



Technical College of the Lowcountry
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RAD 236
Radiography Seminar II
Summer 2019

Course Description

RAD 236 Radiography Seminar II

Lec. 1 Lab. 3 Cr. 2

Prerequisites: RAD 205, RAD 210, RAD 256

Corequisites: RAD 276

Course Focus

This course will include, but not limited to, a general review of program courses and assessment exercises designed to assist the student in preparation for the national certification examination. This course includes routine and advanced radiographic procedures in the clinical environment.

Text and References

LANGE Q&A Radiography Examination 11th D.A. Saia

***The student should expect to utilize all textbooks that have been required throughout the program, as well as RADReview Easy Online Review Course.*

Course Outcomes

Upon successful completion of the course, a student will be able to: gain greater understanding of the information required to be successful on the ARRT examination. ARRT content specifications will be followed throughout this course, identified as:

- Radiation Protection and Radiobiology
- Equipment Operation and Image Acquisition
- Patient Care and Interactions
- Radiographic Procedures

Course Goals

The following list of course goals will be addressed in the course. These goals are directly related to the performance objectives. (*designates a CRUCIAL goal)

- *1. recall detection of radiation
- *2. recall patient protection
- *3. recall personnel protection
4. recapture fundamentals of x-ray circuits
5. recapture knowledge gained regarding x-ray tubes
6. recapture knowledge learned regarding x-ray interactions
7. remember facts concerning radiation effects
8. remember facts regarding radiation biology
9. remember fundamental of applicable diseases
10. remember radiation regulations
11. associate fundamentals of imaging accessories
- *12. associate prime factors
13. associate procedural differences
14. explain linking of RIS and HIS
15. review facts concerning direct and indirect radiography
- *16. review fundamentals of computerized imaging
17. review fundamentals of digital radiography
18. address film-screen imaging
19. summarize basic medical terminology
20. summarize facts concerning aseptic and isolation technique
- *21. summarize facts concerning patient care
22. extract facts pertaining to radiation physics
23. extract fundamentals of magnetic properties
24. extract fundamentals of electricity
25. recite facts concerning atoms
26. recite facts concerning fluoroscopy
27. recite facts regarding digital imaging
28. address fundamental concerning radiographic procedures
29. address fundamental of radiographic image production
30. address imaging factors

Course Schedule

Building 4, Room 210	Lecture:	Tuesdays – 9:00 am – 10:30 am
	Labs Sections 91 and 92:	Tuesdays - 10:45 am – 1:00 pm
		Thursdays – 9:00 am – 11:15 am

Each student is enrolled in only one course lab section.

***Lectures will be held in Building #4 Room 210 classroom unless students are notified of change.*

***Lab Section 91 & 92 will be held in Building #4 Room 124 or 125 unless students are notified of change.*

Course Evaluation

RAD Review Exercises & Quizzes (15)	15%
Mock Exams (1-5)	40%
Interview & Resume	20%
<u>Final Cumulative Exam</u>	<u>25%</u>
Total	100%

Classes are designed to employ a variety of teaching techniques. In order to maximize learning, required readings and Web enhanced sections should be completed prior to class. If a student is falling behind in clinical performance and/or academic achievement, it is imperative to seek immediate assistance from the instructor. Should a student have a question regarding his or her progress in this course or a grade that is received, the student should make an appointment with the instructor to discuss their progress.

Various methods of instruction will be used during this course. Included in these methods are outside reading assignments, lab demonstrations, didactic lecture, and power point presentations. Examination questions may be included from these methods.

- ***It is a program requirement for students to meet with the instructor if an exam grade falls below a score of 75%. It is the student's responsibility to make an appointment immediately with the course instructor concerning scores on examinations.***

Attendance to all classes plays a vital role in satisfactory completion to this course; therefore, students are expected to attend all classes. Please refer to the Attendance Policy listed in each course syllabus and in the student handbook. If a student misses lecture and/or lab, it is the student's responsibility to obtain materials and/or assignments from the course instructor. Students are encouraged to attend class and/or lab on time. The instructor may restrict entrance into class after the scheduled starting time; however, the student may enter during the first break.

Student Contributions

Students will complete any assignments and turn them in to the instructor prior to the start of each class session. Classes are designed to employ a variety of teaching techniques. In order to maximize learning, required readings should be completed *prior* to class. If a student is falling behind in clinical performance and/ or academic achievement, it is the student's responsibility to seek immediate assistance from the instructor.

A syllabus acknowledgment is included attached below (Page 11). The student is responsible for returning the acknowledgment form (located on Page 11) to the course instructor to verify beginning attendance and acknowledgment of course syllabus information.

- **Students enrolled in classes taught online or have an online component are expected to attend on campus activities, such as testing, labs, and/or presentations as determined by program faculty and is given on the course outline.**
- **During examinations and quizzes, students must remove watches and place all belongings including electronic devices in the back of the classroom. Students must also remove head gear (hats) while testing takes place.**
- **During on-campus examinations, only answers transferred and completed on Scantron sheets will be graded electronically to count towards the test score.**

Grading Policy

Grading scale	
90% - 100% A	W withdraw
82% - 89% B	WP withdraw with passing grade
75% - 81% C	WF withdraw with failing grade
70% - 74% D	I Incomplete
Below 70% F	

Grading Methodology. The final grade must be 75.000 or more to pass the course successfully and progress in the program. Students absent during didactic coursework must notify the instructor via email and telephone before the absence occurs. Students absent from an examination or presentation will receive a "0" grade for the examination unless other arrangements are made with the individual instructor *prior to* the examination or presentation date given. It is the responsibility of the student to contact the

appropriate instructor to arrange via email to arrange an appointment to make up the examination. If the instructor is unavailable, arrangements may be completed by telephone. A message should be left on the instructor's voice mail. The make-up examination will be completed at the Testing Center by the first available appointment. It is the instructor's discretion of time allotted for make-up examinations on an individual basis. Messages sent by other students are unacceptable and will not be involved on the student's behalf. The student is responsible for notifying the instructor, via email, for the reason of the absence. If a student arrives late for an examination without any prior notice, additional time *will not be given* for the student arriving late to complete the examination in the scheduled time frame. Grades are distributed to students and may be posted Blackboard platform within one week of administration of tests and examinations. Students are encouraged to make appointments with course instructor for evaluation of individual student performance and tutoring resources.

Recording Devices / Cell Phones

Students are not allowed to use recording devices during any lecture, lab, or clinical courses. Additionally, students must have cell phones **turned off or on silence** during lectures, reviews, and lab times. If for any reason a cell phone rings or vibrates during lecture or lab, the student will receive a warning for the first occurrence. After the **first** warning, students will be placed on a learning contract in reference to not abiding classroom policy. ***Violation of the rules and or requirements listed above may result in possible dismissal from the Radiologic Sciences program.***

ADA STATEMENT

The Technical College of the Lowcountry provides access, equal opportunity and reasonable accommodation in its services, programs, activities, education and employment for individuals with disabilities. To request disability accommodation, contact the counselor for students with disabilities at (843) 525-8228 during the first ten business days of the academic term.

ATTENDANCE

The College's statement of policy indicates that students must attend **ninety percent** of total class hours or they will be in violation of the attendance policy.

1. Students not physically attending class during the first ten calendar days from the start of the semester must be dropped from the class for NOT ATTENDING.
2. ***Students taking an online/internet class must sign in and communicate with the instructor within the first ten calendar days from the start of the semester to indicate attendance in the class. Students taking an online class will have an assignment due within the first ten days to count as attendance in the course.*** Students not attending class during the first ten calendar days from the start of the semester **must be dropped** from the class for NOT ATTENDING. The instructor will drop the student from the course if the initial assignment is not completed. Instructors will withdraw students from class when 90% attendance is not maintained. Attendance in an online course is defined by regular course access and by completion of assignments as required by the instructor. Each student will be expected to access the web class at least once a week and complete weekly assignments on time. Additional access is encouraged and may be necessary for successful completion of classes.

3. Reinstatement requires the signature of the division dean.
 - a. In the event it becomes necessary for a student to withdraw from the course **OR** if a student stops attending class, **it is the student's responsibility to initiate and complete the necessary paperwork.** Withdrawing from class may have consequences associated with financial aid and time to completion. Students are strongly encouraged to consult with Financial Aid prior to withdrawing from any class, particularly if the student is currently on a warning or probation status.
 - b. When a student exceeds the allowed absences, the student is in violation of the attendance policy. The instructor **MUST** withdrawal the student with a grade of "W", "WP", or "WF" depending on the date the student exceeded the allowed absences and the student's progress up to the last date of attendance
or
 - c. Under extenuating circumstances and at the discretion of the faculty member teaching the class, allow the student to continue in the class and make-up the work. This exception must be documented at the time the allowed absences are exceeded.
 - d. Absences are counted from the first day of class. There are no "excused" absences. All absences are counted, regardless of the reason for the absence.
4. A student must take the final exam or be excused from the final exam in order to earn a non-withdrawal grade.
5. Students are expected to be in class *on time*. Arrival to class after the scheduled start time or leaving class prior to dismissal counts as a tardy. Three tardies and/or early departures are considered as one absence unless stated otherwise.
6. It is the student's responsibility to sign the roll/verify attendance with instructor upon entering the classroom. Failure to sign the roll/verify attendance results in a recorded absence. In the event of tardiness, it is the student's responsibility to ensure that attendance is marked. **The student is responsible for all course textbook information along with additional information provided by course instructor and announcements presented or posted, whether present or absent. Students will sign an attendance form when arriving to class.** If a student arrives after ten minutes of the start of lecture or lab, a tardy will be received. If a student leaves early from lecture or lab, a tardy will be received.

A copy of TCL's STATEMENT OF POLICY NUMBER: 3-1-307 CLASS ATTENDANCE (WITHDRAWAL) is on file in the Division Office and in the Learning Resources Center.

ACADEMIC MISCONDUCT

There is no tolerance at TCL for academic dishonesty and misconduct. The College expects all students to conduct themselves with dignity and to maintain high standards of responsible citizenship.

It is the student's responsibility to address any questions regarding what might constitute academic misconduct to the course instructor for further clarification.

The College adheres to the Student Code for the South Carolina Technical College System. Copies of the Student Code and Grievance Procedure are provided in the *TCL Student Handbook*, the Division Office, and the Learning Resources Center.

Health care professionals hold the public trust. Academic misconduct by health science students calls that trust into question and academic integrity is expected.

It is a fundamental requirement that any work presented by students will be their own. Examples of academic misconduct include (but are not limited to):

1. copying the work of another student or allowing another student to copy working papers, printed output, electronic files, quizzes, tests, or assignments.
2. completing the work of another student or allowing another student to complete or contribute to working papers, printed output, electronic files, quizzes, tests, or assignments.
3. viewing another student's computer screen during a quiz or examinations.
4. talking or communicating with another student during a test.
5. violating procedures prescribed by the instructor to protect the integrity of a quiz, test, or assignment.
6. plagiarism in any form, including, but not limited to: copying/pasting from a website, textbook, previously submitted student work, or any instructor-prepared class material; obvious violation of any copyright-protected materials.
7. knowingly aiding a person involved in academic misconduct.
8. providing false information to staff and/or faculty.
9. entering an office unaccompanied by faculty or staff.
10. misuse of electronic devices.

Course work is available through our Blackboard Platform. TCL utilizes the online test proctoring service **Honorlock**. Each student must meet the requirements for Honorlock to complete any online clinical assignments and/or course reviews.

- **Honorlock Online Proctoring and Technology Requirements**
TCL uses an online test proctoring service called Honorlock to monitor some online tests as an alternative to in-person proctoring. Your instructor may elect to have some of your tests proctored using Honorlock. If so, you will need to make sure that you have access to the necessary equipment in order to take your online-proctored tests:
 - A computer with access to a high-speed Internet connection
 - A webcam and microphone. A functioning webcam and microphone are required to complete proctored online tests.
 - Microsoft Office. Microsoft Office can be downloaded for free by accessing the Office 365 link in your TCL email account.
 - The ability to install the Honorlock extension on Google Chrome.

HAZARDOUS WEATHER

In case weather conditions are so severe that operation of the College may clearly pose a hardship on students and staff traveling to the College, notification of closing will be made through the following radio and television stations: WYKZ 98.7, WGCO 98.3, WGZO 103.1, WFXH 106.1, WWVV 106.9, WLOW 107.9, WGZR 104.9, WFXH 1130 AM, WLVH 101.1, WSOK 1230 AM, WAEV 97.3, WTOC TV, WTGS TV, WJWJ TV, and WSAV TV. Students, faculty, and staff are highly encouraged to opt in to the Emergency Text Message Alert System. <https://tcl.regroup.com/signup>

SAFETY & SECURITY

Purpose

The Technical College of the Lowcountry is committed to providing a safe educational environment for students and employees. With this plan, the College attempts to anticipate a needed response in the event of an emergency that may endanger life or health of persons or inflict major damage to College property.

While the plan does not cover every conceivable situation, it is intended to supply the basic administrative guidelines necessary to cope with most campus emergencies.

The basic emergency procedures outlined below are to enhance the protection of lives and property through effective use of college and campus community resources. Whenever an emergency affecting the campus reaches proportions **that cannot be handled by routine measures**, the President or Vice President for Administrative Services may declare a state of emergency and these contingency guidelines may be implemented.

Since an emergency may be sudden and without warning, these procedures are designed to be flexible in order to accommodate contingencies of various types or magnitudes. The procedures described are applicable to almost any disaster.

Definition

An incident is any event, potential or actual, that may impact normal operations but has no immediate health or life threatening consideration or serious effect on the overall functional capacity of the College. An event of this nature should be reported to the Office of the Vice President for Administrative Services. Also notify the off-site campus administrator if applicable.

An emergency is any incident, potential or actual, which may endanger life or health or which affects an entire building or buildings, and will disrupt the overall operations of the College. Outside emergency services will probably be required, as well as major efforts from campus support services. Major policy considerations and decisions will usually be required from the college administration during times of crises. An emergency should be reported immediately by

directly using **911** if life or health/injury considerations exist and then to the Office of the President or Vice President for Administrative Services as quickly as possible. Also notify the off-site campus administrator if applicable.

A disaster is any event or occurrence that has taken place and has seriously impaired or halted the operations of the College. In some cases, mass personnel casualties and severe property damage may be sustained. A coordinated effort of all campus-wide resources is required to effectively control the situation. Outside emergency services will be essential. In all cases of disaster, an Emergency Control Center will be activated, and the appropriate support and operational plans will be executed. The disaster should be immediately reported, first by calling **911** and then to the Office of the President or Vice President for Administrative Services. Also notify the off-site campus administrator if applicable.

Types of Emergencies

- Hurricane
- Tornado
- Fire
- Biochemical or Radiation Spill
- Explosion/Bomb
- Downed Aircraft (crash which directly impacts campus operations)
- Utility Failures
- Violent or criminal behavior
- Psychological Crisis

Procedures

Active Shooter

Run/hide/fight <https://www.fbi.gov/about/partnerships/office-of-partner-engagement/active-shooter-resources>

Building Evacuation

1. Building evacuations occur when an alarm sounds and/or upon notification by Security or the Emergency Director.
2. When the building evacuation alarm is activated during an emergency, individuals should exit according to the building evacuation plan and alert others to do the same.
3. Once outside, individuals should proceed to a clear area that is at least 500 feet away from the affected building. Streets, fire lanes, hydrant areas and walkways should be kept clear for emergency vehicles and personnel.
4. Individuals should not return to an evacuated building unless told to do so by Security or the Emergency Director.
5. Individuals should assist persons with disabilities in exiting the building. Elevators are reserved for disabled persons

Campus Evacuation

1. A uniformed Security Guard, the Emergency Director, or an Emergency Resource Team member will announce evacuation of all or part of the campus grounds.
2. All persons (students and staff) are to immediately vacate the campus, or in the case of a partial evacuation relocate to another part of the campus grounds as directed.

Lockdown

1. Clear the halls
2. Report to the nearest classroom/office
3. Assist those needing special assistance
4. Ensure classroom/office doors are closed and locked
5. Turn off lights
6. Stay away from doors and windows (out of the line of sight)
7. BE QUIET and follow instructor's directions
8. Silence cell phones
9. Wait for the "All Clear" before leaving

EXPECTATION OF STUDENT TO FULFILL RADIOLOGIC TECHNOLOGY COURSE REQUIREMENTS:

Radiologic Technology students are expected to adhere to all policies outlined in the college catalog/handbook as well as the Radiologic Technology Student Handbook. Violations of any policies are unacceptable. Failure to adhere to college and radiologic technology program policies may constitute dismissal from the program.

INSTRUCTOR(S): Erika Johnson, BS, R.T. (R) (ARRT)
OFFICE LOCATION: Building 4 Room 203
TELEPHONE NUMBER: 843-525-8261
E-MAIL: ejohnson@tcl.edu



TECHNICAL COLLEGE
OF THE LOWCOUNTRY

Technical College of the Lowcountry
Radiologic Technology Program
Evidence of Understanding & Course Syllabus Acknowledgement

I, _____ have been given a copy of the Summer 2019 Syllabus for **RAD 236 – Radiography Seminar II**. I understand that it is my responsibility to read the course syllabus in its entirety and to seek clarification if unclear. I also understand that I will be held accountable for upholding all course policies outlined within the RAD 236 Course Syllabus, Rad Tech Student Handbook, Health Sciences Division Student Handbook, and the TCL College Catalog & Student Handbook. I understand that copies of these handbooks are found at <http://www.tcl.edu/programs-of-study/health-sciences/radiologic-technology> and <http://www.tcl.edu/catalog-course-search>

By signing below, I acknowledge that the course instructor has reviewed the course syllabus with me and that I have been given an opportunity to ask questions and seek clarification. I am also attesting to the fact that I have read the course syllabus for RAD 236 and agree to be held responsible for additional policies and procedures outlined in the student handbooks.

Student Name: _____ Date: _____
(Please Print)

Student Signature: _____ Date: _____

Course Instructor: _____ Date: _____