 Phase II Sub Total: _____

Total Points (Phase I + Phase II): _____

RADIOLOGIC TECHNOLOGY

(Associate in Science Degree Program)

The Radiologic Technologist is an allied health professional who combines patient care procedures with an in-depth knowledge of human anatomy and proficient utilization of medical imaging equipment. The technologist's goal is to produce diagnostic images of the human body with minimum radiation exposure at a level of proficiency that will cause the least discomfort to the patient.

The Radiologic Technology Program is twenty-two months of full-time study. It includes classroom courses and extensive clinical laboratory experience in departments of radiology at participating clinical affiliates.

The Joint Review Committee on Education in Radiologic Technology nationally accredits the program. Graduates may apply for the examination of the American Registry of Radiologic Technologists (ARRT) for national certification and subsequent licensure by each individual state.

The program has limited enrollment. A freshman class begins each Fall Semester with classes taught on the Lee County campus. Applicants must meet specific application criteria, including an April 30th program application deadline.

Students are required to maintain a 2.0 grade point average in each Radiologic Technology (RTE) course to progress in the program curriculum. Each core course must be taken in sequence. A minimum of 77 credit hours with a 2.0 cumulative grade point average is required for graduation.

Application Deadline: April 30

PREREQUISITE COURSES

MAC1105 College Algebra (3 cr.)

BSC 1093C Anatomy and Physiology I (4 cr.)

GENERAL EDUCATION REQUIREMENTS

ENC 1101 Composition I (3 cr.)

PSY 2012 General Psychology (3 cr.)

BSC 1094C Anatomy and Physiology II (4 cr.)

Core Humanities Elective (3 cr.)

ELECTIVES

Computer Science Elective (3 cr.)

Total 23 Hours

CAREER CORE REQUIREMENTS:

RTE 1000 Introduction to Rad & Patient Care (3 cr.)

RTE 1503 Radiographic Positioning I (4 cr.)

RTE 1503L Radiographic Positioning I Lab (2 cr.)

RTE 1613 Radiographic Physics (4 cr.)

RTE 1418 Principles of Radiographic Exposure I (3 cr.)

RTE 1513 Radiographic Positioning II (4 cr.)

RTE 1804 Radiology Practicum I (3 cr.)

RTE 1457 Principles of Radiographic Exposure II (2 cr.)

RTE 1523 Radiographic Positioning III (3 cr.)

RTE 1814 Radiology Practicum II (3 cr.)

RTE 1573 Radiologic Science Principles (3 cr.)

RTE 2563 Special Radiographic Proc/Sectional Anat. (3 cr.)

RTE 1824 Radiology Practicum III (3 cr.)
RTE 1001 Radiographic Terminology (1 cr.)
RTE 2385 Radiation Biology/Protection (2 cr.)
RTE 2834 Radiology Practicum IV (3 cr.)
RTE 2473 Quality Assurance (2 cr.)
RTE 2061 Radiologic Technology Seminar (2 cr.)
RTE 2844 Radiology Practicum V (2 cr.)
RTE 2782 Radiographic Pathology (2 cr.)

TOTAL 54 Hours

TOTAL DEGREE HOURS: 77

Approximate Program Cost

**** Florida Resident ****

(revised 07/14, subject to change)

Per credit hour matriculation (77 credit hrs)	\$ 109.36
Liability insurance	53.00
Books	700.00
Uniforms / equipment	200.00
Lab fees	3000.00
National / State licensing	300.00

Approximate Total	\$12,700.00

**** Non-Florida Resident ****

(First year only. Second year as Florida Resident)

Per credit hour matriculation (45 cr hrs)	\$ 432.63
Per credit hour matriculation (32 cr hrs)	\$ 109.36

Total	\$22,967.87

Typical Work Environment

Radiologic services are offered in various settings such as hospitals, health care facilities, physicians offices, mobile imaging companies, industrial plants, research centers, government agencies, commercial sales and marketing.

Beyond the Registered Technologist in Radiology – R.T. [R]

The person trained in this profession may specialize in their own area or pursue careers as educators, researchers, consultants, or administrators. The constant growth in this field has created many new and exciting career opportunities. There are many choices to make when considering a career in Medical Diagnostic Imaging of which Radiologic Technology is a part. Further career choices include, but not limited to: Computerized Tomography or CAT Scan (CT), Magnetic Resonance Imaging (MRI), Ultrasound (Sonography), Nuclear Medicine, Mammography, and Angiography.

For More Information Contact:

Florida SouthWestern State College Radiologic Technology Program

Radiologic Technology Program Office: (239) 489-9110

Health Professions Program Advisor: (239) 985-8316

Outside Calling Area -- (800) 749-2322, ext. 1816

Health Professions Staff Assistant: (239) 985-3499