Course Description
RAD 165 Applied Radiography II
Lec. 0 Lab. 15 Cr. 5
This course includes the use of radiographic equipment and performance of radiographic procedures within the clinical environment of the hospital.
Prerequisites: BIO 211, ENG 101, RAD 110, RAD 136, RAD 155.
Co-requisites: RAD 230.

Course Focus
This course includes the use of radiographic equipment and performance of radiographic procedures within the clinical environment of the hospital.

Text and References


Technical College of the Lowcountry Radiologic Technology Student Handbook (current addition)
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. value dosimetry/film badge usage
2. value knowledge of protection from radiation
*3. verify possibility of pregnancy.
4. select appropriate image receptor
5. select immobilization devices
6. respect documentation needs
7. observe radiographic examinations
8. observe patient responses
9. monitor printer devices for ordered examinations
10. evaluate isolation techniques
*11. demonstrate central ray angulation
12. demonstrate effective aseptic technique
13. demonstrate examination modifications
14. demonstrate proper immobilization
*15. confirm patient identification
16. consult supervising radiographer when necessary
17. convey post procedural instructions
*18. maintain proper patient identification on images
19. position central ray perpendicular to image receptor
20. protect patient modesty
21. protect sterile field
22. supply alternative communication methods
23. treat patient respectively
24. verbalize x-ray exposure before energizing
25. address direct and indirect supervision
*26. adjust collimation accurately
*27. align proper central ray positioning
28. assist patient dressing
*29. assist performing patient transfers
*30. assist radiologist performing examination
*31. assist supervising technologists
32. calculate technical factors
33. check patient chart for physician orders
*34. engage in communication with radiologist
35. engage in communication with staff
36. illustrate fluoroscopy set-up
*37. establish patient rapport
38. manipulate floor shields
39. maneuver/manipulate radiographic equipment stationary/mobile
40. prepare contrast media
41. present additional markers as needed
42. produce diagnostic images
43. provide correct film markers
44. provide patient reassurance
45. provide position aids
46. provide projection modification
47. remove visitors from patient areas
48. secure patient belongings
49. seek assistance when necessary
50. set exposure factors
51. use correct SID
52. utilize equipment controls
53. utilize equipment locks
54. utilize proper collimation
55. define grid ratios
56. identify body habitus
57. identify central ray placement
58. identify correct anatomy
59. identify exposure area
60. identify grid types
61. identify patient condition(s)
62. identify various mobile equipment
63. know location of emergency supplies
64. appreciate legality of marker placement
65. appreciate reduced OID
66. differentiate projections and appropriate tube angulations
67. appreciate use of phototimer
68. distinguish c-arm controls
69. review clinical history
70. review patient preps with radiologist
71. review SOP specific to clinical site
72. apply technique for anatomy measured
73. collaborate with supervising radiographers
74. indicate identification marker placement right/left
75. determine appropriate protection devices
**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 done 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. For further grading details, please refer to the addendum pertaining to this course.

See course addendum for other considerations.

**Course Evaluation**

It is the student’s responsibility to complete the set number of competency exams that are assigned by the Clinical Coordinator at the beginning of each respective semester. The number of competencies will be determined, based on the student’s progression in technical factors that are acquired that particular semester or that are comprehensive from proceeding semesters. The goal is to have the students meet the total required (Mandatory & Elective) competencies that are set by the ARRT by the end of the program. The students must also enter their competency exams in their clinical notebooks with correct dates, and charting. The clinical notebook is then reviewed and graded by the Clinical Coordinator to look for accuracy and completion of the set number of competencies that were assigned at the beginning of the semester.

**GRADING METHODS**

*70* Points Clinical Procedures Assessment Exam  
9 Points Clinical Competency Tests Average  
9 Points Student Clinical Progress Evaluations Average  
12 Points Record/Maintenance/Notebook (*all or nothing*)

**Course Schedule**

Class Location: Clinical assignments at the affiliated clinical facilities as assigned by the respective instructor.  
Class Time: M - W - TH - F, 8am-3:30pm or 2-9:30pm

**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 not attending class during the first ten calendar days from the start of the semester must be dropped from the class for NOT ATTENDING.

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.
   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/clinic on time. Arrival to class/clinic after the scheduled start time or leaving class/clinic prior to dismissal or scheduled end time, counts as a tardy. Three tardies and/or early departures are considered as one absence unless stated otherwise. Any absence after the one allotted for each semester will cause the student a deduction of 5% per clinical absence occurring for the remainder of that semester. Also, any tardy or leaving early occurring after the two allotted will cause the student a 5% grade reduction per occurrence for the remainder of semester.

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 insure that attendance is marked. The student is responsible for all material/announcements presented, whether present or absent.
7. In the event that a student will miss a clinical day, or will be late, he/she must:

A. Call and leave a message with the Clinical Coordinator and the Division of Health Sciences Administrative Assistant, (at least 30 minutes prior to your start time). The student will leave the following information on the phone message: reason for your absence, the clinical site you are scheduled at, and the phone number where you can be reached. The Clinical Coordinator’s number is 843-470-8402. The Administrative Assistant’s number is 843-525-8267.

B. If these steps are not followed, then the student will fall under the “NO CALL/ NO SHOW” category and will be dismissed from the program.

8. Absences from the clinical area are strongly discouraged. The attendance policy applies to all clinical activities regardless of start-time. A “No Call/No Show” for any clinical rotation is unprofessional conduct, and the student will be withdrawn from the program.

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.

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, WLOH 101.1, WSOX 1230 AM, WAVE 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. www.tcl.edu/textalert.asp

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 Procedures 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.

**GRADING POLICY**

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<tr>
<th>Grading scale</th>
<th>W</th>
<th>WP</th>
<th>WF</th>
<th>I</th>
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<tbody>
<tr>
<td>90% - 100%</td>
<td>A</td>
<td>W withdrawn</td>
<td>WP withdraw with passing grade</td>
<td>WP withdraw with failing grade</td>
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<tr>
<td>82% - 89%</td>
<td>B</td>
<td></td>
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<tr>
<td>75% - 81%</td>
<td>C</td>
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<tr>
<td>70% - 74%</td>
<td>D</td>
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<tr>
<td>Below 70%</td>
<td>F</td>
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**Grading Methodology.** The final grade must be 75.000 or more in order to pass the course and progress in the program. Grades will not be rounded up. 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 day or on the examination or presentation day before the test/presentation is scheduled to be given. It is the responsibility of the student to contact the appropriate instructor to arrange to make up the examination. Arrangements may be completed by telephone. If the instructor is not available, a message should be left on the instructor’s voice mail AND with another member of the faculty or administrative assistant. The instructor will decide the time and method of make-up examinations on an individual basis. Messages sent by other students are unacceptable. The student is responsible for notifying the instructor for the reason of the absence. Grades are posted on Blackboard within one week of administration of tests and examinations.

**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.
CLASS INFORMATION

INSTRUCTOR(S): Glenn M. Levicki, MSRS, R.T. (R) (MR) (CT) (ARRT)

OFFICE LOCATION: Building 4 Room 125

TELEPHONE NUMBER: 843-470-8402

E-MAIL: glevicki@tcl.edu

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