Course Description
RAD 150 Clinical Applications
Lec. 0 Lab. 12 Cr. 4
This course includes practice of hands-on clinical skills in hospital/outpatient environments.
Co-requisites: BIO 210, MAT 110, RAD 101, RAD 130.

Course Focus
This course focuses on the development and practice of hands-on clinical skills in hospital & outpatient environments.

Text and References


Course Goals
Upon completion of this course, the student will have a greater application for the clinical environment and radiologic technology as a profession.
The following list of goals will be addressed in the course. (*designates a CRUCIAL goal)

1. factor appropriate technical to grid ratio
2. value use of dosimeter/ film badges
3. value use of radiation protection
4. monitor print devices for ordered exams
5. observe patient responses
6. observe various radiographic examinations
7. respect the need for proper documentation
8. respond to patients needs
9. respond to patients requests
10. select appropriate image receptor size
11. select immobilization devices
12. verify possibility of pregnancy*
13. appreciate legality of marker identification
14. appreciate reduced OID
15. appreciate use of phototimer
16. demonstrate proper exam modifications
17. demonstrate proper immobilization placement
18. demonstrate use of central ray degree angulation*
19. confirm identification of patient*
20. consult supervising technologists as necessary
21. maintain proper patient identification on image*
22. position patient properly
23. protect patient modesty
24. restock examination rooms
25. supply alternative communication methods
26. treat patient respectfully
27. address direct and indirect supervision
28. adjust collimation accurately*
29. align proper central ray positioning*
30. assist patient when dressing
31. assist radiologist performing examinations*
32. assist supervising technologists*
33. assist with patient transfers*
34. drape patient during exam
35. employ proper imaging cones
36. engage in communication with radiologist*
37. engage in effective communication with staff
38. manipulate floor shields when applicable*
39. measure anatomy being examined.
40. place dosimeter/film badges properly
41. present additional markers if needed
42. produce diagnostic images
43. provide needed projection modification
44. provide positioning aids
45. provide proper film markers
46. set appropriate exposure factors
47. use correct SID
48. utilize proper collimation
49. define grid ratios
50. identify central ray placement*
51. identify correct anatomy on images*
52. identify exposure area
53. identify grid types
54. identify patient body habitus
55. identify patient condition*
56. differentiate projections and their appropriate angulations
57. establish patient rapport*
58. explain exam instructions
59. maneuver radiographic equipment*
60. apply appropriate technique for specified anatomy measurement
61. collaborate with supervising technologists in performing proper patient care
62. calculate technical factors
63. determine appropriate radiation protection devices
64. express instructions precisely
65. indicate usage of right and left marker placement*

Student Contributions
In order to perform at a satisfactory level in the clinical area, students must be prepared, on a daily basis, to conduct themselves in the clinical setting professionally through:

Knowledge   Attitude   Work Ethic   Productivity
Evaluation   Organization   Appearance   Communication
Character   Cooperation   Team work   Critical thinking

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 preceding 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.

Clinical Competency Average  40
Clinical Progress Evaluations Average  25
Quizzes  23
Record Maintenance (Clinical Notebook)  12 (all or nothing)
Total  100

See addenda for additional requirements.
Course Schedule

Class Location; Building #4, Tuesdays: room 124, Thursdays: room 210. Clinical assignments at the affiliated clinical facilities as assigned by the respective instructor. Class Time; Tuesday and Thursday 8am – 2:00pm. Some class times may vary with Clinical Sites orientation schedules.

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 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 insure that attendance is marked. **The student is responsible** for all material/announcements presented, whether present or absent.

7. Continuity of classroom and laboratory (which includes clinical experiences) is essential to the student’s progress in providing safe and competent patient care. Students are expected to use appropriate judgment for participating in clinical activities. To evaluate the student’s knowledge and skills, it is necessary for the student to be present for all clinical experiences. If absence does occur, the designated clinical site, in addition to the Division of Health Sciences Administrative Assistant, must be notified by telephone no later than 30 minutes prior to the start of the clinical experience. The Division of Health Sciences telephone number is 843-525-8267.

8. Absences from the clinical area are strongly discouraged. The attendance policy applies to clinical activities. **“No call, no show”** for clinical is unprofessional conduct and the student will be withdrawn from the program with a WF.

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, 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. [www.tcl.edu/textalert.asp](http://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 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.

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<tr>
<th>Grading scale</th>
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<tbody>
<tr>
<td>90% - 100% A</td>
<td>W withdraw</td>
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<tr>
<td>82% - 89% B</td>
<td>WP withdraw with passing grade</td>
</tr>
<tr>
<td>75% - 81% C</td>
<td>WF withdraw with failing grade</td>
</tr>
<tr>
<td>70% - 74% D</td>
<td>I Incomplete</td>
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<tr>
<td>Below 70% 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. 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.

Course Instructor: Glenn M. Levicki, MSRS, R.T. (R) (MR) (CT) (ARRT)
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