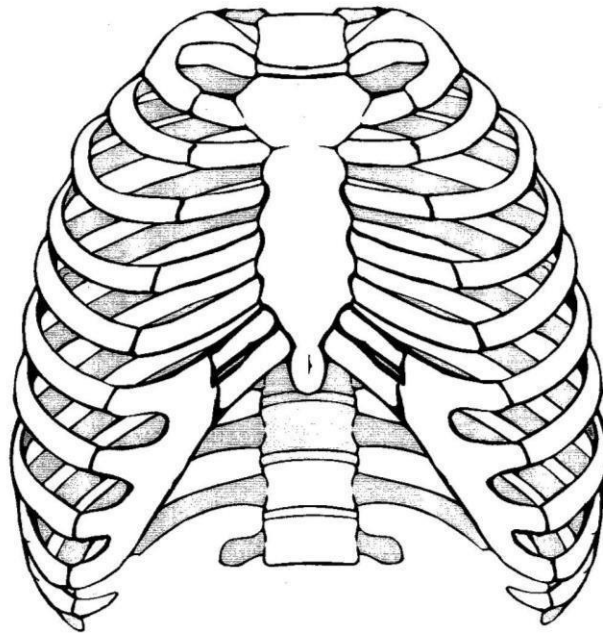




**Forsyth Tech**  
COMMUNITY COLLEGE

## RADIOGRAPHY PROGRAM

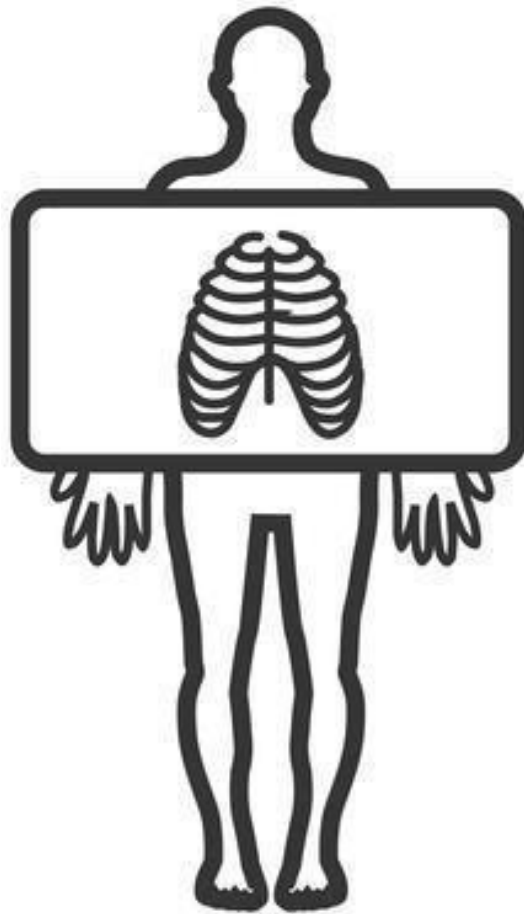


## Student Handbook

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Reviewed annually and revised:  
2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018,  
2019, 2020, 2021, 2022, 2023, **2024**

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Forsyth Technical Community College  
Radiography Program  
2100 Silas Creek Parkway  
Winston-Salem, NC 27103  
(336) 723-0371

# Radiography Program Student Handbook

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# SECTION I: GENERAL PROGRAM INFORMATION

## WELCOME TO THE RADIOGRAPHY PROGRAM

Your selection of Radiography as a program of study carries with it several important responsibilities, as well as countless rewards. As you begin your formal academic training in Radiography, you should consider the following:

- First, the Radiography student must be committed to the profession. Being a Radiologic Technologist requires physical, mental, and emotional stamina. As you give to others, you must often give of yourself. Therefore, commit yourself to learning and do not be reluctant to give, for you often receive so much more in return.
- Second, the Radiography student must maintain high standards and strive for excellence. The importance of providing good healthcare is paramount. When we, as Radiologic Technologists, fail in our performance, the patient is the one who suffers. Patients always deserve our very best efforts.
- Third, the Radiography student must plan for continuing educational growth. Radiography is an ever-changing health science. Advances in technology and medical imaging techniques require on-going learning. Therefore, learn now what you can, but never expect to reach the summit of knowledge concerning the profession. There is always more to learn.
- Fourth, the Radiography student must be actively engaged and participate in the learning process. An instructor can facilitate the learning process by guiding students, pointing out key concepts to be learned, demonstrating procedures, encouraging students to ask questions and actively participate and practice the hands-on-skills necessary for the profession. The degree of learning you accomplish will depend upon and be measured by your involvement in the overall learning process.
- Fifth, the Radiography student must demonstrate professional attitudes and behaviors as well as technical knowledge and skills. Your relationship with your patients directly contributes to you obtaining diagnostic images to aid in the patient's diagnosis. In addition, a positive relationship with your peers and other members of the health care team will contribute to your well-being.
- Sixth, the Radiography student should not become so overwhelmed by educational curriculum content, technology, and the complexity of procedures that you lose focus. The focus should always be to provide a high standard of care for the patient. Keep in mind, we treat people, not diseases. Enjoy the time you spend with each patient and allow them to be the highlight of your day. Remember, patients don't care how much you know until they know how much you care.
- Lastly, your responsibilities may seem great, but the rewards you will receive in this profession will be worth it.

**The Radiography faculty welcomes you to the Radiography Program as you begin your journey to becoming a Radiologic Technologist.**

## 1.0 SELECTIVE ADMISSIONS RATIONALE AND IMPLEMENTATION

The Programs curriculum requires an unusual degree of commitment and determination on the student's part in order to be successful. Sometimes a few applicants who have been accepted into the Program find that it is not what they expected or that it is too physically, mentally, and/or emotionally demanding. Applicants who are already working in healthcare and/or have successfully demonstrated the ability to master challenging academic course work generally have the highest probability to complete and succeed in the Program. In an attempt to determine which applicants meet this description, the Program uses a selective admissions process. To ensure the process is unbiased, the Admissions Office completes a ranking sheet on each applicant using specific ranking criteria as published in the Radiography MAR packet. The applicants with the highest-ranking scores are accepted into the Program.

## 1.1 INTRODUCTION

The handbook is prepared for use by students in the Associate of Applied Science Program in Radiography and contains specific information about the Radiologic Science Program. For general Forsyth Tech policies, see the Forsyth Tech Academic Catalog & Student Handbook.

Forsyth Technical Community College is an equal opportunity institution which prohibits discrimination in any manner with regard to race, color, religion, sex, national origin, age, or disability with regard to its students, employees or applicants for admission or employment.



## 1.2 PROGRAM OVERVIEW

You have been selected for the Radiography Program of Forsyth Technical Community College based on your intellectual abilities that will hopefully make you successful in this important area of healthcare. Radiography is a rapidly changing and growing field that will require you to be a competent radiographer, compassionate health care provider and a lifelong learner due to the ever-changing technology and procedures.

The program, by design, attempts to coordinate classroom, laboratory, and clinical education so that the student will move from basic knowledge to competent practice. Your education will be a mix of cognitive, psychomotor, and effective learning experiences. The psychomotor aspects of the program help to ensure that you can enact thought processes into actual physical performance of radiographic procedures and equipment operation. Effective learning experiences help you to grow as a future technologist with an understanding of professionalism, ethical practice and a value system that will ensure your success as an employee.

The faculty are here to assist and direct you as needed, and they will encourage your independence in gaining important knowledge of radiology and healthcare settings. The motivation to learn and the motivation to continue to learn are essentials for program success. Your hard work should be rewarded as you come to program completion with entry into one of the largest allied health professions, which is highly respected for its vital role in diagnosis and treatment of disease.

This program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT) and strives to provide training that is current in terms of correct practice and availability of the most progressive technology presently used in radiology ([www.jrcert.org](http://www.jrcert.org)).

## 1.3 PROGRAM HISTORY

Forsyth Technical Community College can trace its beginning to early adult and high school vocational courses, which were available in Winston-Salem. In 1958, a Chamber of Commerce Study Committee recommended that an Industrial Education Center be built to provide the trade and technical training needed by local industry. A bond issue provided the money to start construction of two buildings late in 1959 and the first adult classes began in October of 1960. In 1963, a third building was constructed, and new technical programs were added. That same year the North Carolina legislature passed the Community College Act, creating a statewide system of Community Colleges, Technical Institutes, and Industrial Education Centers. In January 1964, the name of the school was changed to Forsyth Technical Institute. The operation of the school was transferred from the Winston-Salem/Forsyth County schools to a local Board of Trustees who has continued to govern the College following policies established by the State Department of Community Colleges.

In 1972, Forsyth Technical Institute acquired the two existing Radiologic Technology Programs in Winston-Salem, one from Forsyth Memorial Hospital and the other from North Carolina Baptist Hospital. Nuclear Medicine Technology also joined the FTI programs. These two hospitals have continued to provide clinical affiliations and adjunct faculty for the Program. The third clinical affiliate High Point Regional Hospital was added in March 1989. The College provides the instructional personnel.

In July 1985, the Board of Trustees and the Forsyth County Board of Commissioners approved the name change for the College from Forsyth Technical Institute to Forsyth Technical College. In 1988, the name was again changed to the present name for the College, Forsyth Technical Community College.

In 1989, Radiation Therapy and Medical Sonography Programs joined the Allied Health Programs as a part of the Health Technologies Division of Forsyth Technical Community College and in 1993, Cardiovascular/Vascular Interventional and CT/MRI Programs began.

Forsyth Tech is accredited by the Southern Association of College and Schools and is approved by the North Carolina Board of Education.

The Radiography Program is accredited by the Joint Review Committee on Education in Radiologic Technology.

Graduates of the program are eligible to sit for the national certification examination offered by the American Registry of Radiologic Technologists.

#### 1.4 PROGRAM MISSION STATEMENT

The mission of the Radiography Program at Forsyth Technical Community College is to actively involve the students in a learning process through diverse educational experiences that include classroom, laboratory, and clinical education and to develop professionals who possess the qualifications necessary to perform the entry-level skills that will enable them to meet the healthcare community needs.

#### 1.5 PROGRAM GOALS

1. The radiography student will be clinically competent.
2. The radiography student will develop critical thinking skills.
3. The radiography student will model professionalism.
4. The radiography student will communicate effectively.
5. The radiography student/graduate will provide the community with entry-level radiographers.

#### 1.6 PROGRAM PHILOSOPHY

It is the educational philosophy of the Radiography Program of Forsyth Technical Community College that knowledge is best gained when the learner is actively involved in the educational process. Furthermore, a variety of educational experiences should be provided to ensure that meaningful learning takes place. The program is also committed to assisting each student to progress in the education process at his/her own rate, dependent on individual ability. Education is a continual process and the tools necessary for continued learning should be strengthened and refined.

#### 1.7 PROGRAM ACCREDITATION

The Forsyth Tech Radiography program is currently accredited through:

The Joint Review Committee on Education in Radiologic Technology (JRCERT)  
20 North Wacker Drive, Suite 2850 Chicago, Illinois 60606-3182  
Phone: (312) 704-5300  
Email: [mail@jrcert.org](mailto:mail@jrcert.org)  
Website: <http://www.jrcert.org>

In 2017, an eight (8) year accreditation status was awarded to this program.

## 1.8 CLINICAL EDUCATION AFFILIATES

Atrium Health Wake Forest Baptist– Comp Rehab  
131 Miller Street  
Winston-Salem, NC 27103  
Phone: 336-716-8283

Atrium Health Wake Forest Baptist– Davie Medical Center  
329 NC Highway 801 N  
Bermuda Run, NC 27006  
Phone: 336-998-2620 or 336-998-2660

Atrium Health Wake Forest Baptist – High Point Medical Center  
601 North Elm Street  
High Point, NC 27262  
Phone: 336-878-6037

Atrium Health Wake Forest Baptist – Lexington Medical Center  
250 Hospital Dr.  
Lexington, NC 27292  
Phone: 336-238-4253

Atrium Health Wake Forest Baptist – Orthopedics and Sports  
Medicine – Stratford  
1901 Mooney St.  
Winston-Salem, NC 27103  
Phone: 336-716-8091 or 336-713-6725

Atrium Health Wake Forest Baptist – Outpatient Imaging  
265 Executive Park Boulevard  
Winston-Salem, NC 27103  
Phone: 336-608-3096

Atrium Health Wake Forest Baptist – Westchester Imaging  
1814 Westchester Drive, Suite 100  
High Point, NC 27262  
Phone: 336-702-2312

Atrium Health Wake Forest Baptist – Winston-Salem Campus  
1 Medical Center Boulevard  
Winston-Salem, NC 27157  
Phone: 336-716-7070 or 336-716-3560

Community Care Center of Forsyth County  
2135 New Walkertown Road  
Winston-Salem, NC 27101  
Phone: 336-723-7904

Cone Health – Moses Cone Hospital  
1211 North Church Street, Entrance A  
Greensboro, NC 27401  
Phone: 336-832-7577

Northern Regional Hospital  
830 Rockford Street  
Mount Airy, NC 27030  
Phone: 336-719-7123

Novant Health – Clemmons Medical Center  
6915 Village Medical Circle  
Clemmons, NC 27012  
Phone: 336-893-1000 or 336-893-1590

Novant Health – Forsyth Medical Center  
3333 Silas Creek Parkway  
Winston-Salem, NC 27103  
Phone: 336-718-5530

Novant Health – Kernersville Imaging Center  
445 Pine View Drive, Suite 100  
Kernersville, NC 27284  
Phone: 336-397-6102

Novant Health – Kernersville Medical Center  
1750 Kernersville Medical Parkway  
Kernersville, NC 27284  
Phone: 336-564-4688

Novant Health – Maplewood Imaging Center  
3155 Maplewood Avenue  
Winston-Salem, NC 27103  
Phone: 336-765-2702

Novant Health – Medical Park Hospital  
1950 South Hawthorne Road  
Winston-Salem, NC 27103  
Phone: 336-718-0619

Novant Health – Orthopedics and Sports Medicine  
(Clemmons)  
7210 Village Medical Circle, Suite 110  
Clemmons, NC 27012  
Phone: 336 893-2126

Novant Health – Orthopedics and Sports Medicine  
(High Point)  
6431 Old Plant Road  
High Point, NC 27265  
Phone: 336 875-6540

Novant Health – Orthopedics and Sports Medicine (Kernersville)  
1730 Kernersville Medical Parkway, Suite 204  
Kernersville, NC 27284  
Phone: 336 277-4460

Novant Health – Orthopedics and Sports Medicine (Thomasville)  
211 Old Lexington Road  
Thomasville, NC 27360  
Phone: 336-474-8153

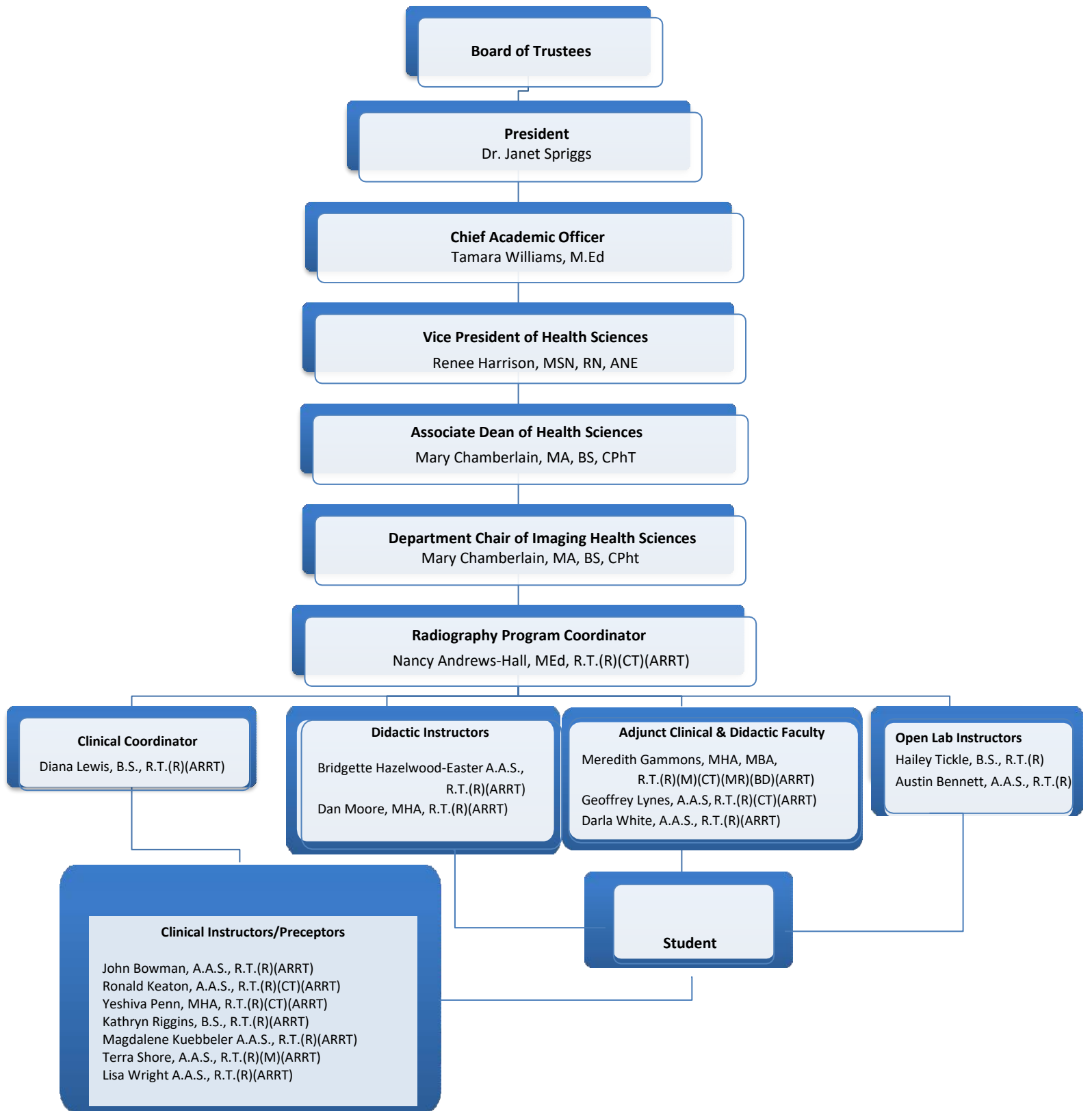
Novant Health – Piedmont Imaging Center  
185 Kimel Park Drive, Suite 100  
Winston-Salem, NC 27103  
Phone: 336-397-6433

Novant Health – Thomasville Medical Center  
207 Old Lexington Road  
Thomasville, NC 27360  
Phone: 336-476-2500

OrthoCarolina - Kernersville  
445 Pineview Drive, Suite 220  
Kernersville, NC 27284  
Phone: 336-659-3769 or 336-768-1270 (ext.8385)

OrthoCarolina – Winston-Salem Campus  
170 Kimel Park Drive  
Winston-Salem, NC 27103  
Phone: 336-659-3769 or 336-768-1270 (ext. 8285)

1.9 INSTITUTIONAL AND PROGRAM ORGANIZATIONAL CHART



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## 1.11 FACULTY DESCRIPTIONS

### **Program Coordinator/Director**

A campus faculty member that will be responsible for the organization, supervision, and operations of the overall program.

The program director is responsible for the following:

- Assuring effective program operations
- Overseeing ongoing program accreditation and assessment processes
- Participating in budget planning
- Participating in didactic and/or clinical instruction, as appropriate
- Maintain current knowledge of the professional discipline and educational methodologies through continuing professional development
- Assuming the leadership role in the continued development of the program
- Curriculum design
- Evaluation of faculty
- Conducts on-going program effectiveness
- Evaluates and assures clinical education effectiveness
- Advisement of students
- Serve on committees

### **Clinical Coordinator**

A campus faculty member that will be responsible for the organization, supervision, and coordination of the clinical education courses in each of the clinical affiliates.

The clinical coordinator is responsible for the following:

- Correlating and coordinating clinical education with didactic education and evaluating its effectiveness
- Participating in didactic and/or clinical instruction
- Supporting the program director to assure effective program operations
- Participating in the accreditation and assessment processes
- Maintaining current knowledge of the professional discipline and educational methodologies through continuing professional development
- Maintaining current knowledge of program policies, procedures, and student progress
- Evaluates competencies, advises, and counsels students
- Periodically assists Program Coordinator in review and revision of clinical course materials
- Serves as a liaison between the campus and clinical affiliates and facilitates communication between the clinical affiliates and the college
- Supervises and assists the clinical instructor/preceptor as needed with scheduling, instruction, etc.
- Observes and visits students in the clinical setting during clinical educational experience
- Advisement of students
- Serve on committees

### **Full-Time Didactic Faculty**

A campus faculty member that will be responsible for:

- Preparing and maintaining course outlines and objectives, instructing, and evaluating student progress
- Participating in the accreditation and assessment processes
- Supporting the program director to assure effective program operations
- Participating in periodic review and revision of course materials
- Maintaining current knowledge of professional discipline
- Maintaining appropriate expertise and competence through continuing professional development
- Course instruction and evaluation
- Advisement of students
- Serve on committees

### **Adjunct Faculty**

A campus faculty member that will be responsible for:

- Preparing and maintaining course outlines and objectives, instructing, and evaluating students, and reporting progress
- Participating in the assessment process, as appropriate
- Participating in periodic review and revision of course materials
- Maintaining current knowledge of the professional discipline, as appropriate
- Maintaining appropriate expertise and competence through continuing professional development

### **Clinical Instructor/Preceptor**

A part-time clinical instructor/preceptor will be responsible for:

- Serving as a role model for the students
- Maintaining knowledge of program mission and goals
- Understanding the clinical objectives and clinical evaluation system and evaluating students' clinical competence
- Orientating new students to their assigned clinical sites
- Providing students with clinical instruction, supervising daily performance, and documenting occurrences,
- Participating in the assessment process, as appropriate
- Maintaining current knowledge of program policies, procedures, and student progress
- Monitoring and enforcing program policies and procedures
- Ensure that students follow clinical affiliates, program, and college policies and procedures
- Supports the clinical coordinator and program director to help ensure effective program operation



## 1.12 RADIOGRAPHY PROGRAM COSTS

Program costs vary year-to-year and are subject to change without notice. The following is offered as an estimated cost for the Associates in Applied Science Degree in Radiography. Some costs listed represent “typical averages.” The average is also based on full-time enrollment.

Description	Amount
Tuition includes general education and radiography courses as listed in the program of study for the college. <a href="https://catalog.forsythtech.edu/2324">https://catalog.forsythtech.edu/2324</a>	
In-State Tuition (\$76.00 per credit hour x 70 credit hours)	\$5,320.00
Out-of-State Tuition (\$268.00 per credit hour x 70 credit hours)	\$18,760.00
TEAS Testing (Admission Testing)	\$10.00
Medical physical, lab work, and immunizations	Variable due to insurance, copay, and deductibles
CPR- American Heart Association ( <i>estimated average</i> )	\$53.00
Program Lab Fees	\$525.00
Student Activity Fees	\$140.00
Technology Fees	\$240.00
Campus Parking Fees (CAPS)	\$125.00
Malpractice Insurance ( <i>Liability insurance must be purchased annually before engaging in lab or clinical practice. The cost varies according to the credit program and insurance carrier</i> )	\$36.00
Textbooks and Course Material ( <i>estimated average</i> )	\$1,200.00
RADTechBootCamp Registry Review ( <i>estimated average</i> ) Mandatory 3 <sup>rd</sup> Semester	\$150.00
Kettering Registry Review ( <i>estimated average</i> ) Mandatory 5 <sup>th</sup> Semester	\$200.00
Uniforms ( <i>estimated average</i> )	\$175.00
Marker Fees (2 sets) ( <i>estimated average</i> )	\$58.00
Clinical Parking Fees	\$40.00
Clinical Management System (MyClinicalExchange) ( <i>estimated average</i> )	\$79.00
Criminal background/Drug Screening (American Data Bank/Complio) ( <i>estimated average</i> )	\$95.00
ASRT membership (1 year) Mandatory 4 <sup>th</sup> Semester	\$35.00
NCSRT membership ( <i>Optional, highly recommended</i> )	\$30.00
NCSRT Annual Conference ( <i>Optional, highly recommended</i> ) Conference fee, travel, room, and meals ( <i>estimated average</i> ) *NCSRT membership required to attend conference	\$400.00
Grand Total Estimated Costs: In-State resident	\$8,511.00
Total Estimated Costs: Out-of-State resident	\$21,923.00
<p>The total estimated cost does not include travel expenses. Travel to Forsyth Tech main campus, clinical sites, second shift, and weekend clinical rotations are a requirement during the program.</p> <p>For additional information on Refund Policies please see the following link: <a href="https://www.forsythtech.edu/students/how-to-pay-for-college/financial-aid-fags/">https://www.forsythtech.edu/students/how-to-pay-for-college/financial-aid-fags/</a></p>	

### 1.13 RADIOGRAPHY PROGRAM CONTINGENCY PLAN

Forsyth Tech's Radiography Program is fully committed to the health and safety of students and faculty without compromising the educational mission of the program. If extenuating catastrophic circumstances (i.e., mass casualty event, pandemic, natural disaster, etc.) impact Forsyth Technical Community College Radiography Program operations, or student access to affiliate clinical sites, the Radiography Program has developed a plan to ensure the safety and well-being of the students and faculty while helping to safeguard a quality education. The program's contingency plan is kept in the Program Coordinators office.

In addition, the Radiography Program Faculty will ensure that all graduates have met all the requirements for graduation, including ARRT required competencies, required clinical hours, and successful completion of all coursework with a grade of "78" or better.

While the program faculty will do everything possible to ensure that students complete their graduation requirements on time, extenuating catastrophic circumstances may extend the program requirements beyond the expected graduation date. Additionally, program faculty will ensure that all modifications to clinical and didactic education are following Joint Review Committee on Education in Radiologic Technology (JRCERT) Standards for an Accredited Educational Program in Radiography.

## SECTION 2: RADIOLOGIC TECHNOLOGY PROFESSION

## 2.0 RADIOLOGIC TECHNOLOGIST CERTIFICATION

Students successfully completing the Associate in Applied Science Degree in Radiography will be eligible to sit for the registry examination administered by the American Registry of Radiologic Technologists (ARRT). Successful completion of the ARRT examination provides certification for individuals to practice as a registered radiologic technologist. **Students convicted of a felony or misdemeanor charges could be excluded from actual clinical experience and/or the opportunity to take the ARRT certification examination.** Visit [www.arrt.org](http://www.arrt.org) for more information.

## 2.1 QUALIFICATIONS FOR CERTIFICATION

In accordance with the American Registry of Radiologic Technologist's "Equation for Excellence", candidates for ARRT certification must meet three steps of requirements to be eligible for ARRT certification and registration.

They are as follows:

1. Ethics
2. Education
3. Examination

### Ethics

Each candidate for certification and every applicant for renewal of registration must, according to the governing documents, "be a person of good moral character and must not have engaged in conduct that is inconsistent with ARRT Rules of Ethics, and they must "agree to comply with the ARRT Rules and Regulations and the ARRT standards of Ethics." ARRT investigates all potential violations in order to determine eligibility. The ARRT Standards of Ethics provides proactive guidance on what it means to be qualified and to motivate and promote a culture of ethical behavior within the profession. Compliance with the Rules of Ethics is required for initial eligibility for certification and for ongoing registration. The Code of Ethics serves as an aspirational guide to achieving the highest standards of patient care.

### Education

Eligibility for certification also specifies the satisfaction of educational preparation requirements. For the primary category's eligibility requires the successful completion of the respective discipline's formal educational program that is accredited by a mechanism acceptable to the ARRT. Candidates must also demonstrate competency in didactic coursework and an ARRT specified list of clinical procedures.

### Examination

Lastly, eligibility requires candidates for certification, after having met all other qualifications, to pass an examination developed and administered by the ARRT. The examination assesses the knowledge and cognitive skills underlying the intelligent performance of the tasks typically required of staff technologists practicing within the respective disciplines. Examination content is specified on the ARRT website and in the respective handbook for each discipline.

## 2.3 THREE ATTEMPTS IN THREE YEARS

You may make three attempts within three years to pass a certification and registration examination. The three-year period begins with the starting date of your initial ARRT examination window. After three unsuccessful examination attempts or three years—whichever comes first—your eligibility ends.

If you fail an ARRT examination three times within three years, you will have to regain eligibility to apply for certification and registration. For more information, visit [www.arrt.org](http://www.arrt.org).

## 2.4 ARRT STANDARDS OF ETHICS

### The American Registry of Radiologic Technologists

#### Standards of Ethics

The Code of Ethics forms the first part of the Standards of Ethics. The Code of Ethics shall serve as a guide by which Registered Technologists and Candidates may evaluate their professional conduct as it relates to patients, healthcare consumers, employers, colleagues, and other members of the healthcare team. The Code of Ethics is intended to assist Registered Technologists and Candidates in maintaining a high level of ethical conduct and in providing for the protection, safety, and comfort of patients. The Code of Ethics is aspirational. The entire Standards of Ethics can be found at: <https://assets-us-01.kc-usercontent.com/406ac8c6-58e8-00b3-e3c1-0c312965deb2/bbb73119-fa02-429c-be17-1f6896047106/2023%20ARRT%20Standards%20of%20Ethics.pdf>

1. The Registered Technologist acts in a professional manner, responds to patient needs, and supports colleagues and associates in providing quality patient care.
2. The Registered Technologist acts to advance the principal objective of the profession to provide services to humanity with full respect for the dignity of humankind.
3. The Registered Technologist delivers patient care and service unrestricted by the concerns of personal attributes or the nature of the disease or illness, and without discrimination on the basis of race, color, creed, religion, national origin, sex, marital status, status with regard to public assistance, familial status, disability, sexual orientation, gender identity, veteran status, age, or any other legally protected basis.
4. The Registered Technologist practices technology founded upon theoretical knowledge and concepts, uses equipment and accessories consistent with the purposes for which they were designed, and employs procedures and techniques appropriately
5. The Registered Technologist assesses situations; exercises care, discretion, and judgment; assumes responsibility for professional decisions; and acts in the best interest of the patient.
6. The Registered Technologist acts as an agent through observation and communication to obtain pertinent information for the physician to aid in the diagnosis and treatment of the patient and recognizes that interpretation and diagnosis are outside the scope of practice for the profession.
7. The Registered Technologist uses equipment and accessories, employs techniques and procedures, performs services in accordance with an accepted standard of practice, and demonstrates expertise in minimizing radiation exposure to the patient, self, and other members of the healthcare team.
8. Registered Technologist practices ethical conduct appropriate to the profession and protects the patient's right to quality radiologic technology care.
9. The Registered Technologist respects confidences entrusted in the course of professional practice, respects the patient's right to privacy, and reveals confidential information only as required by law or to protect the welfare of the individual or the community.
10. The Registered Technologist continually strives to improve knowledge and skills by participating in continuing education and professional activities, sharing knowledge with colleagues, and investigating new aspects of professional practice.
11. The Registered Technologist refrains from the use of illegal drugs and/or any legally controlled substances which result in impairment of professional judgment and/or ability to practice radiologic technology with reasonable skill and safety to patients.

## 2.5 ARRT ETHICS REVIEW

Candidates for certification and Radiologic Technologists are held to strict ethics standards in order to be eligible for initial

certification and annual renewal of registration. Individuals who are considering enrolling in an educational program or who are more than six months in advance of graduation may want to take advantage of the ARRT Ethics Review Pre-Application process in order to determine their ethics eligibility. Individuals who apply for a primary pathway to certification must answer three ethics-related questions on the application form. The questions address convictions, court-martials, disciplinary action by regulatory or other certification boards, and educational honor code violations. The Ethics Review Pre-Application is reserved for those who are not yet enrolled in an ARRT-recognized educational program or enrolled in an ARRT recognized educational program and are at least six months away from graduation. The Ethics Review Pre-Application provides an early ethics review of violation(s) that would otherwise need to be reported on your Application for Certification when you have completed an ARRT recognized educational program and may be used for the following circumstances:

- Criminal proceedings, including:
  - Misdemeanor charges and convictions
  - Felony charges and convictions
  - Military court-martials; and/or
- Disciplinary actions taken by a state or federal regulatory authority or certification board; and/or
- Honor code violations (college, institution, hospital, etc.)

Applicants with such a history are strongly advised to contact the ARRT and go through the pre-application process to determine future eligibility status before enrolling in the radiography program. Further information can be found at the ARRT website: <https://www.arrt.org/> or by calling the ARRT at (651) 687- 0048. Decisions on ARRT applicant eligibility based on criminal background are solely the responsibility of the ARRT.

## 2.6 ROLE OF RADIOLOGIC TECHNOLOGIST

Radiologic Technologists (Radiographers) are the medical personnel who perform diagnostic imaging examinations and administer radiation therapy treatments. A Radiologic Technologist uses critical thinking and independent judgment to obtain a diagnostic imaging study while maintaining quality patient care and minimizing radiation exposure. They are educated in anatomy, patient positioning, examination techniques, equipment protocols, radiation safety, and basic patient care. Technologists are employed in acute care settings, ambulatory care settings, physicians' offices, in education, and in management or sales positions. They may specialize in a specific imaging technique such as bone densitometry, cardiovascular interventional radiography, computed tomography, mammography, magnetic resonance imaging, nuclear medicine, quality management, sonography, or general radiography. The radiologic technologists who specialize in radiation therapy, which is the delivery of high doses of radiation to treat cancer and other diseases, are radiation therapists and medical dosimetrists. Registered radiologic technologists must complete at least two years of formal education in an accredited two- or four-year educational program at an academic institution and must pass a national certification examination. To remain registered, they must earn continuing education credits. The Associate in Applied Science Degree in Radiography prepares students to become members of the health care team in a variety of settings. Radiographers must be sensitive to the patients' physical and psychological needs, pay attention to detail, follow instructions, work as part of a team, and demonstrate mechanical ability and manual dexterity. Radiographers operate sophisticated equipment to help physicians and surgeons, and other health practitioners diagnose and treat patients.

## 2.7 RADIOGRAPHY PRACTICE TECHNICAL STANDARDS

The practice of radiography is performed by a segment of health care professionals responsible for the administration of ionizing radiation to humans for diagnostic, therapeutic or research purposes. A radiographer performs radiographic procedures and related techniques, producing images at the request of and for interpretation by a licensed independent practitioner. The complex nature of disease processes involves multiple imaging modalities. Although an interdisciplinary team of radiologists, radiographers and support staff plays a critical role in the delivery of health services, it is the radiographer who performs the

radiographic examination that creates the images needed for diagnosis. Radiography integrates scientific knowledge, technical skills, patient interaction, and compassionate care resulting in diagnostic information. A radiographer recognizes patient conditions essential for successful completion of the procedure.

Radiographers must demonstrate an understanding of human anatomy, physiology, pathology, and medical terminology. Radiographers must maintain a high degree of accuracy in radiographic positioning and exposure technique. They must possess, utilize, and maintain knowledge of radiation protection and safety. Radiographers independently perform or assist the licensed independent practitioner in the completion of radiographic procedures. Radiographers prepare, administer and document activities related to medications in accordance with state and federal regulations or lawful institutional policy. Radiographers are the primary liaison between patients, licensed independent practitioners, and other members of the support team. Radiographers must remain sensitive to the physical and emotional needs of the patient through good communication, patient assessment, patient monitoring, and patient care skills. As members of the health care team, radiographers participate in quality improvement processes and continually assess their professional performance. Radiographers think critically and use independent, professional, and ethical judgment in all aspects of their work. They engage in continuing education to enhance patient care, public education, knowledge, and technical competence.

## 2.8 RADIOGRAPHER SCOPE OF PRACTICE

The scope of practice of the medical imaging professional includes:

- Apply knowledge of anatomy, physiology, positioning, and radiographic techniques to accurately demonstrate anatomical structures on a radiograph or imaging receptor
- Perform diagnostic radiographic procedures
- Apply principles of ALARA to minimize exposure to patient, self, and others; determine exposure factors to achieve optimum radiographic techniques with minimum radiation exposure to the patient and self
- Evaluate radiographic images for appropriate positioning and image quality
- Determining radiographic technique exposure factors
- Apply the principles of radiation protection to the patient, self, and others
- Provide patient care and comfort
- Verify informed consent
- Recognize emergency patient conditions and initiate lifesaving first aid and basic life support procedures.
- Evaluate the performance of radiologic systems, know the safe limits of equipment operations, and report malfunctions to the proper authorities
- Exercise independent judgment and discretion in the technical performance of medical imaging procedures
- Participate in radiologic quality assurance programs; performing ongoing quality assurance activities
- Receive, relay and document verbal, written and electronic orders in the patient's medical record
- Provide patient/public education related to radiologic procedures and radiation protection safety
- Utilize physical strengths and capabilities by: assisting and lifting patients onto and from radiographic tables; carrying various accessory equipment; and manipulating radiographic equipment
- Demonstrate expected ethical and professional behavior
- Communicate and interact effectively with patients, the members of the healthcare profession, and others

## SECTION 3: RADIOGRAPHY PROGRAM CURRICULUM



### 3.0 PROGRAM CURRICULUM OUTLINE

The Radiography curriculum prepares the graduate to become a radiographer, a skilled health care professional who uses radiation to produce images of the human body. Coursework includes clinical rotations to area healthcare facilities, radiographic exposure, image processing, radiographic procedures, physics, pathology, patient care and management, radiation safety, quality assurance, anatomy and physiology, and radiobiology. Graduates of accredited programs are eligible to apply to take the American Registry of Radiologic Technologist's national examination for certification and registration as a medical radiographer. Graduates may be employed in hospitals, clinics, physicians' offices, medical laboratories, government agencies, and other industries.

### 3.1 CURRICULUM COURSE SEQUENCE

	Class	Lab	Clinical	Credit
<b>1<sup>st</sup> Semester FALL</b>				
ENG 111 Writing and Inquiry	3	0	0	3
RAD 110 Rad Intro & Patient Care	2	3	0	3
RAD 111 RAD Procedures I	3	3	0	4
RAD 151 RAD Clinical ED I	0	0	6	2
BIO 163 Basic Anatomy & Physiology	4	2	0	4
<b>Total</b>	<b>12</b>	<b>8</b>	<b>6</b>	<b>17</b>
<b>2<sup>nd</sup> Semester SPRING</b>				
MAT 143	2	2	0	3
RAD 112 RAD Procedures II	3	3	0	4
RAD 121 Image Production I	2	3	0	3
RAD 161 RAD Clinical ED II	0	0	15	5
<b>Total</b>	<b>7</b>	<b>8</b>	<b>15</b>	<b>15</b>
<b>3<sup>rd</sup> Semester SUMMER</b>				
RAD 122 Image Production II	1	3	0	2
RAD 141 Radiation Safety	2	0	0	2
RAD 171 RAD Clinical ED III	0	0	9	3
Humanities/Fine Arts Elective			0	3
ENG 112 Writing/Research Or ENG 114 Prof Research & Reporting	3	0	0	3
<b>Total</b>	<b>6</b>	<b>3</b>	<b>9</b>	<b>13</b>
<b>4<sup>th</sup> Semester FALL</b>				
RAD 211 RAD Procedures III	2	3	0	3
RAD 231 Image Production III	1	3	0	2
RAD 251 RAD Clinical ED IV	0	0	21	7

PSY 118 Interpersonal Psychology Or PSY 150 General Psychology	3	0	0	3
<b>Total</b>	<b>6</b>	<b>6</b>	<b>21</b>	<b>15</b>
<b>5<sup>th</sup> Semester SPRING</b>				
RAD 261 RAD Clinical ED V	0	0	21	7
RAD 271 Radiography Capstone	2	3	0	3
<b>Total</b>	<b>2</b>	<b>3</b>	<b>21</b>	<b>10</b>
<b>Total Credit Hours: 70</b>				

**Please note:** In Fall 2014 the required course changed to MAT 143 Quantitative Literacy. Although we will no longer be offering MAT 115, 140 or 161 here, they will still be accepted as the curriculum math going forward.

**The Radiography Curriculum is subject to change.**

### 3.2 RADIOGRAPY COURSE DESCRIPTION

#### **RAD 110 RAD Introduction & Patient Care**

This course provides an overview of the radiography profession and student responsibilities. Emphasis is placed on basic principles of patient care, radiation protection, technical factors, and medical terminology. Upon completion, students should be able to demonstrate basic skills in these areas. Prerequisite: Acceptance into Radiography Program.

#### **RAD 111 RAD Procedures I**

This course provides the knowledge and skills necessary to perform standard radiographic procedures. Emphasis is placed on radiography of the chest, abdomen, extremities, bony thorax, and pelvis. Upon completion, students should be able to demonstrate competence in these areas.

#### **RAD 151 RAD Clinical Education I**

This course introduces patient management and basic radiographic procedures in the clinical setting. Emphasis is placed on mastering positioning of the chest and extremities, manipulating equipment, and applying principles of ALARA. Upon completion, students should be able to demonstrate successful completion of clinical objectives.

#### **RAD 112 Radiographic Procedures II**

This course provides the knowledge and skills necessary to perform standard radiographic procedures. Emphasis is placed on radiography of the skull, spine, and gastrointestinal, biliary, and urinary systems. Upon completion, students should be able to demonstrate competence in these areas.

#### **RAD 121 Image Production I**

This course provides the basic principles of radiographic image production. Emphasis is placed on image production, x-ray equipment, receptor exposure, and basic imaging quality factors. Upon completion, students should be able to demonstrate an understanding of basic principles of radiographic image production.

#### **RAD 161 RAD Clinical Education II**

This course provides additional experience in patient management and in more complex radiographic procedures. Emphasis is placed on mastering positioning of the spine, pelvis, head and neck, and thorax and adapting procedures to meet patient variations. Upon completion, students should be able to demonstrate successful completion of clinical objectives.

#### **RAD 122 Image Production II**

This course is designed to continue to develop the concepts and principles in the field of radiologic technology. Emphasis is placed on advanced digital principles and production. Upon completion students should be able to demonstrate an understanding of the advanced principles of digital imaging production.

**RAD 141 Radiation Safety**

This course covers the principles of radiation protection and radiobiology. Topics include the effects of ionizing radiation on body tissues, protective measures for limiting exposure to the patient and personnel, and radiation monitoring devices. Upon completion, students should be able to demonstrate an understanding of the effects and uses of radiation in diagnostic radiology.

**RAD 171 RAD Clinical Education III**

This course provides experience in patient management specific to advanced radiographic procedures. Emphasis is placed on applying appropriate technical factors to all studies and transitioning to mastering positioning of advanced studies. Upon completion, students should be able to demonstrate successful completion of clinical objectives.

**RAD 211 Radiographic Procedures III**

This course provides the knowledge and skills necessary to perform standard and specialty radiographic procedures. Emphasis is placed on radiographic specialty procedures, advanced imaging, radiographic pathology, and image analysis. Upon completion, students should be able to demonstrate an understanding of these areas.

**RAD 231 Image Production III**

This course is designed to continue to develop the concepts and principles in the field of radiologic technology. Emphasis is placed on complex imaging production and principles, quality control and quality assurance in the imaging sciences. Upon completion students should be able to demonstrate an understanding of the advanced radiographic equipment, and quality control programs.

**RAD 251 RAD Clinical Education IV**

This course provides the opportunity to continue mastering all basic radiographic procedures and to attain experience in advanced areas. Emphasis is placed on equipment operation, pathological recognition, pediatric and geriatric variations, and a further awareness of radiation protection requirements. Upon completion, students should be able to demonstrate successful completion of clinical objectives.

**RAD 261 RAD Clinical Education V**

This course is designed to enhance expertise in all radiographic procedures, patient management, radiation protection, and image production and evaluation. Emphasis is placed on developing an autonomous approach to the diversity of clinical situations and successfully adapting to those procedures. Upon completion, students should be able to demonstrate successful completion of clinical objectives.

**RAD 271 Radiography Capstone**

This course provides an opportunity to exhibit problem-solving skills required for certification. Emphasis is placed on critical thinking and integration of didactic and clinical components. Upon completion, students should be able to demonstrate the knowledge required of any entry-level radiographer.

### 3.3 CORRELATION OF DIDACTIC, LABORATORY, AND CLINICAL EDUCATION

		MASTER PLAN OF EDUCATION		
Fall Semester	Spring Semester	Summer Semester	Fall Semester	Spring Semester
<p><i>RAD 111</i> Procedures I</p> <p><i>RAD 110</i> RAD Intro. &amp; Patient Care</p> <p><i>RAD 151 (6)</i> Clinical ED I</p>	<p><i>RAD 112</i> Procedures II</p> <p><i>RAD 121</i> Image Production I</p> <p><i>RAD 161 (15)</i> Clinical Ed. II</p>	<p><i>RAD 122</i> Image Production II</p> <p><i>RAD 141</i> Radiation Safety</p> <p><i>RAD 171 (9)</i> Clinical Ed. III</p>	<p><i>RAD 211</i> Procedures III</p> <p><i>RAD 231</i> Image Production III</p> <p><i>RAD 251 (21)</i> Clinical Ed. IV</p>	<p><i>RAD 271</i> Radiography</p> <p>Capstone</p> <p><i>RAD 261 (21)</i> Clinical Ed. V</p>
<p><b>Energized labs:</b></p> <p><i>Positioning:</i> Chest, Abdomen, Upper and Lower Extremities, Thorax and Pelvis</p> <p><i>RAD Intro. &amp; Patient Care:</i> Patient transfer, vital signs, sterile technique, communication, medical terminology, orders and request, technical factors, drug administration, and basic radiation protection</p>	<p><b>Energized labs:</b></p> <p><i>Positioning:</i> Skull, Gastrointestinal, Urinary, Biliary &amp; Spines</p> <p><i>Imaging I:</i> Image production, x-ray tubes, exposure factors, receptor exposure, collimation, grids, and basic imaging quality factors</p>	<p><b>Energized labs:</b></p> <p><i>Imaging II:</i> Radiographic equipment, digital image acquisition and processing, post processing, acquisition errors, and data management</p> <p><i>Radiation Safety:</i> Radiation protection, radiobiology, interactions with matter, effects of ionizing radiation on body tissues, protective measures for patient &amp; personnel, units, and radiation monitoring devices</p>	<p><b>Energized labs:</b></p> <p><i>Positioning:</i> Trauma, specialty procedures, head/special projections, additional imaging modalities, pathology, and image analysis</p> <p><i>Imaging III:</i> Advanced principles and production of digital imaging, digital equipment, quality control and quality assurance</p>	<p><b>Energized labs:</b></p> <p><i>Capstone:</i> Problem-solving skills, critical thinking and combining all aspects of didactic and clinical education</p>

### 3.4 COMPETENCY-BASED DEVELOPMENT

The radiography curriculum is founded on principles of Competency-Based Education (CBE) and designed to develop knowledge, skills, and attitudes. The educational and clinical experiences are directed toward preparing individuals to perform pre-specified tasks of an occupation or profession under “real world conditions” and to perform these tasks at a level of accuracy and speed required of radiographers on the job. The curriculum is designed to allow students to achieve competence in the responsibilities of the profession before leaving the education program. Radiography courses and clinical experiences are arranged in a sequential manner and proceed to a new experience only when the student has achieved the specified level of competence in the previous task/course. Continuous evaluation and reinforcement of student performance is critical in CBE. This means that the student will perform the task or procedure under direct supervision of the educator/technologist. During each step, the student’s ability and performance are evaluated.

### 3.5 COURSE SYLLABUS

All program courses beginning with the prefix RAD have a course syllabus whose purpose is to give the student an outline of the content of the course and a guide for completion of the course requirements. The syllabus contains the following information:

- Course prefix, number, and title
- Course rationale, description, and outline
- Textbook(s) to be used
- Objectives to be achieved
- Method of evaluation and grading procedure
- Critical Requirements: Assignment for a course which may or may not carry a grade, but must be successfully completed for a passing grade to be issued for the course
- Number of competencies required to continue in the program (clinical)
- Various program/course policies

### 3.6 ACADEMIC GRADING

At the end of each radiography course for which a student is registered, he/she will receive a final grade. Final grades for Major Curriculum coursework in Radiologic Technology will be based on one hundred percent (100%) and will be determined as follows:

#### Forsyth Tech Grading Scale:

Letter Grade	Final Number Grade
<b>A</b>	<b>90-100</b>
<b>B</b>	<b>80-89</b>
<b>C</b>	<b>70-79</b>
<b>*D</b>	<b>60-69</b>
<b>*F</b>	<b>59 and below</b>
<b>*W</b>	<b>Withdraw before the 60% mark. Does not affect GPA.</b>

**\*Below minimal requirement for progression in the Radiography Program**

### 3.7 ACADEMIC PROGRESSION IN RADIOGRAPHY

Students must maintain good academic standards throughout the radiography program. All courses with a RAD prefix must be passed with a grade of 78 or above. Some courses may have critical requirements which must be met to receive a passing grade for that course. These courses will have the critical course requirement stated in the course syllabus which is distributed the first day of class. If a student receives a grade, lower than 78 in any RAD course they will be dismissed from the Radiography Program. Readmission may be possible but requires reapplication for approval by the college.

### 3.8 VOLUNTARY WITHDRAWAL

If a student elects to voluntarily withdraw from the Radiography Program, there is no guarantee that he/she will be readmitted to the program. Students withdrawing from the program and wishing to reenter will be required to re-qualify and re-apply for program admission based on the Forsyth Tech Re-admission Policy and the Radiography Program Re-admission Policy.

Prior to withdrawal from any course of instruction, the student should contact their instructor to determine their best options. It is the student's responsibility to submit a drop form to officially withdraw from the course to avoid a grade of "F". The drop form can be found at <http://coursedrop.forsythtech.edu>.

## SECTION 4: GENERAL COLLEGE INFORMATION

#### 4.0 STATEMENT OF NONDISCRIMINATION AND EQUITY

At Forsyth Technical Community College, equity is grounded in a culture of belonging. We will intentionally design the college experience to ensure that each learner receives what they need to be successful.

Forsyth Tech is committed to making everyone in our campus community safe, comfortable, and supported while they learn and work. We want to ensure that everyone remains safe and free from harassment, discrimination, retaliation, and violence. We depend on community members like you to identify and report any issues of concern so we can address them and provide impacted students and employees with support.

#### 4.1 ACADEMIC DISHONESTY, CHEATING, AND RELATED OFFENSES

The Radiography Program strictly enforces Forsyth Tech's rule on Academic Dishonesty, Cheating, and Related Offenses. (See Rule 9. Academic Dishonesty, Cheating, and Related Offenses in Forsyth Tech Academic Catalog & Student Code of Conduct). *In the event of a violation, appropriate disciplinary action(s) will be taken.*

#### 4.2 DISABILITIES STATEMENT

Disability Services is dedicated to meeting the needs of college students with disabilities. Our goal is to ensure that all students have equal access and opportunity to benefit from classes, programs, and activities at Forsyth Tech. Forsyth Tech strives to empower students in every way possible, believing that by doing so, we can maximize their abilities.

Students who have a disability and would like to request services and accommodations must register with Disability Services. They will be required to provide documentation of their disability. Information provided by a student is voluntary and appropriate confidentiality is maintained. Students who need accommodations should contact the Disability Services Office (DSO) at (336) 734-7378 or (336) 734-7155; or [disabilityservices@forsythtech.edu](mailto:disabilityservices@forsythtech.edu). The College has a telecommunications device for the deaf (TDD/ TTY). The number is (336) 723-3411. DSO is in the Robert L. Strickland Center, Student Success Center - Suite 2414. Their office is open Monday – Thursday 8am to 5pm and Friday 8am to 3pm.

Services are designed and developed on an individual-needs basis and are free to our students. A student may elect to use any or all the accommodations/services appropriate to meet their needs. Students may walk into the DSO on Tuesdays and Thursday and speak with a DSO counselor, but an appointment is encouraged on all other days to discuss individual accommodations.

In strict compliance with Section 504 of the Rehabilitation Act of 1973, no otherwise qualified individual with a disability shall solely by reason of his or her disability be excluded from the participation in, denied benefits of, or be subjected to discrimination under any program or any activity of this institution. For more information regarding Disability Services, please view our [Forsyth Tech Disability Student Services Guide](#).

#### 4.3 USE OF CONTROLLED SUBSTANCES

##### **Rule 7- Narcotics, Alcoholic Beverages and Controlled Substances Policy**

“A student shall not knowingly or negligently own, possess, use, transport or be at any time under the influence of any narcotic drug, alcoholic beverage or any other controlled substance (as controlled substance is defined by the North Carolina General Statutes or 21 U.S.C. subsection 812) while on Forsyth Tech grounds or during the time when a student is participating in any Forsyth Tech activity, function or event off Forsyth Tech grounds.”

“Use of any drug authorized by medical prescription from a registered physician shall not be considered a violation of this rule. However, students shall be held strictly accountable for their behavior while under the influence of prescribed medicines.”

Any violation of the **Rule 7- Narcotics, Alcoholic Beverages and Controlled Substances** policy will result in disciplinary action(s) that will follow the Forsyth Tech Student Code of Conduct procedure located in the Forsyth Tech Student Handbook. The Radiography Program also considers it a Violation of Professional Standards (*Program Policies, Violation of Professional Standards*).



In addition, if the above violation were to take place in a clinical setting; the facilities Security will be notified, the student will be removed from any patient area and may be detained for their safety. The Clinical Instructor/Preceptor and/or facilities representative will contact the Clinical Coordinator and/or Program Coordinator immediately. They in turn will attempt to contact the student's emergency contact person, to arrange safe transport from the clinical setting. *Note: The student will be disciplined based on college and program policies and may be subject to disciplinary action(s) according to the clinical facility.*

#### 4.4 CAMPUS RESOURCES

	Campus Resources	Location	Phone Number
<b>Accessibility Resources</b>	<ul style="list-style-type: none"> <li>Accommodation &amp; support for students with disabilities (notetaking, interpreting, extension of testing time, assistive technology, etc.)</li> <li>Customized training &amp; workshops</li> </ul>	Strickland Center Room 2414	(336) 734-7378
<b>Admissions</b>	<ul style="list-style-type: none"> <li>Submit &amp; check application status</li> <li>Change your program of study</li> <li>Accessibility resources</li> </ul>	Robert L. Strickland Center, Room 2361	(336) 734-7556
<b>Bookstore</b>	<ul style="list-style-type: none"> <li>Purchase textbooks &amp; modules, school supplies, spirit apparel</li> </ul>	Technology Building – 1st floor	(336) 734-7100
<b>Campus Police</b>	<ul style="list-style-type: none"> <li>Report criminal activity (such as larceny-personal or Forsyth Tech owned)</li> <li>Traffic rules, vehicle registration &amp; ticket appeals</li> <li>Report first aid needed</li> </ul>	Carolina Annex	(336) 734-7243
<b>Career Services</b>	<ul style="list-style-type: none"> <li>Job search resource</li> <li>Job search skills training (networking, interview coaching)</li> <li>Resume and cover letter writing</li> </ul>	Robert L. Strickland Center, Room 2414	(336) 734-7156
<b>Cashier's Office</b>	<ul style="list-style-type: none"> <li>Payments: Tuition &amp; fees, parking decals, parking tickets</li> <li>Payment deadline information</li> </ul>	Allman Center 2 <sup>nd</sup> Floor	(336) 734-7210
<b>Counseling Services</b>	<ul style="list-style-type: none"> <li>Short-term individual counseling, stress management, anxiety &amp; depression, crisis intervention</li> </ul>	Robert L. Strickland Center, Room 2459	(336) 734-3629
<b>Financial Aid</b>	<ul style="list-style-type: none"> <li>Financial assistance for school and/or childcare</li> <li>Federal work study</li> <li>Veteran's educational benefits</li> </ul>	Allman Center Suite 261	(336) 734-7235
<b>Information Desk</b>	<ul style="list-style-type: none"> <li>General questions</li> <li>Service offerings</li> <li>Contact a specific office</li> </ul>	Allman Center Lobby	(336) 723-0371
<b>Main Campus</b>	<ul style="list-style-type: none"> <li>Switch board operator</li> </ul>		(336) 723-0371
<b>Minority Male Success Initiative</b>	<ul style="list-style-type: none"> <li>Academic support</li> <li>Goal setting &amp; positive decision-making</li> <li>Individual &amp; group mentoring</li> </ul>	Allman Center Room 114	(336) 734-7385
<b>Learning Center</b>	<ul style="list-style-type: none"> <li>Tutoring &amp; testing services</li> <li>On-campus computer lab</li> </ul>	Robert L. Strickland Center, Room 1211	(336) 734-7480

<b>Library</b>	<ul style="list-style-type: none"> <li>To access books, magazines and digital resources</li> <li>Study rooms, computer lab</li> <li>Scanning, copying &amp; print services</li> </ul>	Ardmore Hall, 1 <sup>st</sup> Floor	(336) 734-7219
<b>Record/Registrar</b>	<ul style="list-style-type: none"> <li>Obtain academic transcripts</li> <li>Updates to student record (address, name, phone number changes)</li> <li>Intent to graduate form information</li> <li>Withdrawals &amp; application for a tuition refund</li> </ul>	Strickland Center Room 2361	(336) 734-7556
<b>Shugart Women's Center</b>	<ul style="list-style-type: none"> <li>Counseling &amp; referrals</li> <li>Empowerment seminars &amp; workshops</li> <li>Women's &amp; children's boutique</li> </ul>	Robert L. Strickland, Room 479	(336) 734-7280
<b>Student Life &amp; Engagement</b>	<ul style="list-style-type: none"> <li>Student Government Association and other student clubs</li> <li>Athletic programs</li> <li>Student ID</li> <li>Campus events and activities</li> </ul>	Technology Building Room 124	(336) 734-7509
<b>Student Success Center</b>	<ul style="list-style-type: none"> <li>Advising - Academic and Peer</li> <li>New student orientation</li> <li>Student One card photo ID</li> </ul>	Robert L. Strickland Center, Room 2414	(336) 734-7156
<b>Technical Support</b>	<ul style="list-style-type: none"> <li>Report technical issues</li> <li>Software, hardware, Techlink &amp; Blackboard support</li> <li>Website: <a href="http://its.forsythtech.edu">http://its.forsythtech.edu</a></li> <li>Walk-in: M-TH 8 am – 6 pm and F 8 am - 5pm</li> </ul>	Allman Hall Room 106	(866) 517-3567
<b>Veteran Resource Center</b>	<ul style="list-style-type: none"> <li>Counseling/Advising</li> <li>Veteran benefits information (GI bill/TA)</li> <li>Computer lab access &amp; digital literacy</li> <li>Student Veteran lounge</li> </ul>	Technology Building Room 123	(336) 734-7403

#### 4.5 LIBRARY/RESEARCH FACILITIES

Library facilities include the main campus Forsyth Tech Library and the Carpenter Library of the Bowman Gray School of Medicine. A library card can be obtained upon entry into the curriculum through the Forsyth Tech Library.

An online catalog can be found through the Forsyth Tech library at:

<http://library.forsythtech.edu/ipac20/ipac.jsp?profile=#focus>

This link will contain resources for information on radiography and/or medical imaging sciences

#### 4.6 INCLEMENT WEATHER

If the college is closed due to inclement weather, all classes including clinical (day, night, and weekend) will be cancelled. Students are not allowed to participate in clinical education when the college is closed. No make-up time is permitted during holidays or when Forsyth Tech is closed. For more information regarding inclement weather, refer to "School Closing Due to Inclement Weather" in the Forsyth Tech Catalog and Student Handbook at

<https://catalog.forsythtech.edu/2324/page/academic-information>

## SECTION 5: RADIOGRAPHY PROGRAM POLICIES

## 5.0 ADHERENCE TO ACCREDITATION, PROFESSIONAL, CERTIFICATION, AND REGULATORY ORGANIZATION POLICIES

Program faculty and students must recognize and acknowledge there are policies from professional, certification, and regulatory organizations that support the Radiography Program's goals. The Program is accredited and held accountable for its actions and responsibilities by the Joint Review Committee on Education in Radiologic Technology (JRCERT). The Program faculty and students must adhere to all policies of the JRCERT, in addition to the following professional, certification, and regulatory organization policies:

- A.** The American Society of Radiologic Technologists (ASRT) ([www.asrt.org](http://www.asrt.org))
  - 1. Practice Standards for Medical Imaging and Radiation Therapy
  - 2. Code of Ethics for Medical Imaging
  - 3. Professional Radiography Curriculum
- B.** The American Registry of Radiologic Technologist (ARRT) ([www.arrt.org](http://www.arrt.org))
  - 1. Rules and Regulations
  - 2. Standards of Ethics
  - 3. Didactic and Clinical Competency Requirements
- C.** The Joint Review Committee on Education in Radiologic Technology (JRCERT) ([www.jrcert.org](http://www.jrcert.org))
  - 1. Standards for an Accredited Educational Program in Radiologic Sciences  
**(Copy in Classroom BGH W203)**
- D.** The Nuclear Regulatory Commission (NRC) ([www.nrc.gov](http://www.nrc.gov))
  - 1. Regulations Part 20: Standards for Protection against Radiation; Subpart- C, Occupational Dose Limits, 20.1201
  - 2. Regulations Part 20: Standards for Protection against Radiation; Subpart- C, Dose to an Embryo/Fetus, 20.1208
- E.** NC Department of Environmental Quality (NCDEQ)
  - 1. North Carolina Regulations for Protection Against Radiation: Chapter 11; Section .0100, General Provisions
  - 2. North Carolina Regulations for Protection Against Radiation: Chapter 11; Section .0600, X-Rays In The Healing Arts
  - 3. North Carolina Regulations for Protection Against Radiation: Chapter 11; Section .1600, Standards For Protection Against Radiation
  - 4. North Carolina Division of Radiation Protection: Electronic Product Radiation Section; Appropriate Personnel Monitoring

## 5.1 PROGRAM HOURS

Students of the Forsyth Tech Radiography Program may be asked to complete program requirements or recommendations without advanced notice during the hours of 5:00 a.m.-11:00 p.m. Monday through Friday, including Night and Weekend Clinical during 3<sup>rd</sup>, 4<sup>th</sup>, and 5<sup>th</sup> semesters. Students should prearrange their schedules by these determined hours. These hours will be in effect for the duration of the program. However, at no time will a student be scheduled more than 40 hours per week of combined classroom, laboratory, and clinical hours.

## 5.2 COMMUNICATING PROGRAM CHANGES

Program policies, requirements, and guidelines are subject to change without notice; any changes will supersede any previous versions. The student handbook will be updated and revised annually. If additional changes are made after the annual student handbook is posted, those changes will be presented in a memo form in a timely manner to each student and/or faculty affected by the change.

## 5.3 CLINICAL AFFILIATE RIGHTS

Clinical affiliates have the right to refuse access of their facility to individuals and/or students according to the clinical contract. For example, if a student has worked for a clinical site and been released with a status of 'no-rehire', the student MAY NOT be allowed to rotate at that facility or any of its affiliates. If a student is not able to meet the program competency requirements due to limited clinical facilities, the student may not be able to complete the course and program successfully, and course and program grading policies will apply.

#### 5.4 TOBACCO/NICOTINE PRODUCTS POLICY

No use of tobacco/nicotine products including cigarettes, e-cigarettes, vaporizers, and “chewing or spit tobacco” will be allowed within the Radiography classroom, laboratory, or clinical settings at any time. Violation of the policy will result in immediate removal of the student from the classroom, laboratory, or the clinical setting. The program considers this a direct violation of the Professional Standards (*Program Policies, Violation of Professional Standards*).

#### 5.5 USE OF PROFANITY POLICY

Use of profanity or inappropriate language is not permitted in the classroom, laboratory, or the clinical setting. Violation of profanity policy may result in removal from the area. The Radiography Program considers this a Violation of Professional Standards (*Program Policies, Violation of Professional Standards*).

#### 5.6 RADIOGRAPHY PROGRAM TECHNICAL STANDARDS

Our program technical standards have been developed to help students understand nonacademic standards, skills, and performance requirements expected of a student in order to complete an associate degree in Radiography (Radiologic Technology). A prospective radiography student must demonstrate the physical and psychological ability to provide safe, competent patient care. Prospective students must assess their own abilities when choosing radiography as a career. To understand the physical and psychological qualifications needed for successful radiographers, the program technical standards are listed below.

If an accommodation is necessary to participate in the program, it is imperative to identify a reasonable accommodation to those students who qualify under the Americans with Disabilities Act (ADA). Reasonableness is determined by the Disability Services Office (DSO) and the program on a case-by-case basis utilizing the program technical standards. The accommodation needs to be in place prior to the start of the program, or it may delay the student’s ability to start the program. It is the student’s responsibility to contact the DSO and request accommodations.

Students will be asked to acknowledge their ability to meet the program technical standards by signing a confirmation statement at the program’s orientation. Students will be tested and evaluated for the duration of the program. Failure to meet any technical standard will result in immediate dismissal from the program.

Skills	Description	Specific Examples
Communication	Oral and written communication skills to communicate in English with accuracy, clarity, and efficiency with patients, their families, and other members of the healthcare team, including non-verbal communication, such as interpretation of facial expressions, affect and body language.	<ul style="list-style-type: none"><li>• Communicate with clear dictation and in a concise manner to patients, visitors, and other healthcare professionals in various departments</li><li>• Read, type, and write appropriate instructions and documentations in patients’ charts, notes, and medical records accurately</li><li>• Elicit information and cooperation (i.e.: obtaining patient history, giving breathing instructions)</li><li>• Describe changes in a patient’s mood, activity, and posture</li><li>• Perceive nonverbal communication (i.e.: pain, lack of understanding)</li><li>• Recognize and report critical patient information to other caregivers</li></ul>

<p>Critical Thinking/ Problem-Solving</p>	<p>Critical thinking and problem-solving skills sufficient for sound clinical judgment during the performance of radiography.</p>	<ul style="list-style-type: none"> <li>• Organize and accurately perform in proper sequence, and within a specified time, the steps required for radiographic procedures</li> <li>• Ability to remember and recall large amounts of information</li> <li>• Ability to accurately read and transcribe illegible handwriting</li> <li>• Ability to quickly assess patients' conditions and other emergent situations, determine appropriate courses of action, request assistance or delegate responsibilities to coworkers, and/or respond as needed</li> <li>• Solve problems (i.e.: mathematical computation)</li> <li>• Comprehend three-dimensional relationships (i.e.: anatomical relations)</li> <li>• Understand the spatial relationship of structures</li> <li>• Critical Thinking/ability sufficient for clinical judgement (i.e.: modification of radiographic procedures and/or technical factors to accommodate patient age/or condition</li> </ul>
<p>Emotional/Behavioral</p>	<p>Emotional stability and appropriate behavior sufficient to accept responsibility/accountability for actions</p>	<ul style="list-style-type: none"> <li>• Deliver unbiased patient care</li> <li>• Establish rapport with patients, healthcare workers, instructors and peers</li> <li>• Ability to calmly and respectfully cope in stressful situations, emergency situations, or in situations involving other personnel</li> <li>• Accept constructive and professional criticism</li> <li>• Follow all program, college, and clinical site policies</li> <li>• Expected to maintain confidentiality at all times</li> <li>• Expected to adhere to the ARRT/ASRT Code of Ethics and Rules of Ethics</li> </ul>
<p>Environmental Tolerance</p>	<p>Radiography students may be exposed to communicable diseases and/or blood and body fluids, toxic substances, medical preparations, latex, and ionizing radiation. Students shall use appropriate precautions at all times.</p>	<ul style="list-style-type: none"> <li>• May care for patients with a communicable disease and shall provide all care using universal precautions</li> <li>• Possible exposure to chemicals, irritants, and latex and shall follow all safety and health protection guidelines</li> <li>• May be exposed to ionizing radiation and shall follow radiation protection guidelines at all times</li> <li>• Ability to work in a noisy environment with frequent interruptions</li> </ul>

Hearing	Auditory ability sufficient for physical monitoring and assessment of patient health care needs and during performance of radiography.	<ul style="list-style-type: none"> <li>• Ability to hear, understand, and respond appropriately to comments, questions, and instructions given in person, over the phone, or from a distance including those given when personnel are wearing surgical masks.</li> <li>• Ability to hear various equipment and background sounds during equipment operations</li> <li>• Hear normal speaking level sounds, auscultatory sounds, and auditory alarms (i.e.: equipment, monitors, fire alarms, call bells, emergency signals, and cries for help)</li> </ul>
Motor Skills	Motor abilities required for radiography include gross and fine muscular movements, equilibrium, strength, and functional use of all combined senses for the safe handling of patients, self, and equipment.	<ul style="list-style-type: none"> <li>• Regularly reach up to six (6) feet off the floor</li> <li>• Push, pull, or lift fifty (50) pounds of weight</li> <li>• Transfer immobile patients from stretcher to radiographic table with some assistance from other personnel</li> <li>• Push standard and oversized patient wheelchairs, as well as mobile (portable) x-ray equipment to and from various areas</li> <li>• Standing for extended periods of time along with frequent bending and kneeling</li> <li>• Wearing a five (5) pound lead apron for extended periods of time</li> <li>• Elicit information from patients by palpation, percussion, testing muscle strength and function, penetration of the skin, and other diagnostic maneuvers</li> <li>• Safely perform diagnostic, therapeutic procedures and/or laboratory procedures</li> <li>• Provide other patient services and patient associated services</li> <li>• Safely lift, manipulate, and use equipment</li> <li>• Manual dexterity for patient positioning and with accessory devices and equipment controls</li> <li>• Move within confined spaces such as treatment rooms, patients' rooms, or operating rooms</li> <li>• Administer CPR and maintain current certification</li> </ul>

<p>Professional Attitudes and Interpersonal Skills</p>	<p>Present with professional appearance and demeanor; follow instructions and safety protocols and maintain a positive attitude. Demonstrate honesty and integrity beyond reproach.</p> <p>Possess interpersonal abilities sufficient to interact with individuals, families, groups, etc. from a variety of social, emotional, cultural, and intellectual backgrounds.</p>	<ul style="list-style-type: none"> <li>• Allow mature, sensitive, and effective relationships with patients, healthcare workers, instructors, and peers (interpersonal skills)</li> <li>• Maintain all professional boundaries</li> <li>• Display flexibility and adaptations while working with diverse populations</li> <li>• Effectively work within a team and workgroups</li> <li>• Provide prompt and safe completion of all patient care responsibilities</li> <li>• Exhibit ethical behaviors and exercise good judgement</li> <li>• Display the following: <ul style="list-style-type: none"> <li>• Compassion</li> <li>• Empathy</li> <li>• Integrity</li> <li>• Concern for others</li> <li>• Interest and motivation</li> </ul> </li> </ul>
<p>Smell</p>	<p>Olfactory ability sufficient to detect significant environmental and patient odors.</p>	<ul style="list-style-type: none"> <li>• Detect odors from patient (foul smelling drainage, alcohol breath)</li> <li>• Detect burning and/or smoke</li> </ul>
<p>Technological</p>	<p>Adaptability and skills to utilize current electronic, digital, and medical technologies.</p>	<ul style="list-style-type: none"> <li>• Utilize keyboard or touchscreens for selection and inputting of clinical data into consoles, computers and charts</li> <li>• Adapting to different technologies within the medical field, especially medical imaging</li> </ul>
<p>Vision/Observation</p>	<p>Normal or corrected visual ability sufficient for accurate observation and performance of radiography in bright, normal, or dim lighting.</p>	<ul style="list-style-type: none"> <li>• Visually monitor patients</li> <li>• View anatomy and appropriate imaging techniques on radiographic images displayed on hard copy or computer screen, all within a low light environment</li> <li>• Observe changes in equipment operation (i.e.: warnings)</li> <li>• Safely work in dimly lit rooms</li> <li>• Observe and evaluate (i.e.: patient’s body habitus, image receptor sizes and selection of appropriate radiographic exposure factors.)</li> <li>• Skillfully use precision instruments such as microscopes, oscilloscopes, gauges, control panels, and other electronic and digital equipment</li> <li>• Observe the results of certain stimuli (i.e.: medication reaction, patient’s skin color changes</li> <li>• such as cyanosis or pallor)</li> </ul>



Other	Adapting to Radiography Program course and clinical schedules, including any unforeseen changes.	<ul style="list-style-type: none"> <li>• Ability to work long and/or varied hours</li> <li>• Tolerate physically taxing workloads</li> <li>• Adapt to changing environments (i.e.: flexible schedules)</li> </ul>
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This document is intended to serve as a guide regarding the physical, emotional, intellectual, and psychosocial expectations placed on a student. This document cannot include every conceivable action, task, ability, or behavior that may be expected of a student. Meeting these technical standards does not guarantee employment in this field upon graduation. Ability to meet the program's technical standards does not guarantee a student's eligibility for any licensure, certification exam, or successful completion of the degree program.

## 5.7 PROGRAM CURRICULUM CRITICAL REQUIREMENTS

### GENERAL

**Medical Terminology:** Successful completion with an average grade of 80 or higher on all medical terminology quizzes.

**Radiation Protection Seminar:** This is a mandatory lecture designed to give the student basic knowledge in medical uses of radiation protection. Each student must sign the attendance roster before admittance to a clinical facility. The attendance roster will be kept on file.

### PROCEDURE LABS

#### **RAD 111- Procedures I, RAD 112- Procedures II & RAD 211- Procedures III**

- Students must score 78% or higher on each Energized Lab Test
- If a student does not pass, they will be allowed to retest (their initial lab test score is recorded for grade)
- Any retest must be taken on the designated retest date
- Only one retest is allowed per semester
- A second failed attempt will result in a grade of F for the course and student will be dismissed from the program (*Program Policies, Program Readmission Policy*)
- Students are expected to arrive prior to or at their assigned testing time. Point deductions will apply for lateness.

### CLINICAL ONBOARDING

**American Data Bank/Complio:** All required documents must be downloaded on or before the designated due date(s).

- Malpractice - paid in 1st and 4th semesters
- Medical Forms – completed and including all immunizations
  - To enter and remain in the program, all admission requirements for vaccinations must be met
- Cardiopulmonary Resuscitation Course (CPR) American Heart Association - Health Care Provider/Basic Life Support – must be kept current throughout the entire program

**MyClinicalExchange:** Required online depository portal used to manage the scheduling for clinical rotations.

**Clinical Onboarding Packets:** All required documents from the various clinical affiliates whether online and/or hard copy must be completed on or before the designated due date(s).

### CLINICAL

**Clinical Participation:** The student is required to complete all course objectives at each rotation by **actively participating** in the clinical settings. Clinical participation is a component of the final clinical course grade.

**Clinical Competencies:** A minimum number of clinical competencies must be met for each clinical course (see course syllabus).

This does not apply to students who have completed all the ARRT required clinical competencies.

**Night/Weekend Clinical:** Evening and weekend shift rotations are valuable learning experiences. Students are exposed to a variety of procedures that may not be available during day clinical rotations. Night and weekend clinical may be scheduled anytime during 3<sup>rd</sup>, 4<sup>th</sup>, and 5<sup>th</sup> semesters.

#### **RAD 171- Clinical Education III Simulated Competency Exam**

- The exam score will be calculated as a final percentage of the clinical course grade
- Students must score 78% or higher on each Competency Exam
- If a student does not pass, they will be allowed to retest (their initial score is recorded for grade)
- Only one retest is allowed per course
- A second failed attempt will result in a grade of F for the course and student will be dismissed from the program (*Program Policies, Program Readmission Policy*)
- Students are expected to arrive prior to or at their assigned testing time. Point deductions will apply for lateness

#### • **RAD 261- Clinical Education V Final Exit Competency Exam**

- The exam score will be calculated as a final percentage of the clinical course grade
- Students must score 78% or higher on each Competency Exam
- If a student does not pass, they will be allowed to retest (their initial score is recorded for grade)
- Only one retest is allowed per course
- A second failed attempt will result in a grade of F for the course and student will be dismissed from the program (*Program Policies, Program Readmission Policy*)
- Students are expected to arrive prior to or at their assigned testing time. Point deductions will apply for lateness.

### 5.8 PROGRAM STUDENT PARTICIPATION POLICY

The educational philosophy of the Radiography Program of Forsyth Technical Community College that knowledge is best gained when the learner is actively involved in the educational process; students will be expected to actively participate in all aspects of the program. The students' education is a continual process so instruction, skills practice, soft skills, patient care, and continued learning should be ongoing, strengthened and refined for the duration of their program. Based on this philosophy the expectation is that students will be motivated, positive, and constructive in their pursuit of learning. The Radiography Program has the right to dismiss any student at any time when it is deemed necessary to safeguard Forsyth Tech's ideals of scholarship and character, Radiography Program policies, and secure compliance with regulations.

### 5.9 ACADEMIC PROGRESSION IN RADIOGRAPHY POLICY

Students who achieve a minimum of 78 (C) or higher overall competency for each Radiography (RAD) course will be eligible to progress in the Radiography program. **Numerical grades below 78% (C) in Radiography (RAD) courses are considered unsatisfactory attainment of course competencies and will result in the student not progressing in the program.**

### 5.10 IMAGING ACADEMIC APPEAL POLICY

Any appeal of a course grade should begin with a scheduled conference between the student and instructor of record by the first day of a new semester. If the appeal is not resolved at this level, the student should contact and arrange for a conference with the program coordinator. The student has the responsibility of providing the program coordinator with a written letter of appeal by the third class day of the new semester for the appeal to be considered.

The letter of appeal must include:

- Date, student's name, signature, and telephone number.
- Prefix and number of course grade being appealed.
- Instructor of record's name issuing the grade.
- A letter of three pages or less containing factual and valid reasons why the student thinks the grade is incorrect. The program coordinator may return the letter to the student to clarify, to add factual information or to state reasons for the appeal. The revised letter must be returned to the program coordinator within two business days.
- Any supporting documentation the student feels is needed to better explain the student's questions as to grade determination.

After conferencing with the program coordinator, if the issue is still not resolved, the student will notify the Department Chair of Imaging to schedule a meeting. The meeting will take place within two business days.

After conferencing with the Department Chair of Imaging, if the issue is still not resolved, the student will notify the Associate Dean of Health Sciences to schedule a meeting. The meeting will take place within two business days.

If the issue is still not resolved, the student may appeal to the V.P. of Health Sciences in writing (within two business days of meeting with the Associate Dean of Health Sciences). The Associate Dean of Health Sciences will forward the letter of appeal and supporting documentation to the V.P. of Health Sciences. The V.P. of Health Sciences will then convene a committee (within three business days) to hear the appeal. The committee may reject the appeal if policies and procedures have not been followed by the student.

The committee will hear the appeal and make a final decision (within three business days) which will be reported to the V.P. of Health Sciences. Within 24 hours of receiving the information, the V.P. of Health Sciences will communicate the committee's decision to the student, the program coordinator, the Department Chair of Imaging, and the Associate Dean of Health Sciences. The decision of the committee is final.

## 5.11 COURSE INCOMPLETE POLICY

### Didactic/Lab

- Radiography faculty needing to assign a grade of Incomplete must complete the *Terms of Agreement for Incomplete Grade Form*. A copy of this agreement will be sent to the student's email as proof of their knowledge of the content of this form.
- An Incomplete can only be given if the student has completed at least 75% of the course requirements.
- An Incomplete should only be given after the instructor has communicated with the student and the student wants to attempt to complete the class after the course has ended. The student should understand the work that must be completed to remove the "Incomplete" grade and agree to the completion dates as outlined in the *Terms of Agreement Incomplete Grade Form*.
- All RAD Incomplete coursework must be completed by the first day of the following semester.
- If the student does not complete the work as outlined and earn a passing grade by the due date, the grade of "I"
  - automatically becomes an "F" and is computed in the same manner as an "F" grade or in case of emergencies, such as COVID-19, "IE" automatically becomes an "F" and is computed in the same manner as an "F" grade. If a grade of "F" is given the student will be dismissed from the program.
- Students must understand that it is their responsibility to contact the instructor (or Program Coordinator) regarding questions and turning in assignments as outlined above.
- Any student receiving more than **(1) one Incomplete** will be dismissed from the program (*Program Policies, Program Readmission Policy*).

### Clinical

- Absences exceeding the number of clinical days provided as make-up days at the end of the semester will result in an
  - **Incomplete** for the clinical course. Make-up days are listed on the student's clinical schedule.
- If absences have exceeded make-up time allotted for a clinical course, a grade of **INCOMPLETE** will be recorded.
- Failure to complete clinical course objectives OR course contact hours will result in an "F" issued for the clinical course and the student will be dismissed from the program.
- All requirements listed under the didactic portion must be completed for clinical as well.

## 5.12 BACKGROUND CHECK/ DRUG SCREENING POLICY

Clinical facilities require criminal background checks and/or drug screening for students assigned to their facilities. After the student completes the requirements of the facility, the clinical agency will notify the college if a student will not be allowed at the site due to a finding on the criminal background check or drug screen. Specific information will NOT be disclosed to the college. If a student is denied clinical access based on criminal background checks and/or a drug screen, the student will NOT receive a secondary placement in another facility. The student will not be able to progress in the program due to the inability to meet the clinical objectives. The student may discuss the findings of the criminal background checks and/or drug screening with the third-party vendor which provided the criminal background check and drug screening.

National and/or state registry and/or licensure or certification boards may prohibit eligibility for registry or licensure based on criminal background records. Information regarding individual eligibility may be obtained from the appropriate credentialing bodies.

### **Drug Screening Test Results Policy**

Any student who fails drug screening will lose their seat in the program and will be referred for career counseling through the college.

If the failure of the drug screening is due to the following, the student will proceed accordingly:

- Diluted drug screening- The student will have one chance to repeat the drug screening within a given time limit. If the student has a second diluted result, the student will lose their seat in the program.
- Lab error- The student will take another drug screening.

When students are attending clinical education, they must abide by all college, program, and clinical affiliate policies and procedures, which are umbrellaed under program policies. The procedures for drug testing will vary at each clinical affiliation. Students must review the procedures for drug testing and complete the Clinical Site Orientation Checklist form upon entering a clinical assignment at each clinical affiliation.

- A student who is suspected of being under the influence of narcotics, alcoholic beverages, or controlled substances may be asked to submit to a drug test at the student's expense.
- To ensure patient safety, the student may be asked to leave the clinical site in which the incident occurred.
- If a student is asked to leave the clinical site, the student must leave immediately and maintain their professional behavior while exiting the department.
- Any missed clinical education time must be made-up.
- A "positive" test for narcotics, alcoholic beverages, or controlled substances while attending clinical education is a violation of college and program policies and will result in immediate dismissal from the program.

## 5.13 DRESS CODE POLICY

### **GENERAL**

The personal appearance and demeanor of students reflects the college and the program standards as well as the student's interest and pride in the profession. Students will be allowed to wear casual attire during class or lab excluding:

- short shorts (Must be no shorter than 2 inches above the knees)
- tank tops
- spaghetti straps tops
- torn jeans
- halter tops
- offensive tee shirts

- see-through attire
- bare midriffs and bare backs (crop tops)
- plunging necklines
- low-cut pants with underwear showing
- pajamas

If this type of clothing is worn in class or lab, the student will be asked to leave since this does not present a professional image.

Note: It is up to the instructor's discretion to determine clothing appropriateness.

## **LAB**

In addition to the general dress code, dresses and/or skirts are not allowed during labs due to the nature of positioning for procedures courses and with participation during imaging experiments. A dosimeter is required for all lab activities.

## **CLINICAL (See *Clinical Policies, Dress Code, for Additional Information*)**

Students are expected to dress professionally and be professional at all times in their assigned clinical rotations. The program has taken into consideration dress codes from all clinical affiliates and has established the following to ensure compliance.

Required Uniform:

- Uniforms (2 sets of designated colored scrubs)
- Scrub Jacket (Same color as scrubs)
- Both uniform and scrub jacket must have Forsyth Tech Student monogram
- Optional:
  - Males - a white or black short or long sleeve t- shirt may be worn under scrub top
  - Females - a white or black camisole or t-shirt may be worn under scrub top
- Required Shoes:
  - Polished white or black leather impermeable shoes without insignias
  - Socks or hose must match the students shoe color
- Other Requirements:
  - Forsyth Tech ID badge
  - Clinical facility ID badge (where required)
  - Lead markers with student's initials (2 sets)
- Dosimeter - students must wear their dosimeter for all clinical assignments and abide by the Radiation Monitoring Device (RMD) policies (Forsyth Technical Community College Health Technologies-Imaging Division Radiation Safety Plan, Radiation Monitoring Device (RMD). Failure to do so will result in removal of the student from clinical. Time missed must be made up.

The above items must be worn at all times during clinical assignments

## **5.14 PERSONAL HYGIENE POLICY**

Students are expected to take pride in their personal appearance and hygiene. First impressions are critical when meeting patients and their families and may influence the professional rapport you are able to establish with them. Equally important is how students are regarded by their instructors, peers, clinical staff, and physicians who may serve as a future job reference, employer, or colleague.

Students must demonstrate acceptable personal hygiene. Examples, but not all inclusive: Daily bathing with soap,

shampooing hair, shaving, brushing teeth, and wearing deodorant.

In addition, no perfume, scented body sprays, lotions, creams, aftershave, or scented hair spray may be worn. Individuals, especially patients' sense of smell is often heightened and extremely sensitive to odors. They may be offended or sickened by certain scents and smells.

Failure to comply with the appropriate personal hygiene policy may result in the student being sent home. Any absence due to personal hygiene violations will be considered an unexcused absence. Any time missed during clinical education due to personal hygiene violations must be made-up.

#### 5.15 ELECTRONIC DEVICES POLICY

The Radiography Program faculty considers the use of electronic devices to be disruptive in the classroom, laboratory, and clinical settings. Therefore, students must not have electronic devices **out** or **on** while attending class, lab, or clinical.

Electronic devices include, but are not limited to, smart watches, laptops, netbooks, PDAs, and recording devices. Photos are **NOT** to be taken in the classroom, laboratory, or clinical settings.

The use of electronic devices is a direct violation of most, if not all, clinical affiliates' policies, rules, and regulations; therefore, it violates program policy. They may even interrupt the operation of some medical devices. Therefore, this policy will be strictly enforced.

Electronic recording devices are not allowed in classes, labs, or clinical.

Students who do not comply with the program's electronic devices policy will be considered in violation of the Professional Standards (Program Policies, Violation of Professional Standards), and appropriate disciplinary actions will be taken.

#### 5.16 MAGNETIC RESONANCE IMAGING SAFETY POLICY

Magnetic Resonance Imaging (MRI) utilizes a powerful magnetic field to produce images of the human body. Any metallic object(s) on or within the body could be affected by the strong magnetic field if you were to enter the scan room. As radiography students' clinical rotations could place you in, or near the MR environment, or directly in the scan room.

##### **Below is the Magnetic Resonance Imaging Safety Protocol:**

- All students are required to complete an MRI Safety Screening Form during orientation that will screen for any potential magnetic wave or radiofrequency hazards.
- Students must take part in an MRI safety presentation prior to the start of Clinical.
- Students must complete a second MRI Safety Screening Form prior to 4th semester.
- If a student answers yes to any of the screening questions and it is determined that their safety is at risk, they will not be allowed to go near or enter the MR environment. The Clinical Coordinator will communicate the known safety hazards of the student to the Clinical Instructor/Preceptor(s) as well as to the respective clinical sites the student will be attending. The Clinical Coordinator will ensure an additional safety tour indicating prohibited areas is provided to the student on the first day of clinical at their assigned clinical site(s). Be advised, the MR magnet is always **ON**.
- Students must remove all metallic object(s) (specific list of hazards will be covered in the MRI safety presentation) before entering the MR environment.
- The student will be responsible to advise the Clinical Coordinator immediately of any changes that could potentially alter the results of the MRI Safety Screening Form.

## 5.17 MRI SAFETY ZONES AND SIGNAGE

**SIGNAGE-** The Zone signs may be placed in the MRI suite



- **Zone I** –All areas accessible to the general public
- **Zone II** –area between the public-accessible Zone 1 and the restricted areas of Zones III and IV.
- **Zone III** –area where free access by unscreened non- MR personnel or ferromagnetic objects or equipment can result in serious injury or death.
- **Zone IV** –actual area with the MRI scanner.

## 5.18 ROTATION POLICY FOR MAMMOGRAPHY AND HYSTEROSALPINGOGRAM (HSG)

All students, male and female, will be offered the opportunity to participate in clinical mammography rotations and HSG exams. The program will make every effort to place a male student in a clinical mammography rotation if requested; however, the program is not in a position to override clinical setting policies that restrict clinical experiences in mammography and HSG exams to female students. Male students are advised that placement in these rotations is not guaranteed and is subject to the availability of a clinical setting that allows males to participate in mammographic imaging and HSG procedures. The program will not deny female students the opportunity to participate in mammography rotations if clinical settings are not available to provide the same opportunity to male students. Additionally, the policy may be applied to any imaging procedures performed by professionals who are of the opposite gender of the patient.

The program's policy regarding student clinical rotations in mammography is based on the sound rationale presented in a position statement on student clinical mammography rotations adopted by the Board of Directors of the Joint Review Committee on Education in Radiologic Technology (JRCERT) [www.jrcert.org](http://www.jrcert.org)

## 5.19 SOCIAL NETWORKING/ELECTRONIC COMMUNICATIONS POLICY

The Radiography faculty expects students to practice professional behaviors of confidentiality as well as to follow legal and ethical standards of conduct as stated in the Forsyth Tech Student Code of Conduct, ARRT Code of Ethics, and Radiography Program Standards. Students who use any web-based services that allow individuals to construct a public or semi-public profile and form relationships with other users of the same site who access their profile must abide by this policy. Students will be expected to always maintain confidentiality policies (HIPAA). No reference is to be made about clinical sites, patients, clinical staff, or Forsyth Tech employees at any time. Failure to abide by this policy will result in disciplinary action, which may include dismissal from the Radiography program (*Program Policies, Violation of Professional Standards*).

## 5.20 STUDENT EMPLOYMENT POLICY

Students may accept employment with clinical affiliates in the capacity of transport, clerical, or student technologist. The program takes **no** responsibility for student preparedness but suggests that the clinical competency listings be used to determine independent practice. The scheduled work hours will not be counted toward fulfillment of clinical course hours.

While Forsyth Technical Community College's Radiography Program does not control student employment in radiology departments of its clinical affiliates or other areas, the following statements should be adhered to by all students enrolled:

- At no time must a student in the program be on-site working as an employee of the clinical affiliates while enrolled in regularly scheduled Radiography Program classes/labs/clinical that occur concurrently. If this were to happen, the student would be dismissed from the program.
- 3<sup>rd</sup> shift work, prior to day clinical, is strongly discouraged. If a student reports to a clinical site impaired due to fatigue, they will be removed under the unsafe policy.
- Radiography students must **NOT** wear their Program-issued radiation monitoring device while functioning as employees of a clinical affiliation or healthcare facility.
- Note: If a student receives an excessive radiation dosage dosimeter reading(s), this will be considered in continuation in the Radiography Program. If, because of the excessive dosage, a student cannot complete the required clinical contact hours, the student will be dismissed from the program.

### 5.21 STUDENT MEDICAL INSURANCE

All students are strongly recommended to have personal medical insurance coverage. Neither Forsyth Tech nor the clinical affiliates are liable for injury to individual students. Since the student is not employed by the school or the clinical facility, the student will be responsible for all incurring expenses.

### 5.22 COLLEGE AND PROGRAM STUDENT ACCIDENT OR EXPOSURE POLICY

Accident insurance covering the hours students are in school, on field trips, or participating in student activities is provided to all full-time and part-time students. Student insurance is furnished by Forsyth Tech as a service to students, but it is not meant to replace students' personal coverage.

In the event of an Injury, the student should:

1. Report to a Physician or Hospital.
2. Coverage is excess to all other insurance. Claims must be filed with your other insurance carrier(s) prior to filing under this Plan.
3. Complete and sign a claim form. Please submit one claim form for each Injury. Mail or bring physical copies of the completed claim form, all medical bills, incident report (if available) and copies of your other insurance carrier's Explanation of Benefits (if applicable) to:

**Mailing Address:**

Forsyth Technical Community College  
Business Services - Allman Building - 2nd Floor  
2100 Silas Creek Parkway Winston-Salem, NC 27103

**Email:**

Kate Hopper [khopper@forsythtech.edu](mailto:khopper@forsythtech.edu)  
Sharon Ruchala [sruchala@forsythtech.edu](mailto:sruchala@forsythtech.edu)

**Physical location:**

Main Campus - Allman Building -2nd Floor  
Business Office Suite  
2100 Silas Creek Parkway  
Winston-Salem, NC 27103

4. File claim within 30 days of Injury. Bills should be received by the Company within 90 days of service. Bills submitted after one year will not be considered for payment except in the absence of legal capacity.
5. If you have questions about a claim, contact: Doug Sutton Insurance Services at (800) 788-7771 or [bonniesutton@dougssuttonins.com](mailto:bonniesutton@dougssuttonins.com). Once we receive the completed form with the proper signatures, we will send to our insurance company, Doug Sutton & Associates, for processing. Please keep an eye out from any



communications from the insurance company for your next steps and any other information related to your claim.

**If an injury occurs during clinical education, see “Clinical Education Information and Policies, 8.14 Student Accident or Exposure Guidelines.”**

### 5.23 OPEN LAB

Open Lab is a valuable resource for radiography students, with hours available during late afternoons, evenings, and some Saturdays. Open Lab provides scheduled times for tutoring and skills practice. Open Lab time can be scheduled online on a first-come, first-served basis, depending on availability. All Open Lab rules and policies must be followed, or the student may have lab privileges revoked. Note: students are NOT allowed to utilize Open Lab during any of their regularly scheduled classes or clinical times. While Open Lab is a privilege, it could be limited or discontinued under special circumstances as determined by the faculty.

### 5.24 PREGNANCY POLICY

At any time during the program, if a student were to become pregnant, they must follow the pregnancy guidelines listed in the Radiation Safety Plan (*Forsyth Technical Community College Heath Tech Division- Imaging Department Radiation Safety Plan*).

Summation of the pregnancy guidelines:

- Are consistent with applicable federal regulations and state laws
- That written notice of declaration is **voluntary**.
- To declare pregnancy, a Pregnancy Declaration Form will need to be completed and submitted to the Program Coordinator. This must include a statement from the physician verifying pregnancy, conception date, and expected due date
- Offers student continuance in the program without clinical education modifications
- Offers student continuance in the program with modification of clinical rotations (i.e.: fluoroscopy, portables and surgery).
  1. all objectives and competencies will need to be completed prior to graduation
  2. Strict adherence to all safety precautions
  3. Submit monthly statements from the physician about any changes in pregnancy and the advisability of continuing full-time.
  4. Wear RMDs, one on the collar and one on the abdomen for fetal monitoring. The second dosimeter shall be worn at waist level beneath any leaded protective apron and, in no circumstance, is this dosimeter to be exchanged with the student's primary dosimeter worn outside the apron at collar level. The student radiation exposure will be monitored closely by the Program Coordinator or Clinical Education Coordinator.
- Offers written withdrawal declaration with readmission based on college readmission policy
- For any incompletes, see *Radiography Program Policies, 5.8 Incompletes*
- Students must submit a doctor's note if there are any changes to medical restrictions during the pregnancy.

The Forsyth Technical Community College Heath Tech Division- Imaging Department Radiation Safety Plan contains the pregnancy policy in its entirety.

### 5.25 RADIATION MONITORING DEVICE (RMD) RETURN POLICY

In conjunction with the Forsyth Technical Community College Health Technologies-Imaging Division Radiation Safety Plan (Section V), the following pertains specifically to the Radiography program.

All radiography students and faculty are responsible for timely return of their radiation dosimeter.

- Dosimeters are exchanged on a two-month cycle.
- Dosimeters are located in the Radiography Lab, Bob Greene Hall Room 112.
- Students and faculty are responsible for exchanging their dosimeter within 5 business days of notification to their Forsyth Tech e-mail account. *Note: Points may be deducted from a student's Clinical Performance Evaluation if this policy is not met.*
- Radiation Exposure Reports based on the result of the radiation monitoring will be available quarterly upon receipt of the report.
- Students and faculty must review, sign, and acknowledge the Radiation Exposure Report within 5 business days of notification to their Forsyth Tech e-mail account. *Note: Points may be deducted from a student's Clinical Performance Evaluation if this policy is not met.*
- It is the responsibility of students and faculty to monitor their own radiation exposure. Contact RSO or Clinical Coordinator with any concerns.
- Immediately contact the Clinical Coordinator in the event of a lost or damaged dosimeter. *Note: students are not allowed to participate in labs, open lab, or clinical without a valid dosimeter.*

## 5.26 TRANSFERRING INTO THE RADIOGRAPHY PROGRAM POLICY

If a student is currently enrolled in a radiography program at another college or university and they are interested in transferring into the radiography program at Forsyth Tech, there are specific requirements that must be met for the student to be considered for admission beyond the first semester.

The student must have successfully completed at least the first semester of a radiography program and the first semester must have included radiography coursework (i.e., RAD 110, RAD 111 and RAD 151 clinical) to be considered for transfer.

### Application Process:

All transfer applicants must consult with Nancy Andrews-Hall, Program Coordinator of Radiography, [nandrews-hall@forsythtech.edu](mailto:nandrews-hall@forsythtech.edu) prior to starting the application process to discuss eligibility and appropriate placement. Applicants may be required to repeat RAD courses that have been taken in a different sequence than our curriculum sequence at Forsyth Tech.

### Additional Requirements:

- Admission is based on clinical and laboratory availability.
- The student must initiate the admission process and schedule a meeting with the Radiography Program Coordinator.
- Meet all admissions requirements for the college and the Radiography program as posted in the admission MAR packet and college catalog.
- Submit a letter from their current Radiography Program Director stating they left their current program in good academic and behavioral standing.
- The student will be required to complete a background check and drug screen through the Forsyth Technical Community College provider at their expense.
- A medical form, all immunizations, and American Heart Association BLS CPR requirements must be up to date.
- The student will be required to pass written and laboratory skills tests for placement.
- The student will be placed in the appropriate semester as determined by testing and the Program Coordinator (student may have to repeat some courses). **After consultation and confirmation of eligibility with Professor Andrews-Hall, applicants should proceed with the following steps:**
  1. Go to the Admissions Office and/or complete the online Residency Determination Service (RDS) and Application for Admission. When asked for the program of study on the application, you must indicate or select "Radiography Transfer."

2. Submit official transcript from high school/GED.
3. Submit official transcripts from **ALL** colleges attended.
4. Applicants must also demonstrate English, Reading and Math Competencies to be eligible for program consideration. (See the Radiography MAR packet for details about these requirements.)

**All transcripts, placement test scores (if needed) and current TEAS scores from outside colleges must be submitted at the time of application.**

**TEAS (Test of Essential Academic Skills) Requirement:**

All qualified applicants will be required to submit valid TEAS results with a passing rate of 60% or higher. If the student has taken the most recent version of TEAS within the past 2 years, they must submit those scores with their application.

If the student has not taken the TEAS or their test has outdated, they will be eligible to take the test at Forsyth Tech. They will need to let Admissions know if they plan to take TEAS here.

Once the student's file is complete, it will be sent to the Radiography Program Coordinator for review and a final determination will be made regarding admitting transfer applicants. Forsyth Tech readmitted students will have priority over transfer applicants. Ranking will occur just as for beginning radiography students.

**PLEASE NOTE:** Transfer applicants must have a "B" or higher in RAD courses and a "C" or higher in the radiography related courses (see the Radiography MAR packet) to be eligible for consideration for transfer.

- **Eligible radiography transfer applicants are accepted on a space availability basis. Due to the determination of space availability and appropriate placement, transfer applicants will be notified by the radiography department regarding their status. Questions about transfer status should be directed to the Radiography Program Coordinator.**
- **Final approval for transfer is approved by the Radiography Program Coordinator.**

#### 5.27 RADIATION SAFETY PRACTICE POLICY

Students are not allowed to hold image receptors during any radiographic procedure. Additionally, students are not allowed to hold patients during any radiographic procedure when an immobilization method is the appropriate standard of care. This applies to clinical, lab, and Open Lab.

#### 5.28 UNSAFE PRACTICE POLICY

**Violations of the Unsafe Practice Policy are effective for the duration of the program and are cumulative.**

If a student performs an unsafe procedure in the clinical setting or in the lab environment causing possible harm to the patient, others, or themselves, the student will be removed from the clinical assignment or lab until the incident is investigated and appropriate action is determined.

Unsafe practice will include, but not be limited to:

1. Performing procedures, or use of any ionizing radiation without direct or indirect supervision
2. Injuring the patient, clinical staff, Program's faculty, themselves, or others
3. Damaging equipment, accessories, or physical facilities
4. Failure to protect the patient, clinical staff, Program's faculty, themselves, or others from accidental or unnecessary radiation exposure
5. Failure to wear radiation monitoring device
6. Excessive permissible radiation doses
7. Failure to practice Universal Precautions or utilize personal safety devices when appropriate or required

8. Being under the influence of narcotics, alcoholic beverages, or controlled substances

- 1<sup>st</sup> incident will result in:
  - o 10-point reduction of the final course grade
  - o Written documentation of the violation, additionally, depending on the severity of the incident, will result in:
    - Probation for the remainder of the program
    - Removal from classroom, lab, or clinical setting (amount of time will be determined)
    - Dismissal from the program
    - Other appropriate disciplinary actions as determined
- 2nd incident results in immediate dismissal from the program

## 5.29 UNETHICAL BEHAVIOR AND VIOLATIONS OF PROFESSIONAL STANDARDS

In the imaging profession, each technologist should be responsible, accountable, self-directed and professional in their behavior. The process of becoming a professional radiologic technologist begins upon entering the professional radiography education program.

The Radiography Program at Forsyth Tech is committed to producing radiologic technologists who will provide the highest quality of care to their patients. Students are expected to always conduct themselves in a professional manner. As a student, you represent the Forsyth Tech Radiography Program on the college campus, in all clinical settings, and in any other situation where you might be identified as a Forsyth Tech student. Students will abide by the American Registry of Radiologic Technologist's (ARRT's) Code of Ethics and Rules of Ethics and the American Society of Radiologic Technologist's (ASRT) Practice Standards. Students are accountable for their own behavior and are expected to treat all individuals with respect. Students are expected to listen and follow instructions from the faculty, clinical instructor, preceptor, and clinical staff.

In this program, students will demonstrate professionalism at all times by:

- o Exhibiting courteous behavior
- o Dressing professionally in class, lab, and clinical
- o Showing initiative, and a positive attitude toward assigned tasks and constructive criticism
- o Being punctual, using good judgment, and working well independently or with a team
- o Building interpersonal relationships with peers and patients
- o Using professional oral and written communication
- o Practicing quality patient care and treating everyone with equality, dignity, and respect
- o Adhering to HIPAA and the Rules and Regulations of OSHA
- o Abiding by the policies of the college and the Radiography program

The policies found in this handbook are reflective of the professional behaviors expected in the radiography program. All violations of professional standards will be addressed in a timely manner. Policy violations observed and/or reported will be addressed and documented within two business days of the observation or notification. The violation may result in the student's removal from the classroom, laboratory, and/or clinical setting. Policy violations are cumulative throughout the duration of the program. Students are allowed **no more than a total of three (3) policy violations**. If a fourth (4th) policy violation were to occur, the student would be dismissed. Any severe violation will result in immediate dismissal.

### **Unethical Behavior Definition:**

Unethical behavior is defined as a student exhibiting qualities and characteristics that are inconsistent with the American Society of Radiologic Technologists (ASRT) Practice Standards for Medical Imaging and Radiation Therapy, the American Society of Radiologic Technologists (ASRT) Code of Ethics for Medical Imaging, the American Society of Radiologic Technologists (ASRT) Code of Ethics for Radiation Therapy, the American Registry of Radiologic Technologists (ARRT) Rules and

Regulations, the American Registry of Radiologic Technologists (ARRT) Standards of Ethics, or that violate appropriate moral, ethical, social, and/or legal aspects. **Unethical behaviors are considered to be in Violation of Professional Standards.**

**Unethical behavior will include, but not be limited to:**

1. Violating the patient's rights, including:
  - a. Autonomy
  - b. Privacy
  - c. Confidentiality
  - d. Respect
  - e. Nondiscrimination
  - f. Informed consent
2. Professional misconduct including:
  - a. Inappropriate speech and/or tone of voice
  - b. Watching or showing of inappropriate content such as pictures, memes, or videos
  - c. Unprofessional, negative, or disrespectful attitude
  - d. Deliberate violation of clinical affiliate policies, such as student usage of electronic devices in the clinical setting
  - e. Deliberate damage to or mishandling of equipment in lab, class, or the clinical setting
  - f. Defiant behavior with faculty, clinical instructors, clinical staff and administrators
  - g. Showing no initiative, not participating in lab activities or procedures during clinical education
  - h. Violations of civility (e.g., rude, disrespectful, lewd, indecent, or offensive conduct or apparel)
  - i. Falsifying documentation
  - j. Violation of dress code policies
  - k. Using or being under the influence of alcohol or drugs
  - l. Dishonesty, lack of integrity, or irresponsibility
  - m. Engaging in behavior that may result in the clinical site requesting a student to be removed from the clinical rotation
3. Violating professional and certification organization policies:
  - a. Practicing outside the ASRT Practice Standards for Medical Imaging and Radiation Therapy
  - b. Violating the Forsyth Tech Imaging Department Radiation Safety Plan
  - c. Violating the ASRT Codes of Ethics
  - d. Violating the ARRT Rules and Regulations
  - e. Violating the ARRT Standards of Ethics
    1. Fraud or deceptive practice
    2. Subversion
    3. Unprofessional practice
    4. Scope of practice violations
    5. Improper management of patient records
    6. Failure to report violations or errors
    7. Violation of state, federal, or regulatory laws
4. Violating civil or criminal law, including:
  - a. Negligence
  - b. Assault and/or battery
  - c. Defamation of character
  - d. Sexual Harassment
  - e. Invasion of privacy
  - f. False imprisonment
  - g. Malpractice
  - h. Theft

### 5.30 IMAGING DISMISSAL POLICY

Students may be dismissed from an imaging program due to non-compliance with critical requirements, policies and procedures within the handbook and/or course syllabi including policy violations and/or failing to uphold the academic integrity of the imaging program's grading policies. If a student is dismissed, they may seek to appeal by following the appropriate appeal process within this handbook. The dismissed student may be eligible to reapply by following the steps for Re-admission.

### 5.31 IMAGING NON-ACADEMIC APPEAL PROCESS

Any non-academic appeal of an imaging program dismissal should begin with a scheduled conference between the student and instructor of record by the first day of a new semester. If the appeal is not resolved at this level, the student should contact and arrange for a conference with the program coordinator. The student has the responsibility of providing the program coordinator with a written letter of appeal by the third class day of the new semester for the appeal to be considered.

The letter of appeal must include:

- Date, student's name, signature, and telephone number.
- A letter of three pages or less containing factual and valid reasons why the student thinks the dismissal is not valid. The program coordinator may return the letter to the student to clarify, to add factual information or to state reasons for the appeal. The revised letter must be returned to the program coordinator within two business days.
- Any supporting documentation the student feels is needed to better explain the student's questions as to dismissal determination.

After conferencing with the program coordinator, if the issue is still not resolved, the student will notify the Department Chair of Imaging to schedule a meeting. The meeting will take place within two business days.

After conferencing with the Department Chair of Imaging, if the issue is still not resolved, the student will notify the Associate Dean of Health Sciences to schedule a meeting. The meeting will take place within two business days.

If the issue is still not resolved, the student may appeal to the V.P. of Health Sciences in writing (within two business days of meeting with the Associate Dean of Health Sciences). The Associate Dean of Health Sciences will forward the letter of appeal and supporting documentation to the V.P. of Health Sciences. The V.P. of Health Sciences will then convene a committee (within three business days) to hear the appeal. The committee may reject the appeal if policies and procedures have not been followed by the student.

The committee will hear the appeal and make a final decision (within three business days) which will be reported to the V. P. of Health Sciences. Within 24 hours of receiving the information, the V. P. of Health Sciences will communicate the committee's decision to the student, the program coordinator, the Department Chair of Imaging, and the Associate Dean of Health Sciences. The decision of the committee is final.

### 5.32 IMAGING RE-ADMISSION POLICY

Any student who has successfully completed the first semester of an imaging program and is eligible to re-apply must complete the re-admission policy process.

A student that is unsuccessful during the first semester of an imaging program and wants to re-apply must complete the entire admission process, including submitting the MAR application and following the selective admission guidelines.

#### **Readmission Policy Process:**

Students applying for re-admission must first write a letter to the Program Coordinator stating the reasons they desire to be readmitted and the change of circumstances that will allow them to successfully complete the program.

Upon receipt of the letter, the following guidelines will be used in making the decision regarding re-admission:

- The Program Coordinator will determine the eligibility for re-admission.

- Re-admission is always conditional on the availability of clinical space.
- Any student with a history of repeated documented clinical behavior issues, or repeated didactic performance issues, or where student performance indicates the likelihood of successful program completion is poor, may be denied re-admission.
- Any student who has been denied access to a clinical site for clinical rotations, per program policy, may not be readmitted.
- Any student seeking re-admission must meet with the Program Coordinator, and faculty if appropriate, to be informed of the stipulations necessary for re-admission. At this meeting, formal documentation will be provided, reviewed, and signed.
- Any student seeking re-admission must meet all college and program admission requirements for the cohort they will be joining.
- A student will not be allowed to register for any imaging program courses until they have been readmitted to the program.
- If a change has occurred in the program's curriculum (i.e., sequencing, prerequisites, new courses, electives, etc.) the student may be required to repeat course(s) and/or semester(s) to meet graduation requirements if readmitted.
- Courses listed as concurrent in the catalog must be repeated in that manner.
- A student may be required to repeat or audit previous imaging courses(s) taken while in the program regardless of previous grade earned. The student will be responsible for any cost involved.
- There may be additional costs involved with joining the new cohort (i.e., uniforms, new criminal background, drug screening, medical forms, clinical onboarding software, malpractice insurance, CPR, etc.). The student will be responsible for any cost involved.
- A student will only be permitted one re-admission to the same imaging program. After two unsuccessful attempts in the same imaging program, the student will be referred to the Counseling Center for Career Guidance.
- Any student determined to be ineligible for re-admission will be notified in writing by the Program Coordinator.

### 5.33 STUDENT GRIEVANCE POLICY & PROCEDURE

The Radiography Program at Forsyth Tech is committed to the principle of fair and equitable treatment and mutual respect for all members of the college community, especially students. When a student believes that their has been treated unfairly by an employee of the College it is our intention to ensure that the student has clearly defined avenues of recourse such that the complaint can be resolved fairly and equitably.

It is preferable that the complaint be resolved informally; however, when that is not feasible, this procedure will ensure that a formal process for resolution is available. The student must discuss their grievance with the individual; if the result of the decision is not satisfactory, then the student can proceed to the next level. Documentation will occur at all levels and will be filed in the Program Coordinator's office.

A grievance must be presented, in writing, within 10 days after the action or decision in question. The program will make every effort to come to a resolution within 14 days of the student's initiation of the grievance process. This period may be extended if more information is needed. Any grievance process that goes beyond level three, refer to the Student Grievance Procedure in the Forsyth Tech Academic & Student Handbook.

#### **What is a Grievance?**

The College defines a grievance as a complaint or dispute of a student regarding the College with respect to the following:

1. The interpretation and application of the policies and regulations of the College or the North Carolina Community College System in areas other than disciplinary or academic appeal decisions addressed though the Student Code of Conduct

2. Acts of retaliation as a result of the grievance procedure.
3. Complaints of discrimination on the basis of national origin, race, creed, religion, political affiliation, gender, sexual orientation/preference, age, or disability.
4. Actions that violate the constitutional rights of individuals.

#### **What may not be accepted as a Student Grievance?**

1. Grievances may not be used to challenge College and Program policies and general procedures.
2. Claims based on purchases or contracts.
3. Claims against an employee on matters that are unrelated to the employee's job or role at the College.
4. Disciplinary decisions will be handled through the Student Conduct Committee.
5. Grade appeal decisions will be handled through the academic appeals component of the Student Code of Conduct.

#### **Grievance Levels**

- Level 1: Instructor or Clinical Instructor/Preceptor
- Level 2: Program Coordinator/Clinical Coordinator

Note: If the grievance concerns clinical education, the student should first contact the Clinical Coordinator and if needed, proceed to the Program Coordinator.

- Level 3: Department Chair of Imaging

\*Beyond Level 3, refer to the Student Grievance Procedure in the Forsyth Tech Academic & Student Handbook.

<https://catalog.forsythtech.edu/2425/page/student-code-of-conduct>

### **5.34 STUDENT CONCERN PROCEDURE**

Any student who has a concern, that is not considered a grievance, in regard to didactic class, laboratory, clinical or the program should document their concern on the Student Concern Reporting Form (located in lab, BGH 112), or the student can meet with the faculty member directly associated with the area of concern to jointly complete the form. After filling out the form, a discussion of the student's concern should take place. If the result of the discussion is not satisfactory, then the student can proceed to follow the chain of command.

1. Instructor (class/lab) or Clinical Instructor/Preceptor (clinical)
2. Clinical Coordinator (clinical)
3. Program Coordinator
4. Associate Dean of Imaging

Documentation must occur at all meetings. The documentation is to be filed in the Program Coordinator's office. The program will make every attempt to respond and/or resolve the concern within 14 days.

A Student Concern Reporting Form may be submitted anonymously in the drop box outside Room W203. The form must include enough information and/or details potentially to address the concern. However, if the documentation is anonymous any resolution or follow up may be limited. *It is important to mention that the Radiography faculty prefer to address and handle any student concern with the individual student to ensure adequate resolution.*

### **5.35 INFECTIOUS DISEASES POLICY**

Anyone experiencing the following and/or any other condition that may be suspected as potentially harmful must immediately contact the appropriate Instructor or Clinical Coordinator or Program Coordinator. The student or faculty will not be allowed to attend class, lab or clinical until medically cleared.

The following list is not inclusive:



- Diarrhea
- Vomiting
- Fever
- Open sores
- Parasitic infestations
- Infectious mononucleosis
- Chicken pox/Shingles
- COVID
- Herpes
- Upper respiratory infection
- Rash
- Boils
- Strep or strep infection
- Conjunctivitis
- Measles
- Influenza

For additional information regarding infectious disease procedure, visit <https://catalog.forsythtech.edu/2324/page/student-code-of-conduct>

### 5.36 WORKING AS A STUDENT RADIOLOGIC TECHNOLOGIST

If a student accepts a position as a Student Radiologic Technologist, the following rules must be adhered to at all times:

1. The student's first responsibility is to their educational program. Employment cannot interfere with scheduled classes, labs, or clinical hours.
2. Student Technologists cannot wear their program-issued radiation monitoring device while working.
3. Student Technologists cannot wear their program scrubs or college-issued student ID while working.
4. Student Technologists cannot perform or oversee exams with students while they are participating in clinical education. During clinical education all students must be supervised by a qualified radiographer either directly or indirectly as appropriate, and the qualified radiographer must approve all student images.
5. Students participating in clinical education may only assist Student Technologists with patient transport or moving help.

## SECTION 6: CLASSROOM POLICIES

**College Attendance Policy**

The Forsyth Technical Community College Attendance Policy can be found in all course syllabi.

**Imaging Program Attendance Policy****Absences (Courses and Labs)**

Students are expected to be present in every course and lab designated by the instructor for the semester. Course-specific syllabi should state the allowed absences for each individual course.

If the student exceeds the number of allowed absences for a course as indicated by the course-specific syllabus, the student must meet with the course instructor.

- If the student's excessive absence is considered excused, the instructor and student will meet to discuss the absences and possible remediation.
- If the student's excessive absence is unexcused, the student will receive an "F" for the course and subsequently be dismissed from the program. The student may apply for readmission following the Re-admission policy.

**Program Attendance Policy**

The Radiography Program regards class lectures, demonstrations, and other in-class experiences as vital to the educational process. For this reason, students are expected to attend and arrive on time to all classes, lab, and clinical. **Students are responsible for accounting to the instructor for an absence and should report to their instructor following any absence to determine what they may have missed.**

The Radiography Program expects students to attend at least 90 percent of every course. The 10 percent mark for each Radiography course is listed in the chart below. If the student's absences are determined valid and they are permitted to stay in the course any absence over the time limit listed in the chart below will result in a **1-point deduction per hour off the final grade.**

Students must notify the course instructor by email and/or office voicemail and include the reason for their absence. Notification should occur before the start of the scheduled course time. If this is not feasible, the student must notify the course instructor by 5:00 pm on the day of their absence. Lack of notification will be recorded as an unexcused absence and a **3-point deduction from their final course grade.** This applies to each subsequent incident. The instructors' contact information is listed on the syllabus under *Instructor Information*.

Course	Time Limit
RAD 110	5
RAD 111	6
RAD 112	6
RAD 121	5
RAD 122	3
RAD 141	3
RAD 211	5
RAD 231	3
RAD 271	5

## Tardiness

Students are expected to report to class or lab on time. Attendance is recorded at the beginning of each class or lab session. The closing of the class or lab door will signify the beginning of class or lab. Any entry afterward will be recorded as a tardy.

- Students who are tardy will receive a policy violation notification.
- Students who incur a third tardy will be subject to a **1-point deduction from their final course grade**.
- Every subsequent tardy will include a **1-point deduction from the final course grade**.
- Each tardy will be calculated cumulatively for each individual course.

## 6.1 ELECTRONIC DEVICES IN THE CLASSROOM

(See Electronic Devices Policy, Radiography Program Policies)

## 6.2 GENERAL CLASSROOM RULES

Each student is responsible for all course material covered during a class session. If the student is absent they should discuss any work missed with the course instructor.

Textbooks, modules, course materials should be brought to every class and/or lab unless otherwise instructed.

## 6.3 TESTS AND MISSED TESTS POLICIES

### Tests

Tests are handed back to the student after grading for the student to review. The test is then returned to the instructor. All tests are kept on file for the duration of the student's program and are considered property of the program.

### Missed Tests

Students must be present for announced tests or a "0" will be issued.

Exceptions may be made based on:

- Illness: Requires a doctor's note
- Emergency: Determined by the instructor to be valid

Students must contact the instructor by either college email or leave a message on the instructor's office voice mail prior to the scheduled test time.

Make-up tests must be scheduled with the instructor and will be given on the first day the student returns to school. Make up tests will be scheduled at times other than classroom, lab, or clinical education times. If the student does not contact the instructor on the first day back at school, no make-up test will be given and a **Zero (0)** will be recorded.

## 6.4 SUBMISSION OF ASSIGNMENTS POLICY

Submit all materials and assignments in a neat and legible form, on time or before the due date. **One (1) letter grade** reduction will apply for each day of lateness.

## 6.5 RADIOGRAPHIC IMAGES/CD CHECKOUT POLICY

Students may be required to complete projects or case studies regarding radiography. If copies of images are needed for presentations, it is the student's responsibility to obtain consent from the clinical site. All patient information must be removed from the images, or it will be considered a violation of professional standards (*Radiography Program Policies, Professional Standards*).

## 6.6 READING AND HOMEWORK ASSIGNMENTS

Classroom, laboratory, and instructor-student discussion are not the total of the learning process. To facilitate the teaching/learning process beyond the physical boundaries of the classroom or lab, assignments are given requiring research, reading, computer programs, audio-visual material, practice, and at home study. These assignments strengthen instruction and enhance the instructional material for student comprehension and learning. Students will be expected to complete these assignments. Instructors may opt to include readings and assignments in tests or when computing final grades

## SECTION 7: LAB POLICIES

## GENERAL

All program and classroom rules and policies apply to educational labs. The following are additional policies specific to the program's energized labs and the lab environment.

### 7.0 INTRODUCTION

The operating and safety procedures for the energized laboratory have been developed to establish a safe learning environment for students and faculty at Forsyth Technical Community College. Radiation safety and protection measures are in place to provide a safe environment. All students and faculty are required to follow the Radiation Safety Plan (RSP). They must review and be familiar with the plan, and sign acknowledgment of its content and their implied compliance. A notebook with a copy of the RSP can be located in the lab, BGH, room 112. (*Forsyth Technical Community College, Heath Tech Division- Imaging Department, Radiation Safety Plan*).

In addition, students will be taught and are required to practice all radiation safety measures, with emphasis on how to minimize radiation exposure to patients and personnel. This content will be introduced and taught in the various courses with lab components (RAD 110, 111, 112, 121, 122, 141, 211, and 231).

### 7.1 GENERAL RULES

- At no time are students allowed to hold "patients", phantoms, or any type of imaging receptor during energized lab activities, including Open Lab.
- Students are responsible for maintaining the cleanliness and orderly appearance of the lab.
- Student conduct while in the lab is governed by the same standards as any other classroom situation.
- The energized lab equipment must be used under the direction of a Forsyth Tech Radiography Program faculty member or adjunct faculty.
- Radiation dosimeters are to be worn by students and faculty during energized lab sessions, including OpenLab.
- Any misuse of lab equipment or accessory devices will subject the student to disciplinary action.
- Any violation of the lab rules will be considered a violation of professional standards (*Violation of Professional Standards, Program Policies*).
- Additional Open Lab rules apply. These rules are distributed during Program Orientation.

### 7.2 ATTENDANCE OF SCHEDULED LAB SESSION

(See Attendance, General and Lab, Classroom Policies)

### 7.3 ABSENCE OF SCHEDULED LAB SESSION

If a student cannot be present for their scheduled lab (for whatever reason), they should when possible, exchange lab with another student. Any absence in lab for reasons other than illness or emergencies requires the student to get preapproval from the lab instructor in order to switch labs. Individual make-up labs will not be held for those students who are absent from a scheduled lab. The student is responsible for any lab material or assignments missed due to their absence and should follow up with the instructor.

### 7.4 DARKROOM SAFETY AND PROCEDURES

Faculty and Students are expected to follow all darkroom safety measures and procedures.

#### BASIC PROCEDURES

- Unexposed x-ray film is stored in room 112 dark room until needed.
- Process films according to the laboratory instructions

- Always check expiration dates on the film and the chemicals used in the processor. Make note if either are beyond the expiration date.
- Two safe lights in the film processing/loading area are provided under these conditions and should not be changed without authorization from the Program Coordinator.
- Filter Type: Wratten 6B
- Bulb Wattage: 15
- Distance from Working Surface: 6 feet
- Both safelights can fog film if procedures are not followed

#### **AUTOMATIC PROCESSING**

- Check the temperature at the beginning of the lab. If the red light is flashing it is at an acceptable temperature. Do not process films unless the developer temperature is acceptable. Recheck temperature as needed.
- Run cleanup or blank films daily/weekly as specified by the manufacturer.
- Maintain the processor according to the instructions in the manufacturer's operation manual in the Radiography Lab, Room 112

#### **QUALITY ASSURANCE**

- QA procedures will be performed at specified intervals by students or program faculty as needed.

### **7.5 HANDLING OF LABORATORY EQUIPMENT AND ACCESSORY DEVICES**

Proper use and maintenance of laboratory equipment and accessory devices (i.e., phantoms, shields, image receptors, grids, and sponges) are essential to laboratory instruction, safety, and longevity. All items utilized during labs and practice should be handled with care and returned to their proper location after usage. Any misuse, damage, or destruction of equipment and/or accessory devices will result in disciplinary action. *(See the Forsyth Tech Student Code of Conduct, Rule 3. Damage to or Destruction of Private Property and Violation of Professional Standards, Radiography Program Policies).*

### **7.6 HANDLING OF WHOLE-BODY PHANTOMS**

The following information must always be followed:

- Two or more people are required when moving the phantoms.
- A sheet must always be kept under the phantoms.
- Do not remove the plastic protectors from any phantom.
- Do not place phantoms in a position unintended by the manufacturer.
- Do not mark on the phantoms with pen or leave printed materials in contact with surfaces.



## SECTION 8: CLINICAL EDUCATION INFORMATION AND POLICIES

## 8.0 INTRODUCTION TO CLINICAL EDUCATION

Throughout the two years in the Radiography Program at Forsyth Tech, the student will participate in the clinical education portion of the curriculum in order to:

- Acquire competency and proficiency in a wide variety of diagnostic radiographic procedures through application of classroom theory and laboratory skills to the actual practice of technical skills in a clinical setting.
- Develop and practice professional work habits and appropriate interpersonal relationships with patients and other members of the health care team.

The main purpose of the clinical education courses in any Radiography Program is to develop a transfer of knowledge from theory learned in the classroom to the actual performance of skills in the clinical setting with the ultimate goal of the student obtaining entry level competency by the time of graduation.

This transfer of knowledge is accomplished by a series of clinical assignments in all aspects of diagnostic radiographic procedures along with the correlation of classroom and laboratory experiences.

In order to measure the student's ability to perform at satisfactory levels of competency, a method of competency evaluation has been established to meet the particular needs of this program. The student will be evaluated by clinical technologists and Forsyth Tech faculty in their performance of specific radiographic procedures as well as on their performance during the complete clinical rotation.

The student must realize the production of a finished radiograph and the clinical technologist observation of the student during the performance of that particular radiographic procedure are by no means the only aspects of clinical education that must be evaluated. In addition, the following affective skills play an important role in the overall performance of a student in clinical education courses: organization skills, initiative, cooperation, self-confidence, composure, enthusiasm, and overall attitude.

These characteristics are evaluated along with the completion of clinical objectives for the rotation. The Clinical Instructor/Preceptor at each site will be responsible for compiling the results of the staff evaluations throughout the duration of the students' rotation. This will allow the Clinical Instructor/Preceptor to provide timely feedback to the students. This will allow students an opportunity for continuous growth or improvement.

## 8.1 PERFORMANCE OF RADIOGRAPHIC EXAMINATIONS DURING CLINICAL EDUCATION

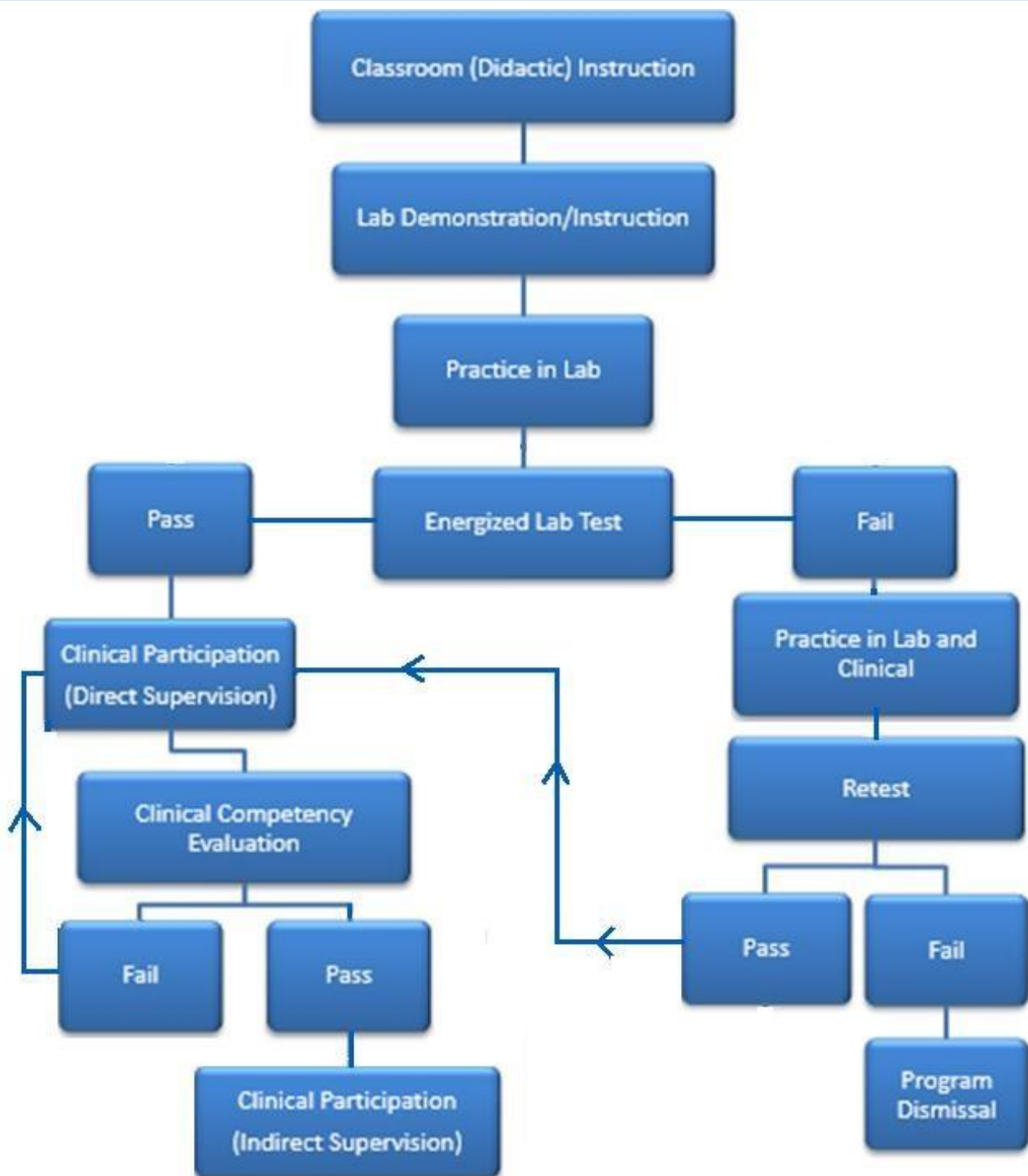
The student will engage in laboratory sessions during the Radiographic Procedures courses that will allow the student the opportunity to practice and satisfactorily demonstrate radiographic procedures using simulation on classmates and actual radiographs of phantoms (under the direct supervision of a college instructor). After demonstrating competency in the laboratory, the student will then be permitted to perform the radiographic examination for competency in the clinical setting. This does not mean that the student cannot assist the technologist in the performance of radiographic procedures not yet covered in the classroom or lab. In fact, the student will be expected to actively participate in every patient examination completed in their assigned area. The student should be aware of the following policies related to the Radiographic Procedures I (RAD 111), II (RAD 112), and III (RAD 211) courses:

- Successful completion of all didactic and simulation procedures section tests (chest, bony thorax, abdomen, upper and lower limbs, etc.) of 78% or higher is required before the student can begin performing the procedure in the clinical setting.
- A flowchart, which shows the correlation of the procedure courses with the curriculum clinical competency evaluation, is provided on the following page (*Clinical Competency Evaluation Flow Chart*).

The student is reminded that the majority of time spent in the first phase of their clinical experience will consist of transitioning from an observational or passive role, to an active or participatory one, assisting the technologist in radiographic examinations. The student's rate of progress will depend on the ability they possess to understand and perform the various assigned tasks.

After gaining experience in the various procedures, the student will gradually move into a performance state in which he or she will actually be performing the procedures under the supervision of a qualified radiographer (*defined in section 8.4 Supervision Policy*). It is at this stage that the student will perform a **Clinical Competency Evaluation**. The student is reminded that satisfactory performance of an examination for competency is only the beginning of gaining true proficiency. The student will also be responsible for maintaining their level of competency for each examination at each clinical affiliate. Details of the required numbers and types of competency and proficiency examinations will be found in the course syllabus for each of the clinical courses.

## 8.2 CLINICAL COMPETENCY EVALUATION FLOW CHART



## 8.3 COMPETENCY PROCEDURE

Clinical competency evaluation is a standardized method for determining and documenting a student radiographer in a core of radiographic procedures, identified by the *American Registry of Radiologic Technologists (ARRT)*.

### Radiography Clinical Competency Requirements

Demonstration of clinical competence means that the designee has observed the student performing the procedure, and that the student performed the procedure independently, consistently, and effectively. As part of the educational program, students must demonstrate competence in the clinical activities identified below:

- Ten (10) mandatory general patient care activities
- Thirty-six (36) mandatory imaging procedures
- Fifteen (15) elective imaging procedures selected from a list of 34 procedures.
  - One of the 15 elective imaging procedures must be selected from the head section.
  - Two of the 15 elective imaging procedures must be selected from the fluoroscopy studies section

Procedures should be performed on patients whenever possible. A total of ten imaging procedures may be simulated. Imaging procedures eligible for simulation are noted on the “*ARRT Radiography Didactic and Clinical Competency Requirements, section 4.2.2*”.

One patient may be used to document more than one competency. However, each individual procedure may be used for only one competency (e.g., a portable femur can only be used for a portable extremity or a femur but not both).

Institutional protocol will determine the positions and projections used for each procedure. When performing imaging procedures, the candidate must independently demonstrate appropriate:

- Patient identity verification
- Examination order verification
- Patient assessment
- Room preparation
- Patient management
- Equipment operation
- Technique selection
- Patient positioning
- Radiation safety
- Image processing; and
- Image evaluation

### Process of Competency Evaluation on a Radiographic Imaging Procedure:

- Related material covered in class/lab.
- Demonstration of proper positioning and simulated practice in the Energized Lab.
- A score of 78 or higher is obtained on the Energized Lab test.
- Appropriated clinical experiences where the student, under direct supervision, performs the procedure.
- Competency evaluation can be completed by:
  - Forsyth Tech Faculty
  - Preceptor or Clinical Instructor
  - Registered Staff Radiographers
- The entire examination/procedure must be monitored by the evaluator.
- To continue in the program, students will be required to successfully demonstrate competency on a specific number of examinations each semester. The course syllabus will identify the minimum number of competencies required each semester.

### **Student Responsibilities for Clinical Competency:**

Students MUST always work under the direct supervision of an ARRT Registered Technologist until competency is achieved.

**(Direct supervision must be upheld during all fluoroscopy and C-arm procedures even if student has achieved competency.)**

The following process has been established to assure the successful completion of the required clinical competencies.

- MUST "REQUEST" THE EXAMINATION FOR A COMPETENCY BEFORE GETTING THE PATIENT.
- Clinical Competency Manual must be provided to the supervising technologist prior to beginning the examination.
- Bring the patient into the room.
- Verify patient information.
- Perform the entire examination unassisted (independently) including setting technique without errors.
- Properly identify all competency radiographs/images with their lead markers.
- Release the patient or return them to the appropriate area with proper instructions.

Always remember that the patient's safety and comfort is the primary goal, as well as obtaining the highest possible standards in diagnostic imaging. Do not attempt any imaging procedure you do not feel comfortable performing.

### **Clinical Staff Technologist Responsibilities for Clinical Competency:**

- **Observe** procedure (*Note: student is expected to perform all aspects of the examination entirely unassisted including setting technique*)
- Can **intervene** at any time they deem necessary for whatever reason, but this will result in the student **not** being able to count the examination for a Competency.
- Approve all images obtained.
- Perform all paperwork/computer-work associated with the examination.
- Complete Clinical Competency Manual - Competency Evaluation form and sign

### **Clinical Instructor/Preceptor Responsibilities for Clinical Competency:**

- Review the competency by evaluating images with the student.
- Ensure all required signatures are on the competency forms (*Note: The program will not grant competency, if the required signatures are not present*)
- To maintain consistency and competency in procedures, the Clinical Instructor/Preceptor can re-evaluate a student on previously demonstrated competency, at any time. Demonstrated competency may be removed when:
  - o The student is unable to satisfactorily perform competency examination.
  - o Validity of the competency examination (i.e., lack of appropriate lead markers, positioning, centering)

**\*\*WHITEOUT MUST NEVER BE USED IN THE COMPETENCY MANUAL.** If an error occurs during documentation, a line should be drawn through the error, with initials and the date.

In order to be considered competent, the student must perform the examination and receive an "Acceptable" on all portions of the competency. If a student receives an "Unacceptable" on any portion of the competency, it will be considered a failed attempt. The student will be required to repeat the examination.

There is no set limit to the number of times the student may repeat the examination for competency; however, remediation will be given for each failed attempt. Students are urged to be confident of their ability to perform a competency examination before they request to be evaluated, so that they are able to complete the task at an acceptable level the first time. The student is reminded that any student-caused errors or repeated radiographs demonstrate a lack of competency and will result in a failed attempt. If the attempt resulted in a repeat image, the procedure must be documented on the Repeat Examination Form.

**The student is responsible for notifying the Clinical Instructor/Preceptor when a successful competency has been performed.** The Clinical Instructor/Preceptor will review, evaluate, and sign off the competency evaluation. If the student is not successful in the evaluation part of the competency, this too will result in a failed competency. The Clinical Instructor/Preceptor will be responsible for sending failed competency paperwork to the Clinical Coordinator.

The student is responsible for completing the total required number of competencies (mandatory and elective) before the end of their last clinical rotation. Refer to the course syllabus for each clinical course. Failure to complete the minimum number of

competencies by the end of the semester will result in the student receiving a **zero (0)** for the final clinical grade and student will be dismissed from the program.

After the student has successfully completed a competency evaluation, they will be expected to be able to perform the same examination at any time on other patients to ensure continued proficiency. These continued proficiency examinations will contribute to the student's overall clinical grade. The number and types of proficiency examinations required to achieve the clinical grade will be included in the syllabus for each clinical course. Refusal to perform a previously obtained competency examination when asked by a Clinical Instructor/Preceptor or Staff Technologist, will be considered insubordination, and considered a violation of professional standards. Additional disciplinary actions will include invalidation of the original competency evaluation and the student will be required to repeat the competency evaluation for the procedure to be counted as valid.

### **Critical Thinking and Problem Solving**

The Joint Review Committee on Education in Radiologic Technology (JRCERT) requires critical thinking and problem-solving skills in the curriculum of radiography programs to further enhance student's competence. Each task in the competency manual initiates critical thinking and problem solving as the student completes each step, evaluates their own images, and reviews the anatomy. After completing this manual, the student will have acquired the knowledge and gained confidence in the clinical setting and will be eligible to take the ARRT certification examination.

## **8.4 SUPERVISION POLICY**

To ensure patient safety and the best possible care of patients, clinical supervision is required for all Forsyth Tech Radiography Program students. Students are required to work under **DIRECT SUPERVISION** until they have successfully demonstrated competency. After demonstrating competency of a specific examination, the student may perform the examination under **INDIRECT SUPERVISION**. **A repeat of ANY unsatisfactory image requires that a qualified technologist DIRECTLY SUPERVISE the student.**

### **DIRECT SUPERVISION**

Until a student achieves and documents competency in any given procedure, all clinical assignments shall be carried out under the **direct supervision** of qualified radiographers. A qualified radiographer is defined as being an individual certified by the American Registry of Radiologic Technologists, or a suitable equivalent. The parameters of direct supervision are as follows:

- A qualified radiographer reviews the procedure in relation to the student's achievement,
- A qualified radiographer evaluates the condition of the patient in relation to the student's knowledge,
- A qualified radiographer is physically present during the conduct of the procedure, and
- A qualified radiographer reviews and approves the procedure and/or image.

**DIRECT SUPERVISION is required for all surgical and all mobile, including mobile fluoroscopy, procedures regardless of the level of competency.**

### **INDIRECT SUPERVISION**

Once students have demonstrated and achieved competency, students may perform procedures under indirect supervision. Indirect supervision is defined as student supervision provided by a qualified radiographer who is immediately available to assist the student regardless of the level of student achievement. This is further defined as the presence of a qualified radiographer adjacent to the room or location where a radiographic procedure is being performed.

This availability applies to all areas, **EXCEPT surgical, mobile, and mobile fluoroscopy**, where ionizing radiation equipment is in use.

## QUALIFIED RADIOGRAPHER

A qualified radiologic technologist possessing American Registry of Radiologic Technologists (ARRT) certification or equivalent, and active registration in the pertinent discipline and practicing in the profession.

- **Clinical Staff** – Staff Radiographers certified by the American Registry of Radiologic Technologists and have volunteered to work with students
- **Clinical Instructor/Preceptor** – Radiographers certified by the American Registry of Radiologic Technologist, employed by the college and are recognized by the Joint Review Committee on Education in Radiologic Technology to have met the criteria for clinical instructor/preceptor

## APPROVAL OF RADIOGRAPHS

It is the responsibility of the supervising technologist to approve all student radiographs, supervise a repeat examination, and dismiss a patient after completing an examination. The student may perform these duties **ONLY** after being instructed to do so by their supervising technologist.

## 8.5 REPEAT EXAMINATION POLICY

In support of professional responsibility for the provision of quality patient care and radiation protection, unsatisfactory radiographs shall be repeated only under the **direct supervision** of a qualified radiographer, regardless of the student's level of competency.

Each student is responsible for abiding by the above supervision and repeat radiograph policies. In a situation where the student feels he or she is placed in a situation that is in direct violation of these policies, the student should **immediately** report it to the Clinical Instructor/Preceptor.

A qualified radiographer must be present during student performance of all repeat images. Direct supervision is mandatory.

Failure to comply with the supervision or repeat examinations policies is in violation of the Unsafe Practice Policy (*Radiography Program Policies: Unsafe Practice Policy*).

## 8.6 SAFE CLINICAL PRACTICE

There are many safe clinical practices, including, but not limited to the following:

- Practicing within the guidelines of the Radiography Program policies and objectives at Forsyth Tech
- Practicing within the American Registry of Radiologic Technologist standards
- Practicing within the ethical standards of the American Society of Radiologic Technologists
- Practicing within the scope of practice under the auspices of the ARRT and ASRT
- Practicing within the standards of the Joint Review Committee on Education in Radiologic Technology
- Practicing within the direction and supervision of the Radiologist on-site at clinical affiliates.
- Practicing within the direction and supervision of the registered Radiologic Technologist
- At all times, use appropriate shielding, imaging techniques, or other means of radiation exposure reduction. (ALARA).
- Giving excellent care to every patient without regard to race, creed, sex, color, religion, and physical or mental limitations.
- Students may not remove a patient from the following:
  - o Cervical collars

- o Monitoring devices
- o Traction
- o Bandages or splints
- Students may not give medication or treatment to patients with the exception of contrast agents and only with direct supervision and approval of a technologist or physician. Food and/or liquids may be given with consent of the attending physician.
- Students may not inject IV contrast without direct supervision of an ARRT-R technologist that works for the clinical site.
- Students are not permitted to use fluoroscopy to locate or position anatomy for any examination in any clinical setting.
- Critically ill patients should take priority and should never be left alone. Note any changes in patient and report it immediately.
- Students should never keep valuables for a patient. Valuables should be given to a family member or given to nursing personnel to be locked up. Note the name of the person in possession of valuables in case it is needed later.
- Dentures should be placed in the proper container, not wrapped in paper towels, tissues or washcloths. (Always check for dentures, glasses, clothing, and other personal belongings when escorting the patient from the exam room.)
- Never be afraid to ask for help. If you suspect something is wrong, it probably is, get help.
- Never be afraid to ask a radiologist to check a patient.
- Never get between an upset or belligerent patient and the exit.
- Excuse yourself from the room if you feel threatened or uneasy. Ask a technologist to come in the room with you.
- Students are required to wear corrective lenses or glasses if indicated on their medical form.
- Students are required to wear any and all types of devices required by their physician that the program may feel is necessary to protect the patient.
- Students are NOT allowed to hold image receptors during any exposure in clinical radiography. Students should not hold patients during any radiographic procedure when an immobilization method is the appropriate standard of care.

## 8.7 IMAGING CLINICAL UNSAFE PRACTICE POLICY

During enrollment in the Radiography Program, all students in all clinical activities are expected to adhere to professional standards of safe clinical practice with regard to facility policy, program policy and equipment use. Unsafe clinical practice includes any omission or deliberate unsafe clinical behavior or act that endangers a patient, a clinical site employee, program faculty, other students, or yourself regardless of whether actual injury is established. If an unsafe clinical conduct is observed, the following actions will be taken:

- The student will be immediately removed from the instructional setting and the Clinical Coordinator will be notified.
- The observation of the unsafe situation will be documented immediately and submitted to the Clinical Coordinator.
- A copy of the report will be submitted to the Program Coordinator.

Students demonstrating conduct which conflicts with safe practice may be immediately withdrawn from the Radiography Program with a course grade of 'F.' In order to be considered for readmission to the program, the student will follow the readmission process outlined in the Radiography Program Student Handbook and will make an appointment with the Program Coordinator for remediation. If the student does not concur with the recommendation regarding enrollment status, they may follow the Imaging Appeal Process.

## 8.8 CLINICAL ATTENDANCE POLICY

Every instructional minute counts and student attendance interferes with the learning process. Be respectful to everyone's time and schedule by arriving early and always be prepared for clinical. Falsification of any record will result in a grade of F being given for the course and the student will be immediately dismissed from the program. Specific policies and procedures are as



follows:

### **Tardy -**

Arrival to clinical after the scheduled clinical start time. (One minute or after)

- Each incident will be recorded as an occurrence. Any student exceeding **two (2)** recorded occurrences during a semester will result in **five (5) points** off their final grade in the course. This deduction applies to each incident beyond the two recorded occurrences.
- **All missed clinical time MUST be made up.**

### **Absence -**

- The student is responsible for notifying the Clinical Instructor/Preceptor and the Clinical Coordinator via email at least **fifteen (15)** minutes before the expected time for the clinical rotation to begin.
- If assigned to an outpatient facility, the student must also notify the clinical site. The phone call must include your name, reason for the absence, and expected date of return to clinical.
- The student must provide a doctor's note for absences exceeding two (2) consecutive days.
- Failure to notify the Clinical Instructor/Preceptor, Clinical Coordinator or the clinical site of absence will result in **five (5) points** off the final grade in the course.

### **Early Departure -**

Departure from clinical before the scheduled clinical end time.

- Early departure is strongly discouraged unless there is an emergency.
- In the event of an emergency, the student must notify **the Clinical Instructor/Preceptor and the Clinical Coordinator via email**. If assigned to an outpatient facility, the student must also notify the clinical site prior to departure.
- In the event of a planned early departure, the student must submit an email request to the Clinical Coordinator for approval at least **24 hours** before scheduled clinical start time.

Failure to notify the Clinical Instructor/Preceptor, Clinical Coordinator or the clinical site of impending absence or early departure will result in **five (5) points** off the final grade in the course. This rule applies for each incident. In addition, the student must notify the appropriate person the day they are absent from clinical or an **ADDITIONAL five (5) points** will be deducted for each day they do not call in or leave early. All clinical time missed will be rescheduled on designated "make-up" day(s) listed on the clinical rotation schedule. All make-up time will occur at the same clinical site and for the same shift on which the absence occurred. Designated make-up date, time and location are subject to change.

## **8.9 CLINICAL EDUCATION ROTATION ASSIGNMENTS**

The rotation of students through different clinical settings provides for a well-rounded clinical education which allows the student to become exposed to a variety of clinical experiences. Students in the program are scheduled for clinical education rotations throughout the entire curriculum. All students rotate through each of the different clinical settings affiliated with Forsyth Tech to warrant equal and equitable experiences. Clinical education times vary depending on the semester; however, **at no time should a student be scheduled more than 40 hours per week** of combined clinical and didactic/classroom hours.

Students will receive a clinical rotation schedule outlining each phase of clinical education at the beginning of each semester. Clinical rotations are determined randomly and must be strictly adhered to. Requested assignments and changes will NOT be accepted. It is the student's responsibility to know and report to the assigned clinical site. Students must have a reliable form of transportation that will enable them to travel to all program clinical affiliates. The costs of travel, lodging, parking, meals, and other expenses are the student's responsibility. The program does not provide transportation to clinical affiliates. Some **evening and weekend shift rotations** will be required during 3<sup>rd</sup>, 4<sup>th</sup>, and 5<sup>th</sup> semester. Evening and weekend rotations will total no more than 3 weeks in each semester. Evening and weekend rotations are completed by 10:00 pm. No substitutions or changes for

clinical rotations or assignment times are allowed without consulting and receiving approval from the Clinical Coordinator. Forsyth Tech Radiography Program Administration reserves the right to make changes in clinical sites and/or times as deemed appropriate for quality clinical education.

Students must stay in their assigned area unless otherwise designated by a Clinical Instructor/Preceptor or a Radiography Program faculty member. Students shall be productive and display active participation while exams are being performed in assigned area/room. Even if the exam is beyond the student's current capabilities, the student must be attentive, observant, and participate with patient care. Clinical time is to be used wisely as these are documented hours of instruction that are needed for admittance for the ARRT registry exam. Failure by a student to participate in their own clinical experiences may result in disciplinary action for uncooperative behavior while in the learning environment.

Additionally, students must adhere to the following guidelines:

- Meals Break – lunch/dinner schedules will be assigned at the discretion of the Clinical Instructor/Preceptor at each clinical affiliate. Due to the nature of the professional responsibilities of Radiography, it is often impossible to predict a schedule of meals and breaks in advance.
  - o 6 hours or more a day clinic - one (1) required 30-minute meal break
  - o Students are not allowed to work through lunch breaks
  - o Lunch time cannot be accrued, accumulated, or banked
- Eating and drinking are allowed only in the staff lounge or designated areas. Be respectful of limited space in some staff lounges; staff have priority over students and students should go to another appropriate area to eat.
- Students are not allowed to bring their breakfast foods to eat upon arrival of their clinical day.

## 8.10 CLINICAL APPEARANCE AND DRESS CODE

Students are to abide by the program requirements related to personal appearance to present a positive, well groomed, and professional appearance; to be easily identified by patients and co-workers; and to maintain safety related to attire for themselves and patients.

The Program expects each student to present a professional, businesslike image to patients and to the public while participating in clinical education. Students are also expected to follow guidelines regarding uniforms and other specifics of personal appearance and grooming.

### GENERAL APPEARANCE

- Clinical scrubs must be pressed and clean, properly fitted, and appropriate.
- Only solid black or white short or long sleeve tops can be worn underneath scrubtop.
- Operating Room (OR) scrubs must be returned to the designated clinical staff or Clinical Instructor on the day the scrubs are utilized. Not returning OR scrubs is considered theft.
- Tattoos should not be visible in the clinical setting. All **tattoos** must be covered. This includes any facialtattoos.
- Wearing tight-fitting, suggestive, or see-through attire is prohibited.
- Chewing gum is not allowed.

### FOOTWEAR

- Clean, comfortable, and closed-toe shoes that are ALL white or ALL black are required. Shoes must also be impermeable, so no liquids can seep through the shoes. Shoelaces should match accordingly.
- ONLY white or black hosiery or socks must be worn by students who provide patient care.

### GROOMING

- Good personal hygiene is an essential element of appearance. Students are expected to be clean and to practice good hygiene habits. The student must shower or bathe daily. (*See Personal Hygiene Policy, Radiography Program Policies*)
- Nails must be clean, well groomed, and of appropriate length (**CANNOT** extend past the skinline).
- Artificial nails and nail jewelry are prohibited based upon health and safety guidelines related to patient contact and infection control.
- No nail polishes, acrylic, gel, or SNS nails are permitted.

## HAIR

- Hair must be clean, combed, neatly trimmed, or arranged away from the face.
- Hair (passed the shoulders) must be pulled back in a manner that does not hang/dangle/fall on a patient while performing an exam.
- Colored hair must appear professional and in good taste (no exotic hair colors).
- Hair beads are not permitted.
- When required, students shall adhere to departmental guidelines regarding hair covering.
- Students arriving at clinical with wet hair will be asked to leave. Time missed must be made up.
- Sideburns, mustaches, and beards must be neatly trimmed to a short length.
- Students may be required to shave all facial hair for clinical required mask fittings.

## ACCESSORIES

- Jewelry may be worn in moderation.
- One set of small stud earrings worn in earlobes only, a wristwatch (no smart watches), and one ring on eitherhand.
- All other jewelry is considered excessive for the clinical setting and therefore prohibited (i.e., large dangling/hoop earrings, any ear jewelry besides small studs).
- Jewelry on other parts of the face is prohibited.
- Piercings - no visible body piercings are allowed (facial or tongue).

## COSMETICS

- Cosmetics must be used in good taste and moderation.
- Heavy makeup and eye shadow are not acceptable.

## FRAGRANCES

- Strong smelling colognes and perfumes are prohibited.
- Colognes, perfumes, and any other scents (aftershave, scented lotions, body sprays, hair sprays, etc.) should be used sparingly, if at all. Please note that colognes, perfumes, and other scents may be especially offensive to sickpatients.
- **An effective antiperspirant/deodorant is a MUST.**

## 8.11 CLINICAL EXAMS

Clinical exams are written exams given by the Clinical Coordinator during each semester. These exams can include any previously covered course content from didactic, lab, and/or clinical courses.

Course	Mid-Term Exam	End of Term Exam
RAD 151	√	√
RAD 161	√	√
RAD 171	√	Simulated Competency Exam
RAD 251	√	√
RAD 261	√	Final Exit Competency Exam

### RAD 171 Clinical Education III - Simulated Competency Exam

- Student will be evaluated on the following:
  - o Simulated Projections from procedures listed below (Selected)

Projection	Number of Exam	Time
Chest, abdomen, bony thorax, upper & lower extremities, spine, skull, and facial bones	5 Projections	30 Minutes

### RAD 261 Clinical Education V - Final Exit Competency Exam

- Student will be evaluated on the following:
  - o Simulated projections from overall procedures (Selected)
  - o Digital images on phantoms

Projection	Number of Exam	Overall Time
Simulation - procedures from RAD 111, RAD 112 and RAD 211	6 Projections	45 Minutes
Digital Images (See course syllabus for procedure list)	4 Projections	15 Minutes

### Competency Exam Grading Criteria:

- Grading will follow the same guidelines as Energized Lab Testing
  - o Simulation – Communication, positioning skills, equipment manipulation and radiation protection
  - o Digital - Patient & Positioning Skills, Equipment/Computer Manipulation, Radiation Protection and Digital Analysis
- Critical requirement to pass the clinical course
- One (1) retest is allowed to pass the competency exam with a grade of 78 or higher
- Remediation will be provided upon failure and prior to retesting
- The initial exam score will be the grade recorded

**Failure to pass the Competency Exam will result in a grade of an F being issued for the course**

A student receiving a grade of F will be immediately withdrawn from all Radiography courses and dismissed from the program. A student withdrawn due to academic reasons is eligible to re-enter only once in the same health program (*Radiography Program Curriculum, Program Re-Admission Policy*).

## 8.12 CLINICAL PERFORMANCE EVALUATIONS

Clinical Performance Evaluations are based upon specified levels of technical and professional competency and provide an opportunity for guidance and assistance when student improvement is necessary.

During the radiography program, the student will be expected to show progression and development in the required technical and affective skills. The student's performance evaluations will be used to help identify potential problem areas for the student. The counseling received by the student will be progressive when low evaluation scores are received.

Any student who feels they have received an unfair evaluation from a technologist or Clinical Instructor/Preceptor is encouraged to discuss their concerns with the Clinical Coordinator. If the problem is not resolved, the student should then proceed to the Program Coordinator and move on up to the appropriate chain of command.

Clinical Education courses are evaluated using the variety of methods listed below. Students are responsible for completing all requirements and competencies as outlined in the clinical course syllabus. Students should check each course syllabus for evaluation methods, evaluation forms and the number of evaluations used for a specific course.

- **Course Entry Assignment** - Students must complete the course entry assignment by the due date listed on Blackboard.
- **Clinical Participation** - Students must record participation of all radiographic examinations. The number of procedures will be identified at the beginning of each semester in the clinical course syllabus.
- **Clinical Competencies** - Students must perform radiographic examinations on patients. Radiographic examinations that can be used for competency testing will be identified at the beginning of each semester in the clinical course syllabus. The number of competencies is indicated in the course syllabus. No duplication of radiographic examinations for clinical competency is allowed.
- **Clinical Performance Evaluation** – Clinical Instructor/Preceptor's evaluation based on observations of student's clinical performance during clinical rotations.
- **Clinical Adaption Journal** – Written assignment of a situation(s) the student encountered during clinical rotations that required critical thinking and adaption to accommodate a patient's condition, age, size, trauma, pathology, and location (mobile, surgical, isolation).
- **Written Exams** -
  - **Midterm/End of Term Exams** – Written clinical exam comprised of materials from all radiography courses.
  - **Equipment Test** - Students will be asked to identify and demonstrate specific radiographic equipment operations and technique selections.
  - **Conversion Test** - Students will be asked to identify and demonstrate specific radiographic equipment operations and technique selections. Students will also be asked to solve radiographic formula equations and utilize critical thinking and problem-solving skills.

In addition, students are required to complete:

- **Clinical Objectives** - must be signed at the end of each rotation by a staff technologist. The Clinical Instructor/Preceptor will then sign to verify completion/incompleteness of all the objectives for a given rotation.
  - Accurately record all required information
  - Submit all clinical objective forms and competency records on dates designated in each clinical course
  - Failure to maintain the above information will result in:

- A reduction of the student's Clinical Performance Evaluation grade
  - Incomplete recorded for the clinical grade, thus the student will not be allowed to enter the next semester until the course work is submitted.
- **Staff Evaluation of Student Clinical Performance** – a measurement tool for a student's clinical performance during clinical rotation. The form is to be completed by Clinical Staff/ Clinical Instructor/Preceptor that assisted the student during the clinical rotation.
  - **Clinical Paperwork**
    - Students must complete all clinical paperwork (objective check sheets, procedures log, timecard, competency book, repeat examination log, etc.)
    - Students must ensure all clinical paperwork submitted is fully completed.
    - Any incomplete or late submission of clinical paperwork will result in **five (5) points** deducted from the final grade in the course. This rule applies for each failure.

Note: During the evaluation process, students should make faculty aware of any issues or concerns during their clinical education experience.

### 8.13 ELECTRONIC DEVICES IN CLINICAL

All electronic devices including mobile phones and smart watches are **PROHIBITED** in the clinical setting. Mobile phone usage is considered hazardous in many areas of the clinical/hospital setting. Additionally, the use of mobile phones and accessories may violate HIPAA regulations. Clinical affiliates strictly prohibit students from using cell phones during clinical education.

Students must adhere to the Electronic Devices Policy (*Radiography Program Policies*). In addition, students may keep mobile phones and smart watches in their backpacks or lockers. The phones and smart watches may be used **ONLY** during meal break. Students who need to be available by phone for their children and/or family members may provide the telephone number of the Clinical Instructor/Preceptor to the family member(s). Family may contact the Clinical Instructor/Preceptor in the event of an emergency.

Failure to adhere to the policy will be considered a violation and will result in a disciplinary action for displaying disruptive behavior while in the learning environment.

### 8.14 STUDENT ACCIDENT OR EXPOSURE GUIDELINES

The student must cooperate with and abide by the regulations of the Clinical Affiliate and the College in dealing with any type of accident, or incident that occurs while a student is participating in a Clinical Education assignment, which results in patient, hospital personnel, or student injury, and/or damage to equipment.

Accident insurance covering the hours students are in school, on field trips, or participating in student activities is provided to all full-time and part-time students. Student insurance is furnished by Forsyth Tech as a service to students, but it is not meant to replace students' personal coverage.

The following guidelines are to be followed in the event of a student injury or inadvertent exposure to blood and/or body fluids, other infectious material via needle stick or splash or radiation while in the clinical setting. If a blood or body fluid exposure occurs, the affected area should be washed with soap and water immediately.

- Notify the Clinical Instructor/Preceptor or designated person immediately.
- The Clinical Instructor/Preceptor or designated person will notify the clinical facility unit leader or course lead instructor.

- A clinical site incident report must be filled out and submitted to the facility unit leader.
- A college incident form must be completed and submitted to Forsyth Tech Business Services. (A copy of the form is to be shared with the program’s Associate Dean and Dean of Health Sciences).
  1. Report to a Physician or Hospital.
  2. Coverage is excess to all other insurance. Claims must be filed with your other insurance carrier(s) prior to filing under this Plan.
  3. Complete and sign a claim form. Please submit one claim form for each Injury. Mail or bring physical copies of the completed claim form, all medical bills, incident report (if available) and copies of your other insurance carrier's Explanation of Benefits (if applicable) to:
 

**Mailing Address:**  
 Forsyth Technical Community College  
 Business Services - Allman Building - 2nd Floor  
 2100 Silas Creek Parkway Winston-Salem, NC 27103

**Email:**  
 Kate Hopper khopper@forsythtech.edu  
 Sharon Ruchala sruchala@forsythtech.edu

**Physical location:**  
 Main Campus - Allman Building -2nd Floor  
 Business Office Suite  
 2100 Silas Creek Parkway  
 Winston-Salem, NC 27103
  4. File claim within 30 days of Injury. Bills should be received by the Company within 90 days of service. Bills submitted after one year will not be considered for payment except in the absence of legal capacity.
  5. If you have questions about a claim, contact: Doug Sutton Insurance Services at (800) 788-7771 or [bonniesutton@dougssuttonins.com](mailto:bonniesutton@dougssuttonins.com). Once we receive the completed form with the proper signatures, we will send to our insurance company, Doug Sutton & Associates, for processing. Please keep an eye out from any communications from the insurance company for your next steps and any other information related to your claim.

## 8.15 COMMUNICABLE DISEASE GUIDELINES

Clinical learning experiences may require that students be assigned to provide care for patients with communicable and infectious diseases. Students in health programs will be educated in the care of patients with communicable and infectious disease processes. They will learn how to protect themselves, other health care providers, patients, and their families from the transmission of the disease.

To protect the health and safety of its students, as well as that of patients, the programs within Health Technologies at Forsyth Tech require:

- Initial physician screenings and pre-exposure immunizations against specified infectious/communicable diseases (student medical form).
- Compliance with the infectious/communicable disease policy and protocols of the agency or facility to which they are assigned for clinical practice as well as the guidelines specified by the Centers for Disease Control and Prevention.
- Compliance with the use of universal precautions in all patient care situations.
- Any exposure incidence such as an accidental needle stick must follow the clinical agency’s protocol and the Health Technologies Student Accident and Exposure Guidelines.
- Students who are exposed to a reportable communicable/infectious disease are required to inform their Clinical Instructor/Preceptor or Clinical Coordinator within 24 hours of exposure.

- A student with a communicable/infectious disease pursuing academic study that requires clinical experiences should be aware that the school cannot guarantee placement at affiliate clinical sites for clinical rotations. Students participating in clinical rotations are subject to the requirements and approval of clinical sites.

## 8.16 STUDENT HEALTH AND SAFETY PROGRAM

### Procedures Prior to Admission

- Tetanus Toxoid
- Physical examination (3 months prior to enrollment)
- Urinalysis
- Rubella Titer or proof of current booster within last 10 years – if non-immune reaction – student immunized
- Rubeola Titer (if date of birth is after 1957 or proof of current booster within last 10 years) – if non-immune reaction– student immunized
- Varicella Zoster, IGG (if negative history or vague about having chicken pox) x2
- Chest x-ray – if clinically indicated or history of positive TST (tuberculin skin test)
- Hepatitis B vaccine (required) – in process prior to first day of enrollment and titer
- Flu shot during designated time

### Procedures Prior to Enrollment

- Tuberculum Skin Test – a two-step test as per policy

### Procedures in Second Year

- Tuberculin Skin Test – annual
- Flu shot during designated time

### Sponsoring Institution Clinical

- Hazardous Materials Control Program
- Substance Abuse Information Program
- Campus Security Program
- Fire Safety Program
- Non-Harassment Program
- Occupational Exposure
- Emergency Preparedness
- Communicable Disease Policy

### Education Settings

- Hazards (chemical, electrical, fire)
- Emergency Preparedness
- Medical Emergencies



- HIPAA
- Standard Precautions

# SECTION 9: HEALTH TECHNOLOGIES - IMAGING DIVISION

## RADIATION SAFETY PLAN

## 9.0 INTRODUCTION

This Radiation Safety Plan (RSP) has been developed in accordance with the requirements of the North Carolina Department of Health and Human Services, Division of Health Service Regulation, and Radiation Protection Section (NCDHHS).

This Radiation Safety Plan applies to the Imaging Division at Forsyth Technical Community College (faculty and students) and the energized laboratories located in Bob Greene Hall. Radiography, Radiation Therapy, and Interventional Cardiac and Vascular Technology programs use energized labs to produce ionizing radiation on phantom (non-living) objects for teaching purposes only.

## 9.1 RADIATION SAFETY OFFICER (RSO)

The current Radiation Safety Officer at Forsyth Technical Community College is LeAnn Scruggs, B.S., R.T.(R)(BD)(CI), RCIS

- The RSO is responsible for:
  - the Radiation Safety Plan
  - providing advice on radiation safety matters and the implementation of radiation safety monitoring programs & policies
  - correspondence and compliance with the NCDHHS Radiation Protection policies
- Each individual imaging program is responsible for:
  - the orientation of all new faculty & students in radiation safety in compliance with the Forsyth Technical Community College Imaging Division Radiation Safety Plan and their individual accrediting body.

## GENERAL INFORMATION

Forsyth Technical Community College must ensure, as far as reasonably acceptable, a radiation safety practice that ensures all persons while in the laboratory and clinical are safe from injury and radiation risks.

Where faculty and students are required to undertake activities which involve the use of ionizing radiation for teaching or instructional purposes, Forsyth Technical Community College must ensure that authorized persons strictly adhere to the Radiation Safety Plan while in the energized lab and clinical setting.

In order to achieve this goal Forsyth Technical Community College has developed procedures outlined in this Radiation Safety Plan, which, if implemented appropriately, should ensure the risks associated with radiation exposure are minimal.

All forms and guidelines for the Radiation Safety Plan are contained within this document and housed in each energized lab, as well as the Radiation Safety Officer's office.

## 9.2 RADIOGRAPHIC UNIT REGISTRATION

The Forsyth Technical Community College radiographic equipment is registered with the North Carolina Department of Health and Human Services (NCDHHS), Division of Health Service Regulation, and Radiation Protection Section. All documents pertaining to the radiographic equipment are filed as listed below.

Documents filed within the Radiation Safety Plan include:

- Current Notice of Registration
- NC Regulation Book
- Notice to Employees (also posted in laboratory)

- Written Safety Procedures
- Review of Written Safety Procedures (reviewed annually by Radiation Safety Officer, faculty, and students)

Documents filed within the appropriate Program Coordinator's Office include:

- Equipment Registration Application
- Plan Review Letter of Acknowledgement
- Post Installation Survey
- Room shielding design
- FDA 2579 form

The energized equipment in this facility was installed following the manufacturer's specifications. Do not alter, tamper with, or remove any of the filters or collimators, or in any way cause needless radiation exposure.

### 9.3 ANNUAL REVIEW

The Radiation Safety Officer will review the Radiation Safety Procedures annually. This review will take place each year with additions/deletions/changes made to the plan prior to the start of the Fall Semester. Upon review the Radiation Safety Officer will share all Radiation Safety Procedures with each programs' faculty and faculty will share with enrolled students. All participants in the review will sign an acknowledgement form that they have read and understand all Radiation Safety policies. The acknowledgement form will be filed in the Radiation Safety Plan notebook.

### 9.4 FACULTY TRAINING POLICY

All faculty teaching in an Imaging Program at Forsyth Technical Community College are required to be currently registered within their field and in good standing with their governing body.

Faculty credentials are kept in the appropriate Program Coordinator's office for review.

All faculty teaching and students enrolled in an Imaging Program with an energized lab at Forsyth Technical Community College will complete an orientation prior to using the energized laboratory. This orientation will be provided by each individual program. The orientation will consist of:

- An introduction to the energized laboratory.
- Review of the Radiation Safety Plan.
- Completion of acknowledgement form documenting completion of orientation.

All acknowledgement forms will be filed in the Radiation Safety Plan notebook.

### 9.5 TECHNIQUE CHARTS

All students are encouraged to reference technique charts prior to making radiographic exposures in all clinical and laboratory exercises. Where applicable technique charts have been developed by program faculty and are available in each energized lab.

## 9.6 RADIATION SAFETY

Forsyth Technical Community College provides personal dosimeters for radiation monitoring of students and faculty to document compliance with ALARA (As Low As Reasonably Achievable) principles. Faculty and Students will wear a radiation monitoring device (RMD) provided at all times during clinical and laboratory assignments.

### **Dosimeter readings will be evaluated against the following guidelines:**

Radiation exposures will be grouped into one of four categories as follows:

#### *I. Below ALARA limits*

- Exposures below ALARA limits require no action to be taken.

#### *II. Above Level 1 ALARA limits*

- Exposures above Level 1 ALARA limits will receive a notice from their Clinical Education Coordinator with a copy sent to the Radiation Safety Officer indicating that they have received a radiation exposure higher than expected, however, no follow-up or response is required. The Level 1 ALARA limits are as follows:

	<b>Monthly</b>	<b>Bi-Monthly</b>
Whole Body Exposure	150-300mrem	300-600mrem
Extremity Exposure	500-1000 mrem	1000-2000 mrem

#### *III. Above Level 2 ALARA limits*

- Exposures above Level 2 ALARA limits will receive a notice and Radiation Dosimeter Report from the Clinical Education Coordinator with a copy sent to the Radiation Safety Officer that they have received a radiation exposure higher than expected. The Radiation Dosimeter Report must be completed and returned so that the possible cause of the higher exposure may be investigated, and corrective action taken. The Level 2 ALARA limits are as follows:

	<b>Monthly</b>	<b>Bi-Monthly</b>
Whole Body Exposure	300-416 mrem	600-832 mrem
Extremity Exposure	1000-4166 mrem	2000-8332 mrem

#### *IV. Above regulatory limits*

- Exposures above the current regulatory limits will be subject to all applicable regulations governing occupational radiation exposure. A written report will be made by the Radiation Safety Officer to the NC Radiation Protection Section with thirty (30) days of the exposure notification and will include the individuals name, social security number, date of birth and all radiation dose information.
  - Radiation dose limits for minors will be 10% of the limits stated above.
  - Students may not hold patients during any radiographic procedures when an immobilization method is the appropriate standard of care. Students may not hold image receptors during any radiographic procedure.
  - Faculty and students must adhere to all Radiation Safety Plans, Policies, and Procedures in practice at all clinical facilities.
  - Any questions regarding these limits or the current ALARA program at Forsyth Technical Community College should be directed to the Radiation Safety Officer.

## 9.7 RADIATION MONITORING DEVICE (RMD)

Faculty Members/ students are required to wear a radiation monitoring device (RMD) at all times during clinical or energized laboratory assignments. An RMD will be worn at or near the neck on the side of the body closest to the radiation source. When lead aprons are worn, the dosimeter will be worn outside the apron.

For the declared pregnant student, the second (fetal) dosimeter is worn at the waist level at all times. If a lead apron is in use, the badge should be placed inside the apron at waist level.

## 9.8 RMD POLICIES & PROCEDURES

1. Each faculty member/student will be provided with a RMD upon employment/program entry and prior to any clinical assignment or energized lab.
  - a) Dosimeters normally will be issued every two (2) months.
  - b) Each faculty member/ student is responsible for changing his/her RMD on or before the assigned date. Failure to return RMD by due date will result in a penalty. See each individual imaging program's dosimeter return policy.
  - c) Radiation exposure reports will be shared with students within thirty (30) days of receipt of the dosimetry report from the vendor. Each student should check and initial his/her radiation exposure report bi-monthly.
  - d) Any individual can obtain a copy of his/her exposure record by submitting a written request to the Radiation Safety Officer.
2. No experience in a radiation area (clinical or energized lab) will be allowed for a faculty member/ student until a replacement badge is assigned. This spare/temporary dosimeter will be worn until the new badge is obtained for the next wearing period. See each individual imaging program's attendance policy for any assigned clinical or laboratory time missed.
  1. Any student losing his/her RMD:
    1. Must inform the Clinical Education Coordinator immediately.
    2. May not attend clinical or energized laboratory assignments.
    3. Will obtain temporary dosimeter from the Clinical Education Coordinator
    4. Follow their program's attendance policy for any assigned clinical or laboratory time missed.
  2. Any faculty losing his/her RMD:
    1. Must inform the Clinical Education Coordinator immediately.
    2. May not attend clinical or energized laboratory assignments.
    3. Will obtain temporary dosimeter from the Clinical Education Coordinator
3. Each faculty member and student should only wear the badge assigned to them.
4. Fluoroscopy has been identified as generating a high level of radiation exposure, thus demanding particular attention to properly wearing RMDs. Forsyth Technical Community College faculty and students, who are regularly exposed to fluoroscopy should wear a minimum of one radiation monitor placed on the collar of the surgical gown at neck level outside the thyroid shield and above the lead apron.
5. Faculty/ Students may only wear their Forsyth Technical Community College RMD during Forsyth Technical Community College clinical hours/ energized lab activities. The student may not wear their RMD during any other work hours with exposure to radiation and/or during for any dental or medical x-ray procedures performed on them.
6. Students enrolled in an Imaging Program at Forsyth Technical Community College who have had prior exposure to ionizing radiation & have been issued an RMD by another institution will be required to submit a written request for their radiation exposure records to their prior institution. These records will be kept on file by the Radiation Safety Officer.
7. Each program will maintain their radiation exposure records according to national/state and/or accrediting agency of the program in which the student is enrolled.
8. The RMD must not be washed or stored in a high radiation area (e.g., car, TV, microwave, clinical education center, etc.) which will affect readings.
9. When not in use, the badges should be carried with the student and not left in clinical or laboratory. The control badge shall be stored in designated area for each energized laboratory.
10. If excessive exposure or a radiation incident is suspected, immediately notify the appropriate Clinical Education Coordinator and the Radiation Safety Officer. A "Radiation Safety Dosimeter Report" must be completed.

Failure to follow these monitoring procedures may result in an inaccurate radiation reading, a deduction of clinical grade, and possible reprimand (see each individual program's RMD policies). Deliberate exposure of the RMD not in compliance with normal occupational exposure is unlawful and may result in dismissal from the program.

## 9.9 PREGNANCY

The radiation dose received by the embryo or fetus of a pregnant faculty member/ student will be limited to internationally accepted limits (50 mrem per month, 500 mrem total). Imaging Programs and Forsyth Technical Community College will not be held liable for meeting the dose limit until the faculty member/ student has declared her pregnancy by submitting a completed Pregnancy Declaration Form to the appropriate Program Coordinator of the pregnant condition, including a statement from her physician verifying pregnancy, conception date, and expected due date. The faculty member/ student shall assume any potential risk of radiation exposure before the pregnancy has been declared. Declaration of pregnancy is voluntary on the faculty member's/ student's part. A faculty member/ student after informing the program of pregnancy may, at any time, rescind (change) the declaration of pregnancy by notifying the Program Coordinator in writing.

Upon receiving a completed Pregnancy Declaration Form and physician statement, the Program Coordinator or Clinical Education Coordinator shall ascertain the faculty member's/ student's exposure for the previous months and will advise the student whether any additional protective measures need be implemented to keep the fetal exposure below 500 millirem.

The student may choose from the following options:

1. Continue in clinical education without modification of the program.
2. Continue in the program with modification
  - a. Continue with clinical and didactic courses with modification of clinical rotations (i.e.: fluoroscopy, portables and surgery).
    - all objectives and competencies will need to be completed prior to graduation
    - Strict adherence to all safety precautions
    - Submit monthly statements from physician about any changes in pregnancy and the advisability of continuing full time.
    - Wear RMDs, one on the collar and one on the abdomen for fetal monitoring. The second dosimeter shall be worn at waist level beneath any leaded protective apron and, in no circumstance, is this dosimeter to be exchanged with the student's primary dosimeter worn outside the apron at collar level. The student radiation exposure will be monitored closely by the Program Coordinator or Clinical Education Coordinator.
  - b. If student maintains full time status, the following are mandatory program requirements:
    - The Program Coordinator shall issue a second RMD to be used to monitor the fetal exposure at no cost to the student. This second RMD is to be used for fetal monitoring during the duration of the pregnancy.
    - Counsel the student related to proper radiation protection or refer the student to a radiation physicist for any questions related to the radiation safety of the developing fetus.
3. Withdraw from program with readmission based on college readmission policy.

The Program Coordinator & Clinical Education Coordinator will conference the faculty member/ student regarding radiation safety of the fetus. The faculty member/ student will be given a copy of the North Carolina Regulations for Protection Against Radiation section pertaining to "Dose Equivalent to an Embryo/Fetus" to review.

Forsyth Technical Community College is required to ensure that the pregnant faculty member/ student does not exceed the dose limit of 500 millirem during the term of the pregnancy. Therefore, if the pregnant student reaches the dose limit, then the faculty member/ student may not remain in clinical or energized lab assignments.

The Program Coordinator or Clinical Education Coordinator will review the fetal badge exposure report bi-monthly with the faculty member/ student. The Program Coordinator or Clinical Education Coordinator will alert the Radiation Safety Officer of any concerns.

## 9.10 RADIATION PROTECTION SEMINAR

Each student enrolled in the Nuclear Medicine Program, Radiography Program, and Radiation Therapy Program must sign the attendance roster before admittance to a clinical facility or an energized lab. The appropriate Imaging Program will keep the roster on file. This is a lecture designed to give the student basic knowledge in medical uses of radiation protection.

## 9.11 ENERGIZED LABORATORIES

### OPERATING AND SAFETY PROCEDURES:

These instructions are provided to comply with the state rules for radiation safety. The North Carolina Division of Health Service Regulation enforces the radiation rules in North Carolina. These rules require that the energized lab equipment meet specific requirements, that specific procedures be followed and that certain records be kept. A copy of these rules titled the North Carolina Regulations for Protection Against Radiation are available for review in the Radiation Safety Officer's Office and in each energized lab.

### GENERAL RULES:

1. The energized lab equipment must be used under the direction supervision of a Forsyth Technical Community College faculty/adjunct faculty. Open lab requires indirect supervision from adjunct faculty.
2. The main generator switch to the energized units are locked at all times when the energized unit is not in use. Only the appropriate faculty has a key to assess the main generator switch.
3. The main door to the energized laboratory must remain closed at all times during exposures.
4. Exposures on radiographic phantoms will be made in the Forsyth Technical Community College energized labs. No exposures to living cells will be allowed in the energized lab. Since no exposures are made on living cells there is no policy regarding the ordering of examinations. All exposures are made during a simulated experience.
5. Restrict the x-ray beam to the area of laboratory interest. The beam size must not be larger than the image receptor, unless it is part of a controlled educational experiment to demonstrate improper beam restriction and its effects. Methods used to restrict the beam will be described in the lab.
6. If any defect is found in protective equipment, notify the Radiation Safety Officer.

## 9.12 ENERGIZED LABORATORIES WITHOUT FLUORO CAPABILITIES

1. Faculty and students must remain outside the energized lab with the energized lab door closed at all times during radiographic exposures. Faculty and students will not remain in the radiographic room while exposures are made. No one is permitted to hold phantoms or image receptors during radiation exposures. Individuals must use positioning devices (ex. tape, sandbags, traction equipment, and mechanical positioning devices) to keep the phantom and image receptor in the desired position during radiation exposure.
2. Students will consult the radiographic technique charts when making exposures in the energized laboratory.
3. Align the x-ray beam with the image receptor by using the light localizer and the centering device.

## 9.13 ENERGIZED LABORATORIES WITH FLUORO CAPABILITIES

1. Forsyth Technical Community College faculty and students should practice the triad of the fundamental principles of radiation protection: **time, distance, shielding**. All other standards of radiation safety are based upon these three principles.

1. The amount of radiation received is controlled by time of exposure. Forsyth Technical Community College Faculty and students should practice safety standards for limiting the time of exposure to radiation.
2. Forsyth Technical Community College Faculty and students should be familiar with the Inverse Square Law related to radiation safety that states the exposure rate from a point source of radiation is inversely proportional to the square of the distance from the source.



- The following principle applies: the distance from a point source of radiation is doubled, the exposure is quartered (ex. A student standing four meters from an X-ray source will be exposed to 1/4 as much radiation as a Forsyth Technical Community College Faculty member standing two meters from the source). Therefore, the Forsyth Technical Community College faculty and student should control the amount of radiation received by controlling the distance from the source of radiation.
  - It is recommended all Forsyth Technical Community College faculty and students stand as far away as possible from the source of the radiation.
3. The amount of radiation is reduced upon passage through materials.
    - Lead shield devices are efficient shields for protection against X-ray radiation. All Forsyth Technical Community College faculty and students should wear the appropriate device or stand behind a barrier or exit the energized laboratory.
  4. The direct beam of radiation equipment should be avoided, as well as limit the time Forsyth Technical Community College Faculty and students are near the source of the beam.

*An important component of the radiation dose to surgery personnel is scattered radiation, in particular from fluoroscopy, which requires an elevated awareness of the safety precautions to be practiced.*

2. The fluoroscope should be used at its lowest settings possible that provide a satisfactory image for lab simulations.
3. Scattered radiation depends on the direction of the C-arm fluoroscopy beam. A minimally angulated tube that is positioned under the table will minimize radiation exposure to Forsyth Technical Community College Faculty and students, in particular if the beam is vertical.
4. Ceiling mounted shields are an option to decrease scattered radiation as long as they do not interfere with multidirectional fluoroscopy; the proper use of shields reduces the exposure by a factor of three.
5. To further reduce exposure to scatter radiation, surgical personnel should stand on the image intensifier or receptor side of the fluoroscopy machine.
6. When using fluoroscopy, the phantom should be positioned as close as possible to the image intensifier side of the fluoroscopic equipment, and as far away as possible from the tube side, to reduce scatter radiation.

#### 9.14 MOBILE/PORTABLE C-ARM EXAMS

Policies listed for “Energized Laboratories with fluoro capabilities” apply to the use of the portable c-arm. The portable c-arm at Forsyth Technical Community College is housed in the Radiography Lab in Bob Green Hall (BGH 112A) or Radiation Therapy Lab (BGH W104). Only faculty has a key and can access the portable c-arm. If exposures are made with the portable c-arm for simulation purposes the exposure will be made only on radiographic phantoms in the lead lined rooms inside BGH 112, (112A and 112B).

1. For mobile fluoroscopy the source to skin (SSD) must not be less than 30-centimeters.

#### 9.15 MOBILE/PORTABLE EXAMS

The portable unit at Forsyth Technical Community College is housed in a Radiography Lab in Bob Green Hall (BGH 112B). The key to this unit is placed in the locked storage closet within the lab (BGH 113A) at all times when not in simulation use. Only radiography faculty has a key to the locked storage closet and can access the portable unit key.

Although the portable unit is used for simulation purposes only, a lead apron will remain on the unit. If exposures are made with the portable unit for simulation purposes the exposure will be made only on radiographic phantoms in the lead lined rooms inside BGH 112, (112A and 112B). The operator must wear a lead apron, stand outside the room, extending the exposure switch at least six (6) feet, closing the door to the energized room as tightly as possible (without damaging any exposure hand switch cords) before making the exposure. No person shall be present in the room while exposures are made. No faculty member or student will hold a phantom or image receptor during an exposure.

In the event a portable unit (including the portable c-arm) is moved to the Health Technology Simulation Lab in Bob Greene Hall (BGH W315) on the campus of Forsyth Technical Community College, a Radiography faculty member must be present at all times. The mobile unit will be used for simulation exercises only (set up of radiographic exams). **No exposures will be made in the Health Technology Simulation Lab.**

Faculty or students not following the policies outlined for use of the energized lab at Forsyth Technical Community College will be conferenced receiving the appropriate reprimand according to their Imaging Program's policies.

#### 9.16 QUALITY ASSURANCE ACTIVITIES

Each individual program is responsible for their energized laboratory's quality assurance activities.

#### 9.17 SIGNAGE

"Caution Radiation Area" signs with the universal radiation symbol are displayed on the outside of the main exterior entrance all energized labs, on the outside of the energized lab door, and/or in the adjoining rooms with an entrance into the energized lab area.

#### 9.18 SHIELDING DEVICES

With the exception of Interventional Cardiac and Vascular Laboratory, lead aprons are used for instructional purposes only. Students are not allowed to remain in the energized lab while exposures are made. Lead aprons used in energized labs are provided and maintained by Forsyth Technical Community College and stored in the energized laboratory. Shielding devices should be properly cared for according to guidelines provided by experts in the radiation safety community.

Lead aprons are provided by each clinical facility for students/ faculty members during clinical assignments. Each student will be fitted by their Clinical Instructor/Preceptor for a lead apron appropriate for their size. These lead aprons are provided and maintained by the clinical facility.

Students have the option of purchasing their own lead, in which case they are responsible for maintenance.

*The following are recommendations for the inspection and testing of leaded shielding devices:*

1. Leaded shielding devices should be physically examined for gross defects including tears, perforations, and thinning creases. Devices that do not pass physical inspection should be removed from use and disposed.
2. Devices that pass physical inspection should be examined fluoroscopically annually (before the fall semester) using manual settings. Automatic brightness control should not be used, because it will increase the tube current and voltage that results in unnecessary radiation exposure to medical personnel. Shielded areas will appear dark and defects, seams and stitching will appear light. Any device with a defect will be removed from service. See the leading shielding device check off for fluoroscopic inspection.
3. Defective devices should be immediately removed from service and disposed of properly. Under the Resource Conservation and Recovery Act, the Environmental Protection Agency has established regulations for the disposal of hazardous wastes. Leaded shielding devices meet the criteria for hazardous waste.
4. Proper storage of leaded shield devices is important to maintain the integrity of the lead. Lead aprons and thyroid shields should be stored on a flat surface or preferably hung vertically; lead aprons should be hung from the shoulders. The devices should never be folded to avoid cracking.
5. Recommendations for cleaning devices include using cold water and a mild detergent solution, but do not use solvents, including bleach that would affect nylon fabric, urethane, polyvinyl chloride, or manmade rubbers.

*Policies and procedures for wearing leaded shielding devices:*

1. Forsyth Technical Community College faculty and students adjacent to the main radiation beam should wear a 0.5 mm lead apron.
2. Forsyth Technical Community College faculty and students, who may have to turn and stand with their back to the radiation beam, should wear a wrap-around lead apron. However, Forsyth Technical Community College faculty and students should face the radiation beam as often as possible. It is important to remember that the front of the lead apron contains a thicker layer of lead than the backside.
3. Leaded aprons of different sizes, as far as length and width, should be available to in order to provide the needed protection. Shielding the upper portion of the legs and upper chest, in particular the breasts of females, is critical to protecting the long bones, bone marrow and soft tissues of the chest.
4. Forsyth Technical Community College faculty and students 70cm (24inches) away from the direct beam during fluoro, should wear a lead thyroid shield and leaded eyeglasses.
  - The thyroid shield should be worn to protect the soft tissue structures of the neck, when the possibility exists for a high risk of radiation exposure.
  - Leaded eyeglasses should be worn by anyone who are adjacent to the main radiation beam, to prevent injury to the eyes, including cataracts, corneal ulcerations, and radiation-induced opacities.

A copy of the room shielding design is contained the appropriate Program Coordinator's Office.

#### 9.19 ALARA

The Radiation Safety Plan for Forsyth Technical Community College's energized laboratories has procedures outlined in the Radiation Safety Plan to minimize exposure to all persons participating in lab and clinical experiences.

Forsyth Technical Community College faculty and students must adhere to all Radiation safety policies and procedures outlined in the Radiation Safety Plan. Forsyth Technical Community College faculty and students are responsible for learning and abiding by all Radiation Safety Plans at each clinical facility.

In addition, students entering the radiography and radiation therapy program are introduced to radiation safety & protection during new student orientation.

The radiation monitoring device policy is located in the Radiation Safety Plan.

#### 9.20 SERVICE PROVIDERS

Each program has their own service provider for their energized laboratory. Service is provided as needed. All service records are kept by each individual program.

## SECTION 10: PROFESSIONAL SOCIETIES/ORGANIZATIONS

## 10.0 NORTH CAROLINA SOCIETY OF RADIOLOGIC TECHNOLOGISTS, INC(NCSRT)

The North Carolina Society of Radiologic Technologists, Inc. accepts student members. Membership entitles the student to participate in the society's meetings and seminars, which offer informative lectures given by qualified professionals from North Carolina and the nation. A student must be a member of the North Carolina Society to submit papers or exhibits for consideration in Society competitions. (Application can be found at [www.ncsrt.org](http://www.ncsrt.org) )

- *The Radiography Program faculty strongly recommend students become members of their statesociety.*

## 10.1 AMERICAN SOCIETY OF RADIOLOGIC TECHNOLOGISTS (ASRT)

ASRT has many resources just for students. They help students prepare for the future and success in school.

Membership includes:

- **Exam Preparation-** student members get access to the *Radiography Student Exam Assessment Library™* which will help get them set for the radiography exam.
- **Resources and Study Tools-** the Student Center contains study modules and drill and practice exercises, among many other online resources.
- **Prepare for the Clinical Environment-** access to the Compliance Suite containing 33 modules on key competencies for working in health care.
- **Career Assistance-** access information videos and tips on résumés, job searches, interviews and more. Plus, you can ask questions and network with other students and R.T.s in your area in the ASRT Communities.
- **Exclusive Discounts-** save money on items you need such as textbooks, scrubs, shoes, ARRT exam preparation materials, home, and auto insurance and more. For additional information, visit [www.asrt.org](http://www.asrt.org).
- **Group membership is mandatory and will be established through the Program Coordinator.**

## 10.2 NATIONAL CERTIFICATION: THE AMERICAN REGISTRY OF RADIOLOGIC TECHNOLOGISTS(AART)

The American Registry of Radiologic Technologists is the nationally recognized certifying body for the profession. Upon completion of the curriculum, the student is eligible to apply to sit for the Registry Examination. This examination is given at selected test centers in North Carolina. All tests are computerized and scheduled dates and times are mandatory. Once application is accepted by the ARRT, the student is eligible to sit for the examination. Application forms will be distributed by the Program Director. [www.arrt.org](http://www.arrt.org)

## 10.3 LAMBDA NU NATIONAL HONOR SOCIETY FOR RADIOLOGIC AND IMAGINGSCIENCES

Lambda Nu (LN) is a national honor society for the radiologic and imaging sciences. Its objectives are to:

- Foster academic scholarship at the highest academic levels

- Promote research and investigation in the radiologic and imaging sciences
- Recognize exemplary scholarship

Radiologic and imaging sciences students, alumni, and faculty qualify for membership according to the following standards:

- Section A. Professional course GPA 3.0 or higher on 4.0 scale after one full time semester (or equivalent) of a professional program.
- Section B. Enrollment in a radiologic or imaging sciences program as a full-time student for at least oneterm.
- Section C. Evidence of professional commitment beyond minimum requirements of the program, including at least one, but not limited to:
  - GPA higher than Chapter minimum (3.5 to 4.0)
  - Active membership in a professional organization, as evidenced by:
    - holding office or committee appointments
    - preparing for presentation of a professional paper or poster
    - preparing for competition in a Quiz-Bowl
    - Clinical-based employment in a radiologic or imaging sciences field

Lambda Nu's name is derived from the lower-case Greek characters in the formula  $\ln$ , which represents the physics of the inverse relationship between wavelength and frequency an essential parameter across the diversity of modalities comprising the professions.

Lambda Nu uses the upper-case Greek characters Lambda and Nu to represent the inverse relationship and delicate balance required between the art and the science inherent in the radiologic and imaging sciences.

Lambda Nu's colors are:

- Maroon for the radiologic and imaging sciences
- Green for the health professions
- Gold the ancient color of honor

# SECTION 11: STANDARDS FOR AN ACCREDITED EDUCATIONAL PROGRAM IN RADIOLOGIC SCIENCES

## 11.0 STANDARDS FOR AN ACCREDITED EDUCATIONAL PROGRAM IN RADIOGRAPHY

### **Standard One: Accountability, Fair Practices, and Public Information**

The sponsoring institution and program promote accountability and fair practices in relation to students, faculty, and the public. Policies and procedures of the sponsoring institution and program must support the rights of students and faculty, be well-defined, written, and readily available.

### **Standard Two: Institutional Commitment and Resources**

The sponsoring institution demonstrates a sound financial commitment to the program by assuring sufficient academic, fiscal, personnel, and physical resources to achieve the program's mission.

### **Standard Three: Faculty and Staff**

The sponsoring institution provides the program adequate and qualified faculty that enable the program to meet its mission and promote student learning.

### **Standard Four: Curriculum and Academic Practices**

The program's curriculum and academic practices prepare students for professional practice.

### **Standard Five: Health and Safety**

The sponsoring institution and program have policies and procedures that promote the health, safety, and optimal use of radiation for students, patients, and the public.

### **Standard Six: Programmatic Effectiveness and Assessment: Using Data for Sustained Improvement**

The extent of a program's effectiveness is linked to the ability to meet its mission, goals, and student learning outcomes. A systematic, ongoing assessment process provides credible evidence that enables analysis and critical discussions to foster ongoing program improvement.

**Note:** A complete printed copy of the JRCERT Standards is available for review, it is located in the Radiography classroom W203. An electronic copy may be found at [www.JRCERT.org](http://www.JRCERT.org) (Select Programs & Faculty, JRCERT Standards, and then Radiography Standards 2021)

## 11.1 RESOLUTION OF COMPLAINTS RELATING TO NON-COMPLIANCE WITH THE STANDARDS FOR AN ACCREDITED EDUCATIONAL PROGRAM IN RADIOLOGIC TECHNOLOGY

The Radiography Program at Forsyth Technical Community College is accredited by:

The Joint Review Committee on Education in Radiologic Technology

20 North Wacker Drive, Suite 2850

Chicago, IL 60606-3182

(312) 704-5300

E-Mail: [mail@jrcert.org](mailto:mail@jrcert.org)

The Radiography Program follows due process upon receipt of a written, signed allegation that the Program does not comply with the STANDARDS. Responses to allegations will be handled within ten working days of receipt.



The complaint should be directed to:

Dean, Health Sciences Division  
Bob Greene Hall  
2100 Silas Creek Parkway  
Winston-Salem, NC 27103  
(336) 734-7412

If the complaint is not reconciled, it should be appealed to:

Chief Academic Officer of Student Academic Success  
Allman Building  
2100 Silas Creek Parkway  
Winston-Salem, NC 27103  
(336) 734-7629