Course Description
RAD 155 Applied Radiography I
Lec. 0 Lab. 15 Cr. 5
This course introduces the clinical environment of the hospital by providing basic use of radiographic equipment and routine radiographic procedures.
Prerequisites: BIO 210, RAD 101, RAD 130, RAD 150.
Co-requisites: BIO 211, ENG 101, RAD 110, RAD 136.

Course Focus
This course introduces the clinical environment of the hospital by providing basic use of radiographic equipment and routine radiographic procedures.

Required Text and References


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

**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.
Recording Devices / Cell Phones
Students are not allowed to use recording devices during any lectures, lab, or clinical periods. Moreover, students must have cell phones turned off (not on vibrate) during lectures and lab times. If for any reason a cell phone rings or vibrates during lecture or lab, the student will receive a grade reduction per occurrence after the first warning. Students are not allowed to have their cell phone, iPod, or any other electronic device at their clinical rotations. Violation of the rules/requirements listed above will be reason for dismissal from the Radiologic Sciences program.

Course Evaluation
It is the student's responsibility to complete the set number of competency exams 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 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 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.

COMMON DEDUCTIONS ON CLINICAL FORMS (not limited to)
1 error = grade of 89%
2 errors = grade of 81%
3 errors = failure (competency must be repeated. Failing score and repeat score will be averaged for a final competency grade.

Course Schedule
Class Location: Clinical assignments at the affiliated clinical facilities as assigned by the respective instructor.
Class Time: Tuesday and Thursday: Day rotations (8am-4:00pm), Evening rotations (1pm-9:00pm), Rotations as assigned.

Clinical Competency Average 45 %
Clinical Progress Evaluations Average 24 %
Film Critique Presentation 25 %
Record Maintenance (Clinical Notebook) 6 % (all or nothing)
Total 100 %

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

Revised January 2015/approved: GMLevicki Jan. 2015
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/clinic 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. Students must notify the clinical coordinator via phone message PRIOR to their clinical start time and follow proper steps outlined in syllabus addendum and Radiologic Student Handbook depending upon student’s tardiness or being absent from clinic. Failure to do so WILL RESULT IN DISMISSAL FROM THE PROGRAM.

6. It is the student’s responsibility to sign the roll/verify attendance upon entering and exiting the clinical classroom. Failure to sign the roll entering and exiting to verify attendance results in a recorded absence, and may be REASON FOR DISMISSAL FROM THE PROGRAM. 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 Clinical Coordinator must be called @ 843-525-8261, including the Division of Health Sciences Administrative Assistant @ 843-525-8267 no later than 30 minutes prior to the start of the clinical experience.

8. Absences from the clinical area are strongly discouraged. The attendance policy applies to clinical activities. If ALL steps outlined in the syllabus, syllabus addendum, Radiologic Student Handbook, and Division Handbook are not followed, it may result in a “No call, no show” for clinical and is considered 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.

*Please refer to the Division Handbook for clarification of the No Call/No Show process.*

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 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>
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<tr>
<td>90% - 100% A</td>
<td>withdraw</td>
<td>withdraw with passing grade</td>
<td>withdraw with failing grade</td>
<td>Incomplete</td>
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<tr>
<td>82% - 89% B</td>
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<td>75% - 81% C</td>
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<td>70% - 74% D</td>
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<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.

**CLASS INFORMATION**

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

**OFFICE LOCATION:** Building 4 Room 109

**TELEPHONE NUMBER:** 843-525-8276

**E-MAIL:** glevicki@tcl.edu