2014-2016

Radiologic Technology Program

Additional Policies in the Jefferson College Course Catalog & Student Handbook

It is the policy of Jefferson College that no person shall, on the basis of age, ancestry, color, creed, disability, genetic information, marital status, national origin, race, religion, sex, sexual orientation, or veteran status, be subject to discrimination in employment or in admission to any educational program or activity of the College. In compliance with Federal Rules and Regulations, Jefferson College has adopted a procedure for resolving complaints of discrimination.

Jefferson College
1000 Viking Drive, Hillsboro, Missouri 63050
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Jefferson College – Radiologic Technology Program

Student Handbook

College Mission

Jefferson College is a student-centered comprehensive community college, committed to providing an accessible, quality college experience as it strives to meet the diverse needs of the students and the community. Superior teaching and services foster a supportive learning environment, which promotes intellectual, social, and personal growth. A strong general education curriculum, college transfer and technical programs, personal enrichment courses, and on-campus experiences prepare students to succeed in their careers, further their education, and prosper in a diverse world. Jefferson College’s ongoing assessment of students, programs, and services assures that it is a responsive and progressive community college.

College Vision

Our shared vision for Jefferson College is to become widely recognized as a premier comprehensive community college where student achievement and student success are central to every endeavor.

Led by highly qualified college trustees, administrators, faculty, and staff, students master knowledge, skills, competencies, and values in a participative, innovative learning environment.

The institution will be a model for enlightened, shared governance and will continue to strive for accreditation with distinction attesting to the excellence of its policies, practices, and services.

College Goals

Student Growth
• Balanced opportunities for all students to encourage intellectual, personal, and social growth and continued learning

Student Mastery of Skills
• Mastery of intellectual and technical skills that will ensure career success

Student-Centered Services
• A supportive and effective higher educational environment that enhances student learning

Diversity
• Preparation of students for excelling in a world of cultural and intellectual diversity

Assessment
• The use of assessment for continued student, personnel, and program improvement

Shared Governance
• Enlightened and shared governance of the institution

Professional Growth
• Continued professional growth within the college community that supports effective teaching and competent services

Academic Freedom
• Academic freedom that challenges students and welcomes diversity of thought and discussion

Community Service
• Leadership in the cultural, educational, economic, environmental, and social development within the community

Program Mission

The Radiologic Technology Program at Jefferson College is committed to preparing liberally educated, competent, caring and socially responsible medical imaging technologists by providing an accessible, quality college experience as it strives to meet the diverse needs of the students and the community.
Program Vision

The Radiologic Technology program at Jefferson College will foster excellence in teaching and scholarly inquiry by promoting learning opportunities in cutting-edge technology, academic rigor and an open exchange of ideas so to ensure an environment which exemplifies caring and service to the community by preparing students with the attributes of responsible citizens who are committed to lifelong learning and who are critical thinkers, creative, capable and culturally sensitive practitioners. In doing so, we will provide educated students with marketable skills and expertise in current imaging technologies.

Student Learning Goals

In order to achieve this vision, the following goals were established:

Goal #1 – Clinical Competence:
The Student will demonstrate the ability to perform procedures, tasks and skills accurately while maintaining effective quality assurance and patient care.

Goal # 2 – Critical Thinking:
The student will develop and use analytical and clinical decision-making skills in radiologic technology.

Goal # 3 – Professionalism:
Students will model professional, ethical and legal standards while integrating the concepts of improvement of health care, scholarship in clinical practice and lifelong learning as part of their professional development.

Goal # 4 – Communication Skills:
Students will demonstrate effective communication skills.

Student Learning Outcomes:

Upon graduation:

- Students will apply positioning skills to accurately demonstrate anatomical structures within a radiographic image. Goal #1
- Students will select appropriate exposure factors to achieve optimum radiographic techniques with minimum radiation exposure to the patient. Goal #2
- Students will apply principles of radiation protection to the patient, self and others when performing radiographic procedures. Goal #3
- Students will demonstrate patient care and comfort essential to radiographic procedures. Goal #3 & #4
- Students will operate equipment within established safe limits, assess and report equipment malfunctions and possess knowledge of quality assurance activities. Goal # 1 & # 2
- Students will demonstrate professional communication skills (verbal and nonverbal) while in the clinical setting. Goal #3 & #4
- Students will practice written communication skills. Goal # 4
- Students will demonstrate successful performance on oral presentations. Goal #4
- Students will demonstrate independent judgment and discretion in the technical performance of medical imaging procedures. Goal # 2
- Students will recognize non-routine patient conditions and initiates appropriate interventions. Goal #2
- Students will evaluate radiographic images for appropriate positioning and image quality. Goal #2
- Students will successfully complete a critical thinking assignment in a clinical education course. Goal # 2
- Students will practice the importance of continued professional development by scheduling and maintaining continuing education as a function of growth and maintenance of professional competence. Goal # 3
- Students will exhibit professional behaviors by demonstrating professional accountability, critical thinking and interpersonal skills. Goal # 3
- Students will promote the Radiologic Technology profession. Goal # 3 & #4
Accreditation

The Jefferson College Radiologic Technology Program is an accredited program through the North Central Association of Colleges and Schools Higher Learning Commission (HLC) and is a recognized accredited program by the American Registry of Radiologic Technologists. More information on accreditation can be found on the ARRT website at: www.ARRT.org

The program is also seeking accreditation by the Joint Review Committee on Education in Radiologic Technology (JRCERT). The JRCERT assures employers and prospective students that our program provides educational excellence and patient and professional safety. Many states which require licensure of radiologic technologists will only recognize graduates of JRCERT accredited programs. JRCERT accreditation assures graduates that they will be eligible for licensure or certification in all 50 states.

It is the faculty’s desire to create the highest quality radiologic technology program available. If a student has concerns with program policies or practices, please bring them to the attention of the Program Director or the Clinical Coordinator. Issues may be easily resolved once we are aware of them.

After accreditation is achieved concerns with the program’s compliance with JRCERT policies are subject to the Grievance and Appellate Process. Grievances may be initiated by students, employees of Jefferson College, or other interested parties. The grievance and appellate process can be found within the student handbook at the following link: http://vega.jeffco.edu/bdye/studenthandbook.pdf

After accreditation, if the complainant believes the program still to be in violation of JRCERT policies, the JRCERT may be contacted directly at:

Joint Review Committee on Education in Radiologic Technology
20 N. Wacker Drive
Suite 2850
Chicago, IL 60606-3182
(312) 704-5300
www.jrcert.org
Admissions

Students in the Radiologic Technology Program are admitted to the college on the same basis as other students, but admission to the college does not ensure admission into the Radiologic Technology Program. A selection committee comprised of at a minimum the Program Director and Clinical Coordinator will review all application material. Members of the advisory committee and possibly other college personnel may evaluate students for the Program.

The prospective student should print the application packet from the Jefferson College Radiologic Technology website (www.jeffco.edu/RAD), and submit all required documentation included in that packet, by the application due date.

The Program’s requires the student to pay an application fee of $50, which covers processing, partial fees for background check, drug screening, and immunization tracking. The remainder of payment, $100, for a total of $150, will be due upon admission into the program. Payments may be submitted to Cashier’s office at any Jefferson College Campus location. Questions about forms of payment can be directed to 636-481-3123.

Minimum Requirements

In order to submit for application and be presented to the selection committee, the applicant must:

1. **Be able to complete all prerequisite coursework, listed below, by the end of the summer semester in which student is applying.**
2. **Have a cumulative college GPA of 2.75 or greater on a 4.0 scale.**

Applicants not meeting these requirements will not be presented to the selection committee.

Prerequisites

All prerequisite courses must be completed by the end of the summer semester in which the student is applying. Anatomy & Physiology must be completed in the past 5 years; all other prerequisites must be completed within the past 10 years.

1. **BIO211 - Anatomy & Physiology I with Lab** (4 credit hours – must pass with a B or higher)
2. **BIO212 - Anatomy & Physiology II with Lab** (4 credit hours – must pass with a B or higher)
3. **ENG101 - English Composition 1** (must pass with a C or higher)
4. **MTH128 - Intermediate Algebra** (must pass with a C or higher)
5. **COL101, COL100 or GUD136 - Intro. To College, Freshman Seminar or Mastering the College Experience** (with a C or higher)
6. Either **BIT138, CIS122, CIS125, CIS133, EDU205 or PHY223 - Computer Literacy** met by coursework or exam (with a C or higher)

Co-Requisites

Students should make every effort to complete the following courses prior to starting the program:

1. **HST103 or PSC102 - US History I or US & MO Govt. and Constitutions** (must pass with a C or higher)
2. **PHL203 - Medical Ethics** (must pass with a C or higher)
3. **PSY101 or SOC101 - General Psychology or General Sociology** (must pass with a C or higher)
Essential Qualifications

All individuals, including persons with disabilities, who apply for admission to the radiologic technology program, must be able to perform specific essential functions with or without reasonable accommodation.

The following outlines the abilities and behavioral characteristics necessary for the radiologic technology program at Jefferson College. These are standards of the profession.

The applicant should carefully review the essential qualifications for the program and ask questions if not familiar with the activities or functions listed. The applicant must decide if he or she has any limitations that may restrict or interfere with satisfactory performance of any of the requirements. It is ultimately the applicant’s responsibility to meet these essential qualifications if accepted into the program.

These requirements are consistent with the employment requirements of our clinical education sites. Prior to final admission to the program, students will be asked to obtain a physical exam from their physician ensuring the student abilities.

Hearing
- Able to hear and understand patients and staff; assess and monitor patient sounds.
- Communicate and interact with patients, staff and families from a variety of cultural backgrounds.
- Follow verbal instructions.
- Use a stethoscope to hear heart and breath sounds.
- Detect and discriminate between sounds of normal conversation.
- Able to hear verbal directions when person giving the direction is not facing the student or is wearing a surgical mask.
- Ability to hear sounds of a variety of equipment alarms and monitors. Hear faint body sounds (for example: blood pressure sounds).

Mobility
- Possess sufficient functional strength and mobility to support and move patients.
- Be able to remain in a standing position for 90 minutes.
- Be able to move quickly from place to place to perform patient care.
- Support and transfer patients safely from bed/table to wheelchair, wheelchair to bed/table, and modify patient position on table or in bed.
- Move in and out of treatment areas.
- Respond to emergency situations in a timely manner.
- Reach equipment and parts of patient's body. Reach above shoulder height to manipulate equipment. Reach below waist level to manipulate equipment. Bend, stoop and squat.

Visual
- Able to monitor and assess patient and equipment function; to provide safe and effective care.
- Read written instruction/orders.
- Read fine print, monitors, and gauges.
- Differentiate between subtle differences in shades of gray. (i.e. radiographic densities such as metal density, water density, fat density, and air density).
- Chart (write) procedures and observations legibly in a permanent medical record.
- Ability to see and discriminate between a variety of equipment visual alarms.
- Ability to observe demonstrations and patients close up and at a distance to learn skills and to gather patient data (e.g., observe a patient's gait, appearance, posture, breathing, etc.).
- Use of depth perception.
- Use of peripheral vision.
Motor Skills (fine and gross)
- Perform multiple motor tasks simultaneously.
- Fine and gross motor skills sufficient to handle equipment and provide safe and effective patient care; steady arm and hand movements while manipulating objects or assisting patients.
- Be able to lift 50 pounds.
- Move, adjust and manipulate a variety of x-ray equipment (including the physical transportation of portable x-ray machines weighing up to 200 lbs.) in order to arrange and align the equipment with respect to the patient and image receptor according to established procedure and standards of speed and accuracy.
- Carry up to 20 lbs.
- Prepare equipment and materials for administration of contrast media and other fluids. Manipulate a syringe and needle to prepare medications and perform venipuncture.
- Prepare equipment to suction patients, and adjust gauges.
- Lift and transport oxygen cylinders; attach regulators; move in and out of treatment areas.
- Push/pull hospital beds; transport patients.
- Lift at least 25-100 pounds (in assisting in patient transfer) and move patients safely.
- Perform airway management and CPR.
- Squeeze with fingers.
- Enter data into a computer (usually done by typing).

Physical Endurance
- Maintain physical tolerance (stand/walk) for an entire assigned shift (typically 8 or 10 hours).
- Able to tolerate leaded apparel for extended periods of time. (Up to 90 minutes.).

Tactile
- Able to assess patient’s response to therapy tactiley.
- Distinguish textures, degrees of firmness, temperature differences, pulse rate, vibrations and strength.

Smell
- Detect and distinguish odors from client and environment.

Communication
- Able to communicate in English orally and in writing with patients and members of the health-care team using correct grammar, punctuation and spelling.
- Verbal communication must be clear and easily understood.
- Able to read and comprehend written material in English.
- Communicate verbally in an effective manner in order to explain and direct patients as it relates to their examinations and to physically place patients in proper positions for the examination according to established procedure and standards of speed and accuracy.

Intellectual, Cognitive and Critical Thinking
- Problem solve - able to measure, calculate, reason, analyze, synthesize, integrate and apply information.
- Use long-term and short-term memory.
- Identify cause-effect relationships
- Plan/control activities for others.
- Sequence information.

Behavioral and Social
- Possess the emotional health required to use their intellectual abilities fully, such as exercising good judgment, promptly completing all responsibilities attendant to the diagnosis and care of patients, and developing mature, sensitive and effective relationships with patients and other healthcare workers.
- Candidates must be able to deal effectively with the stresses encountered in nearly 40 hours of class work per week in addition to family and life demands.
- Able to adapt to changing environments, to display flexibility, and to learn to function in the face of uncertainties and ambiguities inherent in the clinical problems of many patients.
- Have compassion, integrity, concern for others, interpersonal skills, interest and motivation.
- Monitor own emotions and able to keep emotional control.
Ethical Standards
- Demonstrate professional demeanor and behavior and must perform in an ethical manner in all dealings with peers, faculty, staff and patients.

ETHICAL BEHAVIOR ELIGIBILITY REQUIREMENT

The American Registry of Radiologic Technologists (ARRT) ethical behavior eligibility requirements specify that every applicant for certification must "be a person of good moral character and must not have engaged in conduct that is inconsistent with the ARRT Rules of Ethics," and they must "agree to comply with the ARRT Rules and Regulations, the ARRT Standards, and the ARRT Standards of Ethics."

One issue addressed by the Rules of Ethics is the conviction* of a crime, including a felony, a gross misdemeanor or a misdemeanor, with the sole exception of speeding and parking violations. All alcohol and/or drug related violations must be reported.

*Conviction as used in this provision includes a criminal proceeding where the individual enters a plea of guilty or nolo contendere. All potential violations must be investigated by the ARRT in order to determine eligibility. Further information may be found on the ARRT web site in the handbooks for radiography certification.

Individual clinical sites may prohibit students to rotate through their facilities if a felony conviction is found on the background check, regardless of ARRT ethics board results/investigation.

Applicants should be aware of this limitation on certification prior to entering the Radiologic Technology Program. Practice of Deceit in the application procedure is cause for dismissal from the Program.

If a student has concerns regarding eligibility to sit for the ARRT examinations, please contact the ARRT at:

The American Registry of Radiologic Technologists
1255 Northland Drive
St. Paul, MN 55120
(651) 687-0048
www.arrt.org
Selection Process

We cannot offer admission to all the qualified applicants, the Program’s enrollment is limited to clinical placement and accreditation standards. Only students meeting the minimum requirements will be presented to the Admissions Committee. Final selection will be made by the Admissions Committee and the students with the highest total scores will be selected for the Program. The following information is evaluated during the selection process:

Personal References, observation time and evaluation, completion of pre-requisite/co-requisite coursework, GPA in prerequisite and general education classes, interview scores based on: professionalism, critical thinking ability, and written essay based on: motivation for the profession, previous healthcare experience and realistic expectations.

The information above is directly related to the program’s Mission, Vision and Goals and is the only information that is considered during the selection process. Every effort is made to insure that the selection process is fair and equitable to all applicants. Multiple interview ratings and essay ratings are averaged in determining the final score. The selection process strives to achieve a well-rounded assessment of the student as a whole.

It is the policy of Jefferson College that no person shall, on the basis of age, ancestry, color, creed, disability, gender, national origin, race, religion, or veteran status, be subject to discrimination in employment or in admission to any educational program or activity of the College.

Criminal Background Checks

Providing patient care is an important and sensitive aspect of being a radiologic technologist. There are certain moral and ethical standards required of people who provide patient care. In order to assure our clinical sites of the high moral character of our students, all Radiologic Technology students must submit to a Criminal Background Check. The student is responsible for the cost of background checks, which covers processing, fees for background check, drug screening, and immunization tracking. A total of $150 dollars will be paid by the student.

This profile accesses:

1. Child Abuse/Neglect Records – Division of Family Services
2. Senior Care Registry (EDL) Disqualification List
3. Missouri Statewide Criminal History Record Search
4. Social Security Number Trace
5. Residential History Search
6. Nationwide Sex Offender Registry
7. Federal Criminal History Record Search
9. General Services Administration (GSA) Excluded Parties List

Students listed on the Employee Disqualification lists will not be allowed to continue in the program. Students who have criminal convictions, but are not listed on the Employee Disqualification lists must submit to a Pre-application Review of Eligibility for the American Registry of Radiologic Technologists and be found eligible to sit for the ARRT examination in order to continue in the program. The cost for the Pre-application Review is $75.00.
Student Complaint Policy

It is the policy of the Radiologic Technology Program (Program) to welcome comments, suggestions, ideas and constructive criticism as part of the continuous and systematic Program evaluation and improvement.

In the event of a complaint regarding the Program, or anyone affiliated with the Program, the following procedures will be followed:

Individuals formally or informally affiliated with Jefferson College have the right to express their concerns regarding the Program or any of its affiliates. The Program supports the chain of command that encourages any individual with a concern, complaint, or problem to address the issue with the involved person first. Should a resolution of the problem not occur after reasonable attempt or within a reasonable amount of time, the Program Director or Division Chair of Health Occupation Programs, should be notified in writing? If a complaint/grievance appeal is related to discrimination or harassment, Director of Human Resources should be notified. If a complaint or grievance is related to Title IX or within its provision, the Title IX Coordinator and the Associate Vice President of Student Services should be notified. These policies are outlined below and in the “Student Conduct Code” section of the Jefferson College Student Handbook.

Grievance Procedure

In addition to defined College policies, students may address issues and/or concerns at the Program level. It is always best to solve issues with the person(s) directly involved. If, after discussion, an issue cannot be resolved the student is encouraged to address the appropriate Program faculty: course instructor, Clinical Coordinator, or Program Director. The Program faculty member has two (2) business days to address the issue with the student after being alerted of the situation by the student or instructor. If the issue has not been resolved, the student must bring the issue to the Radiologic Technology Program Director by expressing his/her concern in writing. The Director, within two (2) business days of receipt of the correspondence, will respond to the student with a verbal and written explanation. If the issue/concern is not resolved, the student may address the issue to the Division Chair of Health Occupation Programs. If needed the student will be referred to the “Student Appeal Process for Misapplication of College Policies, Procedures and Practices” in Jefferson College Student Handbook.

Grade Reports and Appeals Process

Upon receipt of the grade in question, the student shall immediately contact the instructor of record to determine why the discrepancy exists between the grade expected and the grade received. This contact shall be in person whenever possible, and every effort must be made by both parties to satisfactorily settle the matter at this level.

If the issue cannot be settled on an informal basis to the satisfaction of both parties, the appellant shall follow the guidelines as set forth in the “Grade Appeal Process” in the Jefferson College Student Handbook.

Appellate Process

Alleged violations of a student’s rights, including violations of the Sexual Harassment Policy, the Student Conduct Code, the Substance Abuse Policy, the Family Educational Rights and Privacy Act, the Campus Security Policy and the ADA Policy, are subject to a Grievance and Appellate Process. Cases where the dispute involves a purely academic matter, such as an allegedly unfair grade are handled through normal academic channels as listed above, and this process does not apply. Grievances may be initiated by students, employees of Jefferson College, or other interested parties. Please refer to the “Student Appeal Process for Misapplication of College Policies, Procedures and Practices” in Jefferson College Student Handbook.

Non-Discrimination Notification

Under Title IV, Title IX, Section 504, and The Americans with Disabilities Act

It is the policy of Jefferson College that no person shall, on the basis of age, ancestry, color, creed, disability, genetic information, marital status, national origin, race, religion, sex, sexual orientation, or veteran status, be subject to discrimination in employment or in admission to any educational program or activity of the College. In compliance with Federal Rules and Regulations, Jefferson College has adopted a procedure for resolving complaints of discrimination.
The procedure is available to any Jefferson College student, employee, or applicant who feels that he or she has been discriminated against in employment, student programs, or student activities. The Americans with Disabilities Act (ADA) Coordinator for students is the Disability Support Services Coordinator, Office - Library 110, (636)481-3169/797-3000, ext. 3169. The College Coordinator of Title IX is the Director of Enrollment Services, Office – Student Center 122, (636)481-3230/797-3000, ext. 3230.

Students with concerns regarding any alleged discriminatory act or occurrence falling within the provisions of any of the Federal Rules and Regulations other than Title IX or ADA as specified above may contact the Associate Vice President of Student Services, Office – Student Center 205, (636)481-3200/797-3000, ext. 3200.

Employees, applicants, or other individuals with concerns regarding any alleged discriminatory act or occurrence falling within the provisions of any of the Federal Rules and Regulations other than Title IX or ADA as specified above may contact the Director of Human Resources, Office - Administration 133-E, (636)481-3157/797-3000, ext. 3157.

Sexual Harassment Policy

Sexual harassment is a violation of both state and federal laws and of Jefferson College's policy. Any unwelcome conduct of a sexual nature that interferes with the work or education of its victims, their co-workers or fellow students will not be tolerated. Such actions may subject the responsible party to appropriate disciplinary action up to and including dismissal or expulsion. In accordance with the law, any person who knowingly and intentionally files a false complaint against another shall be subject to disciplinary action up to and including dismissal or expulsion. Please refer to the “Sexual Assault Awareness and Reporting Procedure” in the Jefferson College Student Handbook for further information.

Academic Dishonesty/Misconduct

Students are encouraged to assist each other and exchange information in order to master the concepts and skills covered in this class and to seek tutoring if necessary. However, collaboration on any graded assignment or exam to the extent that it is not an individual student's total, personal effort will be considered as a violation of the “Student Conduct Code” as printed in the Jefferson College Student Handbook.

When an academic exercise is designed to result in a grade, any of the following activities constitute violations of academic honesty unless expressly authorized in advance by the instructor.

I. Academic Dishonesty

Plagiarism: The unauthorized use of materials not written or created by the person claiming authorship.

Plagiarism includes but is not limited to the following:
1. Turning in a written essay produced by someone else.
2. Collaborating on a written assignment without the specific approval of the instructor.
3. Borrowing materials from any source—professional or amateur—and turning them in as original.
4. Failure to acknowledge through appropriate citations any words, ideas, research, graphics, etc. produced by someone other than the person claiming authorship.

Cheating: Dishonest acts committed while being tested or evaluated.

Cheating includes but is not limited to the following:
1. Copying from another person's tests or assignments.
2. Using unauthorized test aids such as notes, drawings, books, cellphones, etc., during an examination.
3. Submitting a paper which was turned in to another instructor in another class to fulfill part of that course's required work—unless agreed upon ahead of time by the instructor of the second course.
4. Aiding another student in dishonesty such as producing written work or sharing information during a test period.
5. Fabricating research or source materials.
6. Stealing, buying, or somehow obtaining a test from an instructor's work area or computer files.
Penalties for Academic Dishonesty/ Misconduct

If any violations of academic dishonesty or misconduct occur, the course instructor has the option to give a minimum of a zero grade for the paper, assignment, or test on which the violation occurred. Instructors may recommend a more stringent course of action or recommend an appeal to the Program Director. In very serious or repeated cases of academic misconduct, the penalty may include: academic probation, failure of the class or expulsion from the program and/or college.

Initiation of Action.
If a faculty member believes a student has committed an act of academic misconduct while performing work under his or her supervision, the instructor shall provide a written document to the student that details the alleged violation and the proposed penalty for that violation. The student must sign a copy of this document to acknowledge receipt (this does not indicate agreement with the allegation). The student will then have 5 working days to meet with the instructor to further discuss the allegation of academic misconduct and the proposed penalty. Either party may choose to have a witness present at the meeting. Should the student fail to meet with the instructor within 5 days, the penalty will be imposed and the matter considered closed. It is the responsibility of the instructor to provide copies of the document describing the violation and the proposed action to the student. The Program faculty member shall inform the Program Director of all academic misconduct, supply documentation of the alleged violation and the proposed penalty. The Program faculty will also supply copies of any written documentation that has been given to the student.

Faculty/Student Meeting.
The faculty member shall, at this meeting, present the penalty imposed to the student. The student shall indicate either written acceptance or non-acceptance of the penalty. The issue will be considered resolved at this level if both parties’ sign in acceptance of the penalty imposed. If the issue/concern is not resolved, the student needs to address the issue with the Program Director within two (2) for resolution. The Program Director then has two (2) days to review the case and provide a written response to the student and Program faculty involved. If needed the student will be referred to the Division Chair of Health Occupation Programs and/or the Dean of Career and Technical Education. If the matter still cannot be resolved the student will be referred to the “Student Appeal Process for Misapplication of College Policies, Procedures and Practices” in Jefferson College Student Handbook.

If persistent counseling, violations of academic dishonesty or misconduct occur, the student will be subject to a Review Board hearing to determine his/her continuance in the program.

Probation
Probation is a formal warning to the student concerning their performance in a particular area. At the time the student is placed on probation, an improvement plan will be developed and the probationary period set. Students may be placed on probation for the following reasons:

1. **Academic** - Any subject with a grade below a “C.” Counseling will occur at the first signs of academic difficulties or if a student fails to meet the grading requirements as outlined in each course syllabus. Students failing any class or failing to meet testing requirements must appear before the Review Board, for a hearing, to determine continuance in the program and course of action.

2. **Clinical** - Any clinical rotation with a grade below 86%, or failure to meet the critical skill areas outlined in the clinical evaluation/clinical syllabus such as: safety, documentation, procedures, patient care, etc. Students failing any clinical area for the semester must appear before the Review Board for a hearing, to determine continuance in the program and course of action.

3. **Attendance** - Attendance probation will be issued when the student exceeds the maximum amount of allowable absences. The student will be provided a written reminder of the attendance/tardy policy. On any absence over the limit student must appear before the Review Board for a hearing, if they would like to remain in the Radiologic Technology program. If the student fails to appear before this board at the scheduled time, automatic dismissal will result.

4. **Behavioral** – Examples of behavioral misconduct include: poor attitude, poor interpersonal relationships, hygiene, lack of initiative, sleeping in class, etc. Counseling will occur at the first signs of
behavioral difficulties and a plan of action will be developed. Students failing to meet the requirements set forth in the plan of action must appear before the Review Board to determine continuance in the program.

5. **Essential Qualifications** – Student regularly fails to meet the Essential Qualifications due to illness or injury. Counseling will occur at the first signs of difficulties and a plan of action will be developed. Students failing to meet the requirements set forth in the plan of action must appear before the Review Board for a hearing to determine continuance in the program.

At the close of the stated probationary period the student's progress will be re-evaluated by Program Director. At that time the student will be removed from probation or required to appear before the Review Board, for a hearing, to determine continuance in the Program.

**Radiologic Technology Grading Scale**

**Grades and Credits**

The Radiologic Technology grading scale is as follows:

- **A**=92-100%
- **B**= 86-91.9%
- **C**=80-85.9%
- **D**=70-79.9%
- **F**=69.9% and below
- **I**  Incomplete
- **W**  Withdrawn
Review Board

The Review Board shall meet to consider student appeals regarding program dismissal pursuant to academic, clinical, attendance, behavioral, or Essential Qualifications policies.

The Board shall include, but is not limited to, the following: a member of Jefferson College’s administration, the Program Director of Radiologic Technology, the Clinical Coordinator of Radiologic Technology, and a program advisory board member and/or other Department of Health Occupations faculty. Other persons may be designated by the Program Director to serve on the Review Board as deemed appropriate.

Initiation of Review Board Process

The following steps will be followed when initiating the Review Board process by Program Director.

1. The Program Director shall discuss, consult, and advise with any student whose conduct is called into question. The student is entitled to a written notice of the alleged violation(s), its source in the Radiologic Technology Handbook and/or policies, and a notice of formal Review Board hearing. The student shall attend such consultations as requested.
2. The student shall have at least five (5) days to prepare for the Review Board hearing and will be given a date to appear before the Review Board. The student will be allowed to attend classroom and/or clinicals until the Review Board hearing, unless the Program Director and/or faculty feels that the violation is seriously disruptive or there is reason to believe that the student is in violation of College Code of Conduct and the student's continued presence will cause further violations.
3. The student will be allowed to have a school representative with him/her when he/she appear for the formal Review Board Hearing. The student must inform the Program Director of the representatives presence prior to the hearing, or the representative will not be allowed to partake in the hearing.
4. Any request for continuance shall be made in writing to the Program Director, who shall have the authority in his/her discretion to continue the hearing if he/she determines the request is timely and made for good cause. The student is expected to appear on the date given, non-appearance will automatically trigger acceptance of the infraction, and the student will be dismissed from the program.

Procedure for Review Board Hearing

1. The Program Director shall preside at the hearing, call the hearing to order, call the roll of the committee in attendance, ascertain the presence or absence of the student charged, establish the presence of any representative of the student, read the notice of hearing and charges, and certify the receipt of notices of charges by the student, and report any continuances requested or granted.
2. Student shall present case (15 minutes allotted).
3. Questions and clarification entertained from Board members (15 minutes allotted).
4. At this time, the student is dismissed from meeting with date and time to meet with Board chairperson in regards to decision of board.
5. The Board will consider all the facts under the circumstances of each case in deciding whether to grant or deny the relief requested.
6. Board discusses appeal and makes decision regarding request. Board chairperson will issue in writing the decision of the board.

If the student is not in agreement with the final decision of the Review Board, he/she is referred to the “Student Appeal Process for Misapplication of College Policies, Procedures and Practices” section of the Jefferson College Student Handbook and is to make a written appeal to the Vice President of Student Services within five (5) days after notification of the Review Board’s decision. A copy of this decision should accompany the appeal.

All information discussed within the Review Board meeting is confidential.

Records of all grievances and resolutions shall be confidentially maintained by the Program Director for five (5) years in accordance with institution’s / programs retention policy and in compliance with the Family Educational Rights and Privacy Act of 1974 as amended.
Family Educational Rights and Privacy Act (FERPA)
(Policy Regarding Student Records)

Official records are maintained on each student enrolled in the College. Procedures for development and use of cumulative record files are written to comply with the Family Educational Rights and Privacy Act of 1974 as amended. Information placed in student records is limited to those items necessary to fulfill the purpose of student records as stated above or as may be required by law, by state regulation, or as authorized by the Board of Trustees. Please refer to the “Official Student Records” policy and the “Notification of Rights Under FERPA” policy in the Jefferson College Student Handbook for further information.

Prohibition Policy Against Drug and Alcohol Abuse

Jefferson College and the Radiologic Technology Program intends to provide a drug free, healthful, and safe educational environment for students and other members of the College community and the patients we serve in the clinical setting.

The following policy is set forth in order to:

- Maintain a working, learning and clinical education environment that is safe and healthy for students, faculty, staff, and the patients we care for.
- Ensure a positive reputation of the College and its graduates within the community.
- Minimize the number of accidental injuries to person or property.

All students and program faculty members are prohibited from being under the influence of alcohol or illegal drugs during classroom/clinical hours. The unlawful manufacture, distribution, dispensing, possession, or use of an illegal or controlled substance while in a College vehicle, on College property, or at a College sanctioned activity is strictly prohibited. Possession of prescription drugs, on campus or at clinical sites, by any person other than the one for whom it was prescribed is prohibited. Such drugs will be used only in the manner, combination, and quantity prescribed.

An alcoholic beverage is any beverage that may be legally sold and consumed and has an alcoholic content in excess of 3% by volume. A drug is any substance capable of altering an individual’s mood, perception, pain level, or judgment. A prescription drug is any substance prescribed for individual consumption.

The Jefferson College Radiologic Technology program will adhere to the clinical sites’ requirements for drug and alcohol testing. Drug screenings will be performed on all admitted students prior to the start of clinical education in the fall of their first year. Random drug/alcohol tests may be requested periodically throughout the year. Drug testing may be required if the student is involved in an accident at the clinical site, if he or she is observed using a prohibited substance, if he or she exhibits a severe and prolonged reduction in productivity, or any other reasonable cause. If the initial testing is positive, a second test may be required to determine the exact substance. All tests will be performed at the student’s expense. If the results of testing prohibit the student from entering the clinical site, the student must appear before the Review Board, for a hearing. They will determine the appropriate course of action which may include dismissal from the program. Positive results will be reported to appropriate authorities. Any student who fails to submit to a required testing will be considered positive and subject to discipline, including dismissal from the program. Please refer to the “Prohibition Policy Against Drug and Alcohol Abuse” in Jefferson College Student Handbook for further information and sources of assistance.

Substance Abuse Counseling

Students needing assistance in dealing with drug/alcohol dependency are encouraged to make contact with College counselors who will provide confidential assistance, information, or appropriate assistance sources in the area.
Jefferson College will inform students and employees of the College Drug and Alcohol Abuse Policy on an annual basis and provide information on community resources available to assist individuals deal with drug/alcohol related problems. Additionally, the College will make drug/alcohol abuse information and educational information available to members of the College community on an ongoing basis and will review its Drug and Alcohol Abuse Policy and prevention efforts biennially. Please refer to the “Prohibition Policy Against Drug and Alcohol Abuse” policy in the Jefferson College Student Handbook for further information.

Smoke-Free/ Tobacco Free Policy

Clinical educational sites may limit smoking and use of smokeless tobacco products on grounds. All students will be required to follow the facilities smoking/tobacco policies.

In order to promote health and safety, while maintaining the cleanliness of college property, all Jefferson College campuses are smoke-free/tobacco-free environments under a policy adopted by the Board of Trustees.

The use of tobacco and all smoke-related products (including cigarettes, cigars, pipe tobacco, smokeless/chewing tobacco, electronic cigarettes, herbal smoke products, hookahs, and beedies) is restricted to inside personal vehicles. The policy pertains to all students, faculty, staff, other employees, contractors, performers, and visitors. Those who violate the policy are subject to a $25 fine.

Federal and State Financial Aid

Jefferson College participates in many types of federal and state student financial aid programs. The goal of the College’s financial aid program is to help individuals who meet a demonstrated financial need to acquire funds to enter and succeed in college. Therefore the student carries the responsibility to demonstrate satisfactory academic progress.

Students who wish to be considered for financial assistance must apply for admission to Jefferson College. Students may submit their FAFSA (Free Application for Federal Student Aid) to the Federal Processing Center by mail or online at www.fafsa.gov. Paper copies of the FAFSA are only available by contacting the Federal Student Aid Information Center at (800) 433-3243. Students without Internet access may submit their FAFSA online by using computers located in the Student Financial Services Office at the Hillsboro campus. Students will need to indicate that Jefferson College is to receive the electronic report from the processing center. The Jefferson College Title IV School Code is 002468. FAFSA worksheets are available at the various Jefferson College locations.

Financial assistance is available at Jefferson College through scholarships, grants, loans, and part-time employment. A number of scholarships sponsored by area civic clubs, businesses, and individuals are available for qualified students. Some provide funds for only one year, while others are renewable for the second year. Eligibility for many scholarships is determined by information provided on the Jefferson College scholarship application. Applications are available online or in the Student Financial Services Office at Hillsboro, or the offices at Jefferson College Arnold, Jefferson College Northwest, or Jefferson College Imperial. Applications are due each year by March 1 for graduating high school seniors and June 1 for continuing students, returning students, and non-traditional aged students.

Students are encouraged to read “Financial Aid Guidelines” and “Financial Aid Implication Related to Attendance” in the Jefferson College Student Handbook for a full description of their financial aid responsibilities.
Student Health

Upon selection for the upcoming class, students must provide the following health information. Documentation will be requested during summer Registration Day and must be complete prior to the start of clinical rotations. These immunizations and tests may be obtained for a nominal fee at the student’s local county health department.

1. Documentation of hepatitis B vaccine prior to the first day of clinical or a signed waiver absolving Jefferson College, any institution or person of any responsibility in event of infection.
2. Documentation of negative 2-step Mantoux test for tuberculosis or a negative chest x-ray if skin test is positive. These tests must have been done no earlier than 3 months prior to entering the clinical component of the Radiologic Technology Program.
3. An immunization history with proof of 2 doses of MMR after the age of 15 months
4. Tetanus/Diphtheria/Pertussis (Td/Tdap) within the last 10 years
5. Influenza vaccination within past year
6. History of Varicella (chickenpox) or the vaccine.

Prior to beginning clinical experience and continuing throughout the program students will be instructed in the technical skills and knowledge necessary to protect themselves when exposed to communicable diseases. Information on handling of body fluids and methods of infection control will be included in course content.

Students are required to report any illness, communicable disease or other condition that might affect the health of the student, patients, or staff to the program director as soon as they become aware of such condition. Appropriate student confidentiality will be maintained.

If the student is exposed to body fluids by needle stick, other puncture wounds or by other means such as splashes in the classroom or during clinical experience it is the responsibility of the student to report the incident immediately to an instructor. The instructor will inform the student of the appropriate action to be taken.

Each Radiologic Technology Program student is responsible for his/her own health and hospital insurance coverage. Neither Jefferson College nor any of the affiliated clinical sites are responsible for payment of charges incurred due to student’s illness or injuries. Use of the Emergency Department will be billed to the student. **Students are not covered under Workman’s Compensation; therefore, all students are urged to have some type of medical hospitalization insurance. Clinical site rotations may be limited if the student does not possess their own healthcare insurance.**

Health insurance for students is available through United Healthcare. Community colleges in the state of Missouri have collaborated with United Healthcare so that health insurance can be available at a discounted group rate. Students must apply directly to United Healthcare, utilizing the group name of Missouri Community College Association. The following link has information about the health care plan available:

Pregnancy Policy

Students should be aware that there is a possibility of radiation injury to an unborn fetus with the greatest risk occurring during the first trimester. A female student has the option of whether or not she wants to notify program officials of her pregnancy. If the woman chooses to voluntarily inform officials of her pregnancy, it must be in writing and indicate the expected date of delivery. The pregnant student can also withdraw her declaration of pregnancy at any time during the pregnancy, this must be done in writing to the program director or clinical coordinator.

A student who notifies the program of her pregnancy has the following options:

Option #1: The student may continue the educational program without modification or interruption.

Option #2: The student may continue in the program with the following restrictions being imposed on clinical rotations:
The pregnant student will have limited exposure to the following:
1. Fluoroscopic procedures
2. Portable procedures
3. Surgical procedures
4. Procedures involving radium-implant patients
5. Nuclear Medicine procedures
Substitute clinical rotations will not be provided. All clinical rotations missed by the student will be made up at the end of the program. This will result in a delay in the completion of the program. In addition to the clinical restrictions, the pregnant student will be expected to complete all of the standard clinical requirements.

Option #3: A pregnant student may request a leave of absence not to exceed one year and either withdraw from or attempt to complete the courses she is currently enrolled in. There would be a place reserved for the student in the next accepted class, and it would not be necessary to submit another application for admission to the program.

Option #4: A pregnant student may request to withdraw from the program for an indefinite period of time. If she wished to be reinstated, she must submit an application and compete for readmission to the program. Any previous coursework taken would be reevaluated at the time of readmission to assure that competency has been maintained.

Program Patient Care Criteria

When students are in a patient care area, they are to realize that the goal of providing quality patient care supersedes all other individual or personal objectives, including teaching, learning and research. In arranging priorities, the first and most important objective must always be to provide patient care. When that goal is addressed properly, the student’s education objectives of learning radiologic technology will automatically follow, and the knowledge that they seek will be acquired as a natural by-product of the rendering of patient care.

In summary, the criteria which students utilize to prioritize their efforts should list patient care first and foremost, followed by education and training, and lastly, research.

Radiation Protection

There are potential hazards associated with exposure to ionizing radiation. The biological effects of ionizing radiation can depend, among other factors, on: the amount of the dose and the rate at which it is received; the type of tissue irradiated; and the age and gender of the exposed person. The biological damage is primarily due to the fact that charged particles (ion pairs) that result from ionization yield highly reactive free radicals. These radicals then readily interact with molecules in the irradiated cells to break chemical bonds or produce other chemical changes.

Because it is difficult to demonstrate the relationship between low levels of occupational dose and effect (somatic, genetic or developmental), it is imperative that all students and staff take the proper precautions when in the room during ionizing radiation exposures.
In the Jefferson College Radiologic Technology Code of Ethics, it states the “Radiation Protection Standards must always be maintained in, and outside of the radiology department.” In the ARRT’s Code of Ethics for Radiologic Technologists, it states “The radiologic technologist utilizes equipment and accessories, employs techniques and procedures…and demonstrates expertise in limiting the radiation exposure to the patients, self and others of the health care team.”

No excuses will be acceptable for not taking the proper radiation safety precautions. Students **MUST** take the proper precautions when performing portable exams or any other radiographic procedure. Lead aprons **MUST** always be worn when in the room when ionizing radiation is being produced.

The radiography program administration and faculty view this issue to be serious. Failure to follow these standards will warrant appropriate disciplinary action. Student safety is important.

**Radiation Monitors**

As radiation exposure is known to be hazardous, student exposure will be monitored on an on-going basis. Students will be provided with radiation monitoring devices called “radiation badges”. Students are expected to wear their radiation badges at all times in the clinical setting and during laboratory experiences when exposures are being made. Badges should be worn outside the lead apron, at the collar level during fluoroscopy and surgical procedures when the student is present in the room for the exposure. Students will review their radiation exposure with the Program Director or Clinical Coordinator on a monthly basis. The maximum exposure for students enrolled in the Radiologic Technology program shall be considered 10% of the maximum allowable exposure for occupational exposure or 500 mrem deep dose equivalent per year or 40 mrem per month. Exposures of 25% of the maximum allowable exposure will be considered a sentinel event and the student will be counseled concerning radiation safety practices. Students exceeding 40 mrem deep dose equivalent for any month will be placed on probation. Students exceeding 40 mrem deep dose equivalent for a second month must appear before the Review Board to determine whether they will be allowed to continue in the program.

It is extremely important that the radiation exposure readings are accurate. Radiation monitors should not be left on lead aprons in the exam room, in hot cars or laundered. Under no circumstances should a student intentionally expose a film badge to radiation. Such behavior may result in immediate dismissal from the program without consideration for readmission.

**Film Badges**

Each monthly Occupational Radiation Exposure Report should be initialed by the student. Students with high dose readings will be counseled by the program faculty about the student’s clinical activities and behavior. Radiation dosimetry reports will be kept on file at the college.

Film badges are considered part of the program uniform. Students not wearing a film badge will receive one percentage point deducted from the clinical grade for each occurrence. In addition, the student may be sent home or placed in a non-radiation area for that day. Losing a film badge will result in two percentage points deducted from the clinical grade for each occurrence.

**Honors List**

**Dean’s List**

At the end of each fall and spring semester, the College issues an honor list of students who have achieved a grade point average of 3.25 or better for 12 or more semester hours taken that semester. Names will be distributed to local newspapers for publication.
Graduation Honors
A candidate for an associate degree who has earned a cumulative grade point average of 3.50 or higher is awarded his/her degree cum laude; a 3.80 cumulative grade point average is magna cum laude; and a 4.00 cumulative grade point average is summa cum laude. A student must have earned at least 40 of his/her credit hours at Jefferson College to be eligible for graduation honors. A candidate for a certificate who has earned a cumulative grade point average of 3.50 or higher in the required courses is awarded a certificate with distinction.

Recognition for Outstanding Scholarship Award
The Recognition for Outstanding Scholarship Award is presented to the associate degree candidate(s) with the highest cumulative grade point average in his/her graduating class.

Mallinckrodt Award
Presented to one graduating Radiologic Technology student who demonstrates leadership skills, high motivation, the ability to work independently and as an integral part of a team and displays a positive attitude while completing clinical rotations and in the classroom setting. This student must be in excellent academic standing (3.5 GPA or above on a 4.0 scale), maintained clinical performance scores of 90% or better, be recommended by a clinical instructor / faculty and shown evidence of active participation in college / professional organization (committees, special award, honors, etc.).

Joint Review Committee on Education in Radiologic Technology (JRCERT) Certificate of Excellence Award
Presented to one graduating Radiologic Technology student who demonstrates outstanding attitude, professional demeanor, and cooperation and maintained clinical performance scores of 86% or better.

Clinical Excellence in Radiography Award
Presented to the graduating Radiologic Technology student(s) who demonstrate(s) outstanding clinical performance. Maintained clinical performance scores of 94% or better.

LAMBDA NU- Missouri Gamma Sigma Chapter
(Radiologic and Imaging Sciences – National Honor Society)

Lambda Nu 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

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

In a similar manner, 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 professions of:

- radiography
- radiation therapy
- nuclear medicine
- diagnostic medical sonography
- cardiovascular-interventional technology
- mammography
- computed tomography
- magnetic resonance imaging
- quality management
- bone densitometry
- medical dosimetry
Lambda Nu's Home Chapter is at Arkansas State University.

Lambda Nu’s colors are: maroon for the radiologic and imaging sciences, forest green for the health professions and gold the ancient color of honor

Individuals who have achieved academic honors are welcome to apply for acceptance to their local chapter of Lambda Nu. The national criteria are a 3.0 grade point average (4.0 scale), “B” average, or equivalent academic measure after one full time semester of a professional program, although school chapters may set higher standards. Exemplary honors may be achieved upon evidence of additional professional recognition (i.e., academic paper or poster presentation, publication, etc. according to individual Chapter standards).

Membership is earned by radiologic and imaging sciences students, alumni, and faculty according to the following standards:

**Student**

Professional course GPA of 3.0 or higher on 4.0 scale after completing one full time semesters (or equivalent) of a professional program.

a. Enrollment in a radiologic or imaging sciences program as a full time student for at least two years.

b. Evidence of professional commitment beyond the minimum requirements of the program, including, but not limited to:
   a. GPA higher than Chapter minimum.
   b. Actively pursuing an independent research project.
   c. Clinical based employment in a radiologic or imaging sciences field.
   d. Active membership in a professional organization, as evidenced by:
      i. Holding office or committee appointments.
      ii. Preparing for presentation of a professional paper or poster.
      iii. Preparing for competition in a Quiz-Bowl.

**Faculty**

Faculty members are eligible for membership upon meeting the following criteria:

b. Actively teaching at the institution of the above chapter (full time, part time, adjunct, or guest faculty).

**Alumni**

Alumni members of Jefferson College are eligible for membership upon meeting each of the following criteria:

a. Evidence of a cumulative GPA of 3.0 or higher on 4.0 scale after completion of a radiologic or imaging science program.

b. Active membership in a radiologic or imaging professional organization, as evidenced by:
   i. Serving as an officer or a committee appointment.
   ii. Presentation of a professional paper or poster.
   iii. Document current “active” professional certification (i.e., American Registry of Radiologic Technologists (ARRT) or other nationally recognized credentialing body).

**Faculty & Alumni**

All members must register and pay national dues as well as meet all chapter obligations.

**Exemplary Honors**

Exemplary honors may be achieved upon evidence of advanced professional recognition (i.e., presentation at state/national, recipient of noted award, publication in a peer-reviewed journal, etc.)

For more information on Lambda Nu please visit their website: www.LambdaNu.org or contact the Missouri Gamma Sigma Chapter Advisor, Janet Akers, at 636-481-3253.
Radiologic Technology Curriculum

### Year 1

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<tr>
<th>Prerequisites</th>
<th>Hr.</th>
<th>Fall</th>
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<td>RAD 105: Intro to Radiography 1-8</td>
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<td>RAD 200: Clinical Practicum I 1-16</td>
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<td>RAD 115: Rad Positioning I 1-8 + Lab</td>
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<td>RAD 135 Rad Positioning III 1-8</td>
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<td>RAD 220: Clinical Practicum III</td>
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Intro to College, Freshman Seminar or Mastering the College Experience, English Composition I, Intermediate Algebra and Computer Literacy are required prerequisites and must be completed with a C or better prior to entering the program. Anatomy & Physiology I and II must be completed with a B or better prior to entering the program.

** It is highly recommended that the courses followed by asterisks be completed prior to entering the program.
Radiologic Technology Course Descriptions

RAD101 Radiation Protection
This course shall provide the student with an overview of the principles of radiation protection, including the responsibilities of the radiographer for patients, personnel and the public. Radiation health and safety requirements of federal and state regulatory agencies, accreditation agencies and health care organizations are incorporated. (F)

RAD105 Introduction to Radiography
Prerequisites: Admission to Program, Reading Proficiency
This course shall provide the student with an overview of Radiologic Technology and its role in health care delivery. Students will be oriented to the academic and administrative structure of the program, radiographer role and responsibility, and to the profession as a whole. Basic principles of radiation safety and protective measures will be introduced including regulatory agencies. (F)

RAD115 Radiographic Positioning I
Prerequisites: Admission to Program, Reading Proficiency
This course consists of lecture and practicum in routine radiographic procedures for the chest, abdomen and extremity studies using relevant structural relationships, landmarks in radiographic positioning, types and sizes of image receptors used for each study, routine positioning and techniques of the region, medical terms, definitions, abbreviations and symbols. Radiographic anatomy, radiation protection and patient care skills are reinforced. This course is a portion of the five steps to clinical competency and must be completed with an 86% or better in both the lecture and practicum sections. (F)

RAD120 Image Evaluation
This course shall provide the student with the knowledge and skills necessary to perform radiologic procedures for the chest, abdomen and extremity studies. An introduction to chest, abdomen, upper extremity, lower extremity, hip & pelvis and relevant mobile/trauma procedures for adult and pediatric patients is reinforced. Utilization of anatomical landmarks, body planes and line, and film size are reinforced. The student will practice radiation protection standards and evaluate radiographic image quality in simulated clinical conditions. Students will use their knowledge of anatomy, positioning and exposure factors to critique radiographs and determine if radiographs are of proper diagnostic quality. (F)

RAD125 Radiographic Positioning II
Prerequisites: Admission to Program, Reading Proficiency
This course consists of lecture and practicum in routine radiographic procedures for the thorax and spine as well as contrast studies using relevant structural relationships, landmarks in radiographic positioning, types and sizes of image receptors used for each study, routine positioning and techniques of the region, medical terms, definitions, abbreviations and symbols. Radiographic anatomy, radiation protection and patient care skills are reinforced. This course is a portion of the five steps to clinical competency and must be completed with an 86% or better in both the lecture and practicum sections. (F)

RAD130 Patient Care Management
Prerequisites: Admission to Program, Reading Proficiency
This course focuses on technological and assessment skills and concepts required to build a foundation for holistic care of patients. The student gains a beginning understanding of the nurse’s responsibilities as a member of the interdisciplinary health care team so to apply that understanding to the diagnostic imaging environment. Instruction will introduce the basic concepts of cultural and legal aspects of patient care, vital signs, medical asepsis and infection control, hygiene, body mechanics and mobility, safety, documentation, evaluation of physical needs and surgical asepsis. (F)

RAD135 Radiographic Positioning III
Prerequisites: Admission to Program, Reading Proficiency
This course consists of lecture and practicum in routine and trauma radiographic procedures for skull, facial bone and sinus studies using relevant structural relationships, anatomical landmarks in radiographic positioning, types and sizes of image receptors used for each study, routine and non-routine positioning and techniques of the region, body planes and lines, medical terms, definitions, abbreviations and symbols. Radiographic anatomy, radiation protection and patient care skills are reinforced. The student will evaluate radiographic
image quality in simulated clinical conditions. This course is a portion of the five steps to clinical competency and must be completed with an 86% or better in both the lecture and practicum sections. (S)

RAD140 Radiographic Exposures  
**Prerequisites:** Admission to Program, Reading Proficiency  
This course introduces the student to the fundamental principles of radiographic exposure: radiation production, equipment function, collimation and filtration of the beam, control of secondary radiation, and automatic processing technique. In addition the application of anatomical and pathological conditions affecting image quality will be addressed. (F)

RAD150 Cross-Sectional Anatomy  
**Prerequisites:** Admission to Program, Reading Proficiency  
This course will introduce application techniques, image formation, computer anatomy and picture archiving of digital imaging. Processing and computer tomography concepts are presented. Fundamental study of the human anatomy including bones, organs, vessels and tissues in cross-section will be conducted. Specific procedures imaged for the head, brain, neck, thorax, abdomen and pelvis will be addressed. A general review of scanning protocol, patient preparation and evaluation of radiographic image quality will be discussed. Knowledge of cross-sectional anatomy will lead to a greater understanding of modalities such as CT, MRI and Ultrasound. (S)

RAD155 Radiographic Biology  
**Prerequisites:** Admission to Program, Reading Proficiency  
This course will provide an overview of the principles of the interaction of radiation on the human body. Radiation effects on molecules, organisms, and factors affecting biological response, and acute and chronic effects of radiation are discussed. This course will also review radiation protection measures. (F)

RAD160 Radiographic Physics  
**Prerequisites:** Admission to Program, Reading Proficiency  
This course provides the student with the principles of x-ray generation and use, including the mathematical, electrical, chemical, and physical concepts necessary for x-ray production and beam characteristics. An introduction to the x-ray equipment, instrumentation and control, and the unit of measure is provided. An analysis of production and measurement of radiation, interaction with matter and film, the study of x-ray tubes, rating charts, and x-ray circuits will be presented. (S)

RAD165 Radiographic Pharmacology  
**Prerequisites:** Admission to Program, Reading Proficiency  
This course covers the fundamentals of pharmacology including drug absorption, metabolism, and excretion responses for selected drugs and contrast media used in radiology and radiographic procedures. The desired effects, mechanism of actions and adverse effects of contrast media on the human body are discussed. An introduction to venipuncture is included. (F)

RAD170 Radiographic Pathology  
**Prerequisites:** Admission to Program, Reading Proficiency  
This course is an introduction to the basic nature and cause of disease, radiographic manifestation of disease processes and acute injury, and their related radiographic significance. (S)

RAD175 Image Intensification & Equipment  
**Prerequisites:** Admission to Program, Reading Proficiency  
This course provides the student with the knowledge of x-ray equipment routinely utilized to produce diagnostic images. An overview of various recording media and image intensification units used in radiology will be discussed. (F)

RAD180 Introduction to Quality Assurance and Advanced Imaging Modalities  
**Prerequisites:** Admission to Program, Reading Proficiency  
This course provides the student with the principles of a Quality Management program including theory, tools, procedures and assessment of images. Quality Control measures pertaining to processors, equipment, fluoroscopy and ancillary equipment are discussed. Quality Management of digital radiographic imaging equipment is discussed. Advanced imaging modalities including computed tomography, digital radiography,
ultrasound, magnetic resonance imaging, mammography, special procedures, nuclear medicine, and radiation therapy will also be discussed. (S)

**RAD185 Radiography Curriculum Review and Professional Development**
**Prerequisites:** Admission to Program, Reading Proficiency
This course provides the student with a general review of all previous coursework through multiple examinations on concepts in radiation protection, patient care management, radiographic procedures, image production and equipment operation, so as to prepare the student for the national registry exam. This course also discusses matters involving current trends in imaging, career options, the importance of critical thinking skills and continuing education to the profession, and professionalism of registered Radiologic Technologists. (S)

**RAD190 Radiologic Technology Independent Study (optional) 1-3 credits**
**Prerequisites:** Admission to Program, Reading Proficiency
This independent study course is designed to give the student the opportunity to study and be tested on specific areas of radiologic technology that they may be interested in. This self-paced course is designed to assist the radiologic technology student to obtain a deeper education in the selected area of the radiologic sciences including, but not limited to, CT, MRI, nuclear medicine, radiation therapy and ultrasound career paths. Students have the opportunity to repeat this course as many times as they would like. (F,S,Su)

**RAD200 Clinical Practicum I**
**Prerequisites:** Acceptance to Radiologic Technology Program, Reading Proficiency, RAD115 Radiographic Positioning I, RAD125 Radiographic Positioning II
This clinical practicum is the first course in a series of five clinical education courses designed for development, application, analysis, integration, synthesis and evaluation of clinical competencies that have been taught previously in positioning courses. Supervised clinical rotations will be performed in basic areas of radiologic technology at assigned clinical sites. Radiology students will complete between 1200 and 1300 clinical contact hours over the course of the program to ensure clinical competence. The clinical credit hours have been equally assigned to the five program clinical courses. Over the life of the program, this equates to approximately 80 contact hours per one college credit hour. This course is a portion of the five steps to clinical competency and must be completed with an 86% or better. (S)

**RAD210 Clinical Practicum II**
**Prerequisites:** Acceptance to Radiologic Technology Program, Reading Proficiency, RAD115 Radiographic Positioning I, RAD125 Radiographic Positioning II, RAD135 Radiographic Positioning III, RAD145 Radiographic Positioning IV
This clinical practicum is the second course in a series of five clinical education courses designed for development, application, analysis, integration, synthesis and evaluation of clinical competencies that have been taught previously in positioning courses. Supervised clinical rotations will be performed in basic and advanced areas of radiologic technology at assigned clinical sites. Radiology students will complete between 1200 and 1300 clinical contact hours over the course of the program to ensure clinical competence. The clinical credit hours have been equally assigned to the five program clinical courses. Over the life of the program, this equates to approximately 80 contact hours per one college credit hour. This course is a portion of the five steps to clinical competency and must be completed with an 86% or better. (Su)

**RAD220 Clinical Practicum III**
**Prerequisites:** Acceptance to Radiologic Technology Program, Reading Proficiency, RAD115 Radiographic Positioning I, RAD125 Radiographic Positioning II, RAD135 Radiographic Positioning III, RAD145 Radiographic Positioning IV
This clinical practicum is the third course in a series of five clinical education courses designed for development, application, analysis, integration, synthesis and evaluation of clinical competencies that have been taught previously in positioning courses. Supervised clinical rotations will be performed in basic and advanced areas of radiologic technology at assigned clinical sites. Radiology students will complete between 1200 and 1300 clinical contact hours over the course of the program to ensure clinical competence. The clinical credit hours have been equally assigned to the five program clinical courses. Over the life of the program, this equates to approximately 80 contact hours per one college credit hour. This course is a portion of the five steps to clinical competency and must be completed with an 86% or better. (Su)
RAD230 Radiographic Positioning IV
Prerequisites: Admission to Program, Reading Proficiency
This course consists of lecture and practicum in advanced imaging techniques and approaches for imaging adult, pediatric and geriatric trauma/emergency radiography, routine pediatric studies, angiographic and interventional procedures, digital imaging and computer tomography as well as mobile and operating room equipment and procedures using relevant structural relationships, anatomical landmarks in radiographic positioning, types and sizes of image receptors used for each study, routine and non-routine positioning and techniques of the region, body planes and lines, medical terms, definitions, abbreviations and symbols. Radiographic anatomy, radiation protection and patient care skills are reinforced. The student will evaluate radiographic image quality in simulated clinical conditions. This course is a portion of the five steps to clinical competency and must be completed with an 86% or better in both the lecture and practicum sections. (S)

RAD230 Clinical Practicum IV
Prerequisites: Acceptance to Radiologic Technology Program, Reading Proficiency, RAD115 Radiographic Positioning I, RAD125 Radiographic Positioning II, RAD135 Radiographic Positioning III, RAD145 Radiographic Positioning IV
This clinical practicum is the fourth course in a series of five clinical education courses designed for development, application, analysis, integration, synthesis and evaluation of clinical competencies that have been taught previously in positioning courses. Supervised clinical rotations will be performed in basic and advanced areas of radiologic technology at assigned clinical sites. Radiology students will complete between 1200 and 1300 clinical contact hours over the course of the program to ensure clinical competence. The clinical credit hours have been equally assigned to the five program clinical courses. Over the life of the program, this equates to approximately 80 contact hours per one college credit hour. This course is a portion of the five steps to clinical competency and must be completed with an 86% or better. (F)

RAD240 Clinical Practicum V
Prerequisites: Acceptance to Radiologic Technology Program, Reading Proficiency, RAD115 Radiographic Positioning I, RAD125 Radiographic Positioning II, RAD135 Radiographic Positioning III, RAD145 Radiographic Positioning IV
This clinical practicum is the fourth course in a series of five clinical education courses designed for development, application, analysis, integration, synthesis and evaluation of clinical competencies that have been taught previously in positioning courses. Supervised clinical rotations will be performed in basic and advanced areas of radiologic technology at assigned clinical sites. Radiology students will complete between 1200 and 1300 clinical contact hours over the course of the program to ensure clinical competence. The clinical credit hours have been equally assigned to the five program clinical courses. Over the life of the program, this equates to approximately 80 contact hours per one college credit hour. This course is a portion of the five steps to clinical competency and must be completed with an 86% or better. (S)
Jefferson College Graduation Requirements

To qualify for a degree students must:
1. Complete 85-95 semester hours of college credit; 24 hours must be completed at Jefferson College.
2. The completion of the curriculum required for the specific degree and general education requirements for the degree.
3. Successful completion of the First Year Experience requirement.
4. Successful demonstration of computer literacy with a grade of "C" or better.
5. A cumulative grade point average of 2.00 ("C") or better is required for the A.A., A.S., and A.A.S degrees. A grade point average of 2.50 or better in Radiologic Technology coursework is required for the A.A.S Radiologic Technology degree.
6. Certification of a candidate for a degree by the Director of Admissions and Student Records.
7. Completion of the exit exam assessment as required by the College.

Program Graduation Requirements

1. Demonstrate consistent safety and competency in each clinical area.
2. Successful completion of each theory and each clinical area.
3. Satisfactory attendance and punctuality record.
4. Complete application to take the American Registry of Radiologic Technology Examination.
5. Have exit conference with Program Director and/or other designated Jefferson College official.
6. Meet all graduation requirements of Jefferson College.

Program Counseling Scheduling

1. Individual conferences shall be scheduled to assure privacy and adequate time needed.
2. Examples of conference needs are: clarification of assistance with subject matter and/or assignments, extenuating circumstances, semester review, etc.
3. Student should sign all counseling documentation prior to it being placed in his/her file.

Academic Guidance and Student Counseling

Counseling and guidance is available to Radiologic Technology students. Students have access to counseling system maintained by Jefferson College, such as access to: financial aid counselor, job placement counselor, and academic help services. Student guidance shall be available to include assisting students in understanding and observing program policies and practices and provide counseling or referral for personal problems that may interfere with progress of the program. Students may request additional assistance with coursework at any time and should do so at the earliest sign of difficulties.

The Radiologic Technology program will maintain counseling by:
- "Open Door" policy by Clinical Coordinator and Program Director or by scheduling appointments with faculty during their scheduled office hours, as posted.
- One interview between Program Director and Student (written documentation kept in student file)
- Disciplinary counseling in accordance with program procedures and policies, when needed (written documentation kept in student files)
- Referral of student to the Division Chair of Health Occupation Programs or the Dean of Career & Technical Education, when deemed necessary by the Program Director (written documentation kept in student files).

Withdrawal from Program

A student is officially a member of each class in which he or she has enrolled. To withdraw or drop a course, a student must complete the withdrawal process. Any student who does not attend classes and who has not officially withdrawn from a class will receive a failing grade at the end of the semester. Please refer to the "Withdrawing, Dropping, and Adding Courses" in the Jefferson College Student Handbook for further information.
Refund of Tuition, Fees, and Laboratory Fees

A student is officially a member of each course in which he/she has enrolled. To add, drop, or withdraw from a course, a student must complete and submit the appropriate paperwork at one to the Jefferson College locations by the designated date or complete the add, drop, or withdrawal process online. Deadlines for adding, dropping, or withdrawing from a course vary based on the length of the course and are available on the Jefferson College website. Students who have not paid, or made arrangements to pay tuition, may be subject to drop for non-payment. For more information refer to the “Withdrawing, Dropping and Adding Courses”, “Financial Aid Guidelines” and “US Department of Education Return of Title IV Funds Policy” in the Jefferson College Student Handbook.

Guidelines for Granting Drop & Readmission to the Radiologic Technology Program

A drop - readmission will only be considered for a student with unusual circumstances, requiring him/her to withdraw from school.

The student must:
- Have completed a minimum of one semester of the program
- Have an overall grade average of B or above
- Request leave of absence prior to the first day of the semester following withdrawal from the program.
- Verify facts pertaining to request for leave and present them to the Program Director.

Readmission is conditional and student may be readmitted only if readmission does not cause class to exceed limit set forth by JRCERT. In the event that readmission of a student would cause the school to exceed the limits set forth for any class by one student, the student may be admitted provided that the Director of the Radiologic Program feels that the student will not overload the faculty or facilities. Absence shall be for no longer than one year. Any new textbooks must be purchased. Student must abide by rules and regulations as set forth in current student handbook.

Holidays

The Radiologic Technology program of Jefferson College observes holidays and breaks in accordance with college policies. No student shall be scheduled or allowed in clinical rotations on nationally observed holidays.

Use of Phones

Personal phone calls are not to be made or received by students while in class or clinical. Cell phones may be used during breaks. Only emergency calls will be accepted by the program faculty and staff or clinical reception areas. CELL PHONES ARE TO BE TURNED “OFF” DURING ALL CLASSES AND CLINICAL ROTATIONS. This includes texting. Points may be deducted from grade and/or disciplinary action may be taken if a personal phone rings during class or clinical time.

Classroom Attire

Students are required to dress appropriately for class. Clothing which is overly provocative or which other students may find offensive is not conducive to an appropriate learning environment and should not be worn to class. Students should be prepared for classroom temperature fluctuations by dressing in layers or bringing a sweater.

Children in the Classroom

Students are not permitted to bring children to class, nor should children be left unattended in the halls, offices, Library, Student Center, or outside on campus. The college reserves the right to protect the safety and welfare of unattended children. If students leave their children unattended, the college will institute appropriate action.
In an emergency situation, a student may contact the instructor by phone or in person prior to class to request permission to bring his/her child. It is the instructor's option to grant or deny permission. An on-campus day care program is available; however, this is not a drop-in service.

**Classroom Attendance**

Students who attend class regularly and punctually do themselves a service and show instructors and other class members a courtesy. Students are not entitled to a certain number of absences. Information presented in the classroom is critical in the learning process. An instructor may consider excessive tardiness as absences in determining if a student may remain in the class. If a student misses more than 15 percent of the total time (including lecture and laboratory) that the class meets in a semester, the student may be prohibited from attending the class by the instructor. In such cases, the student must officially withdraw from the course, by the designated withdrawal date, in order to reduce the possibility of receiving an “F” for the course. At the beginning of the semester, the instructor will notify his or her students of the attendance and punctuality requirements for the class. Failure to attend class does not constitute an official withdrawal.

When absent, the student is expected to account for the absence to the instructor and be responsible for work missed. Students should notify the instructor as early as possible of each absence. Instructors may penalize students for absences. Students in violation of class attendance policy and wish to remain in the Radiologic Technology program must appear before the Review Board. If the student fails to appear before this board on the scheduled time, automatic dismissal will result. Students must request appearance before the Review Board within 10 working days of their date of last attendance.

**Inclement Weather**

It is the policy of the Radiologic Technology program to ensure the safety of its students, adequate clinical supervision, and appropriate professionalism. Inclement weather is any weather that has the probability of interfering with the student’s ability to arrive safely at class or clinicals. In the event of inclement weather, the student should make the determination of the prudence of travel. Students will only be excused from class for inclement weather when the campus is closed. Students may not be reassigned to alternate clinical sites in cases of inclement weather, as this may exceed the requirements for appropriate clinical supervision. Students wishing to delay arrival at the clinical site until road conditions improve should contact both the clinical site and the clinical coordinator prior to the time the student is scheduled to arrive. Students who delay or do not attend clinicals at all will have the time deducted from their allotted clinical absenteeism time. In accordance with the programs policy on clinical attendance, the student is expected to notify both the clinical site and the clinical coordinator of the absence prior to the start of the clinical day.

**Make Up Policy**

**Assignments:** The first day a student returns to school, he/she is responsible for contacting each instructor regarding material to be made up. Failure to do so will result in a zero for missed assignments. Twenty percent (20%) will be deducted from all assignments that are turned in late. All work must be turned in within 1 week of due date or as arranged with instructor. Assignments turned in more than 1 week after the due date will receive a zero.

**Quizzes:** Missed quizzes may be recorded as zeros and may have to be taken, if applicable, on the next class day of attendance to complete course requirements.

**Exams:** If an exam is not taken at the scheduled time and arrangements for a make-up exam have not been made, the grade for that exam will be zero. **No make-up exam will be considered unless the student's instructor is personally notified prior to the absence.** If a student arranges to take the exam at other than the scheduled time, 5% will be deducted from the grade on that exam. Make-up exams are scheduled at the convenience of the instructor.
Clinical Education

Students are taught the basic radiography principles and procedures in the didactic and laboratory courses in one semester and practicum experience is conducted in following semesters. The program has five clinical practicum courses within the curriculum. During each course, students may perform required exam competencies under observation, direct supervision and/or indirect supervision. Students shall rotate through an assigned clinical area for duration of one semester.

Clinical Education plays a very significant role in a student’s development as a professional Radiologic Technologist. Attendance in clinical rotations is not optional. This means that students will need to plan carefully to avoid clinical absences. A student’s clinical rotation will occur at a wide variety of locations and may include some evening and weekend rotations. Unlike traditional college courses, clinical rotations will usually consist of 8-hour shifts.

There may be times when a student will miss a clinical rotation because of illness, but if a student misses too much time the student may be required to make that time up or repeat the course. If make-up time is allowed; it will be at the convenience and desired location of the Clinical Coordinator.

Specific Clinical Regulations

Specific regulations regarding uniforms, how clinical grades are calculated, clinical assignments, etc. are not covered in this handbook. Students will receive the specific clinical regulations with their clinical competency books prior to the start of Clinical Practicum I.

Clinical Education Sites

<table>
<thead>
<tr>
<th>Miles</th>
<th>City</th>
<th>Time to drive</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>Crystal City</td>
<td>20 minutes</td>
</tr>
<tr>
<td>34</td>
<td>St Louis</td>
<td>39 minutes</td>
</tr>
<tr>
<td>35</td>
<td>St. Louis</td>
<td>40 minutes</td>
</tr>
<tr>
<td>36</td>
<td>St. Louis</td>
<td>43 minutes</td>
</tr>
<tr>
<td>43</td>
<td>Bridgeton</td>
<td>51 minutes</td>
</tr>
<tr>
<td>46</td>
<td>O’Fallon</td>
<td>56 minutes</td>
</tr>
<tr>
<td>49</td>
<td>St. Peters</td>
<td>57 minutes</td>
</tr>
<tr>
<td>60</td>
<td>Lake St. Louis</td>
<td>1 hour 9 minutes</td>
</tr>
<tr>
<td>72</td>
<td>Troy</td>
<td>1 hour 20 minutes</td>
</tr>
<tr>
<td>91</td>
<td>Cape Girardeau</td>
<td>1 hour 30 minutes</td>
</tr>
<tr>
<td>110</td>
<td>Louisiana</td>
<td>2 hours</td>
</tr>
</tbody>
</table>

Clinical education rotations will occur at the following sites. Other sites may be added to give additional depth to a student’s education.

Due to the small size of the facility, or the presence of students from other Radiologic Technology programs, there will be only one student at a time at many of these facilities. The technologists and staff at the facilities will make every effort to welcome a student and make that student feel comfortable. However, students should realize that congeniality is a two-way street. The friendlier and more outgoing a student is the warmer reception the student will receive in return.

Patient Records and Confidentiality

During clinical rotations - students are permitted to obtain patient records from the Medical Records Department of the hospital for the purpose of preparing a case study only. Obtaining a medical record for any other purpose is strictly prohibited and will be cause for disciplinary action and/or immediate dismissal. (i.e., obtaining your own record during school time or while in school uniform)
Information concerning any patient and his/her illness is private. It is the student’s obligation, as well as every member of the hospital, to keep this information **strictly confidential.** Do not discuss patient information with friends, relatives, classmates or fellow employees. The student is required to abide by the Patient Privacy rules and regulations of both the clinical affiliation site and Jefferson College’s Radiologic Technology Program.

A student may discuss a patient’s medical condition (without disclosing a patient’s name) with other RT’s, physicians, program instructors and RT students **provided** they are directly concerned with the care of the patient or if it is in a supervised learning situation. This does **not authorize** the student to make moral judgments concerning the patient’s personal life. This would be an invasion of privacy.

When writing a case study about an assigned patient, use only initials of the patient, physician, or others whom care for the patient. A student may use fictitious names in a case study if the use of initials is not chosen.

Students are required to agree to abide by patient confidentiality regulations prior to assignment at a clinical site.

**Five Steps to Clinical Competency**

The following steps must be completed, in order, for each competency exam. After competency is achieved, the student may perform the procedure under indirect supervision. Regardless of the level of competency achieved, students must perform all repeat radiographs in the presence of a registered technologist.

**Step 1:** The examination is introduced in Radiographic Positioning class. The student will participate in guided discussion, demonstration, reading assignments, radiographic anatomy review and positioning practice.

**Step 2:** In the classroom the student must score 86% or above on a written examination covering the assigned objectives. The scores for these examinations are applied to the Radiographic Positioning class grade. If a student fails the Step 2 exam (below 86%), it is the student’s responsibility to contact the Positioning course instructor for another testing date. Re-testing will be at the instructor’s convenience and may be outside of regular class hours.

**Step 3:** In the laboratory, under the direct supervision of the Positioning instructor, the student will correctly position the examination according to a Lab Competency Test. The student must score 86% or above on the Lab Competency Test for satisfactory completion of Step 3. The scores for these examinations are applied to the Radiographic Positioning class grade. If a student fails the Step 3 Lab Competency Test (below 86%), it is the student’s responsibility to contact the Positioning instructor for another testing date. Re-testing will be at the instructor’s convenience and may be outside of regular class hours.

**Step 4:** In the clinical area, under direct supervision of a **registered technologist**, the student will correctly perform the examination on a patient. Three Step 4 competencies are required to progress to Step 5 on all mandatory examinations. Step 4 competency requires active performance of the exam, but may utilize assistance from the technologist. The student must perform at least two of these exams and may not record more than one observation exam during the “experience recorded” portion of the competency. The student will ask the supervising technologist to evaluate their exam performance prior to beginning the exam.

**Step 5:** Clinical competency evaluation. Under the direct supervision of the Clinical Instructor, registered technologist, or Jefferson College faculty, the student will correctly perform the examination according to the clinical competency evaluation. A score of 86% or better is necessary to achieve clinical competency. Competency scores for these exams apply to the Clinical Education grade. Step 5 competency requires independent performance of the exam.

**Professionalism in the Clinical Area**

As a Radiologic Technology student in the clinical sites you will be involved with physicians, nurses, patients and their families. This will require that a student conducts themselves in an attitude of quiet maturity. The health care facility is a therapeutic and learning environment where rowdiness, inappropriate language, practical jokes and other misbehavior will be cause for disciplinary action or immediate dismissal.
While working in the health care facility, the student will observe all policies of conduct for employees.

The Clinical Instructor is responsible for student activities and behavior while in the facility. When in doubt on any matter, a student is to contact him/her for direction.

**Personal Appearance**

As a radiologic technology student you represent Jefferson College, classmates, and radiology as a profession; to the public, patients and their visitors. A student’s conduct, dress, and appearance are important. Cleanliness and neatness are necessary because of the nature of our work. The following requirements have been established:

- Good daily personal hygiene in both classroom/clinical - includes daily bath, use of effective deodorant and good oral hygiene. (Persistent halitosis and/or body odor, for whatever reason will be cause for dismissal).
- Cologne, perfume or after-shave lotion should be avoided.
- Hair must be clean, simply styled, well groomed and off the collar while in uniform. If hair is long enough to fall into the student’s eyes, the front must be secured away from the face. If the back is long enough to fall past the shoulders all of the hair must secured away from the face. Large decorative barrettes, large colored bows, and ribbons are not allowed while at clinical sites.
- Makeup must be conservative; nail polish may be worn, if colorless or pastel shades and in good repair. Artificial nail are not allowed.
- The wearing of jewelry is limited to one post style earring per ear, one ring and a watch. The size and shape of any item must be considered not to be a danger to patient or student.
- While representing the Jefferson College program of Radiologic Technology at seminars, the Radiology Program Director will set the attire expectations dependent upon the event.

In all areas of personal appearance the student is to judge his/her own dress. If there is a problem related to dress a faculty or the clinical instructors will advise the student of any problem with the personal appearance as it relates to professionalism. If the issue cannot be resolved by informal discussion, the issue will be addressed formally by the Program Director.

**Physical Adornment**

While the Radiologic Technology faculty recognizes the student’s right to express themselves in their jewelry and other forms of body art. Such expression of individuality is inappropriate in the clinical setting, where the patient population is generally of an older generation, which may find such things offensive. The following are considered inappropriate in the clinical setting:

Visible tattoos
Hair of an unnatural color
Piercing at any location other than the ear lobe (including the tongue)
Jewelry limited to 1 post earring per ear, a watch and one ring
Unnatural make-up (example: black lipstick)
Perfume, cologne or heavily scented lotions
Artificial nails
Gum or candy in the mouth while performing patient care/exams

If hair is long enough to fall into the student’s eyes, the front must be secured away from the face. If the back is long enough to fall past the shoulders all of the hair must secured away from the face. All visible tattoos must be covered during the clinical rotation. Pierced jewelry other than a single stud earring per ear is to be removed prior to entering the clinical site. Perfumes and colognes can cause allergic reactions and/or nausea in the patients therefore fragrances should be avoided. Artificial nails may allow for trapping of microbials when entering patient contact situations.
Clinical Preparedness

The students are expected to be in uniform every day and to bring all necessary materials with them, when they enter the clinical setting. The students are encouraged to bring study material to the clinical site to occupy themselves during slow periods throughout the day. The student is to speak with the Clinical Instructor prior to working on study material, as there may be other items the Clinical Instructor wishes the student to complete or additional opportunities for the student to learn at other areas of the clinic.

Clinical Participation

Clinical Participation will follow this format:
1. The student begins his/her clinical participation by first assisting a practicing Radiologic Technologist in the execution of duties.

2. This participation moves from a passive mode of observation to a more active mode of assisting the technologist in radiographic examinations. The rate of student progress is dependent upon the ability of the student to comprehend and perform the various tasks assigned to him/her.

3. As the student gains experience in various procedure(s) he/she gradually moves into an independent clinical performance stage. At this point the student is actually performing the procedure under the indirect supervision of an R.T. The student is allowed to repeat an examination only under the direct supervision of an R.T.

Clinical Education Supervision

Until a student achieves and documents clinical competency in any given procedure, all clinical assignments shall be carried out under the direct supervision of a registered radiographer. Upon completion of the Five Steps to Clinical Competency students may perform radiographic examinations with indirect supervision. Regardless of the level of competency achieved, students must perform all repeat radiographs in the presence of a registered radiographer.

In providing direct supervision, the registered radiographer shall:
   - Review the request for the examination in relation to the student’s achievement.
   - Evaluate the condition of the patient in relation to the student’s knowledge.
   - Be present in the room during the examination.
   - Review and approve the radiographs before they are submitted to the radiologist.

In providing indirect supervision, the registered radiographer shall:
   - Be present in a room adjacent to the room where the procedure is being performed.
   - Review and approve the radiographs before they are submitted to the radiologist.
   - Be present in the room for all repeat radiographs.

After Hours in Clinics

Due to insurance reasons, students are not allowed to be in the Radiology Departments of Hospitals unless for specific purpose such as: Clinical hours as student, paid employee of facility or visiting a patient.
I ________________________________, have received and read the student handbook.

The Director of the Program of Radiologic Technology and/or Faculty has discussed, and answered questions about the handbook. By my signature below, I indicate that I have read and understand the contents and will abide by the rules and regulations. This acknowledgement will be placed in my personal file.

Student: ________________________________  
Printed Name

Student: ________________________________  
Signature

Date: ____________________________________

Acting Program Director: ____________________  
Janet E. Akers B.S., R.T. (R) (M)

Date: ____________________________________