Course Description
RAD 268 Advanced Radiography II
Lec. 0 Lab. 24 Cr. 8
This course includes routine radiographic examinations, as well as advanced procedures, while continuing to build self-confidence in the clinical atmosphere.
Prerequisites: PSY 201, RAD 115, RAD 176, RAD 201.

Course Focus
This course includes routine radiographic examinations, as well as advanced procedures, while continuing to build self-confidence in the clinical atmosphere.

Text and References


Bontrager, K.L. & Lampignano, J.P. Handbook of Radiographic Positioning and Techniques (pocket size), (7th ed.). St. Louis: Mosby

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. learn required evening objectives
2. screen thoroughly MRI patients
3. value knowledge of radiation protection*
4. value usage of dosimetry/film badge
5. evaluate isolation techniques
6. evaluate optional injection techniques*
7. monitor possible allergic reactions*
8. monitor printer devices for ordered examinations
9. observe patient responses
10. observe radiographic examinations
11. organize and view radiographs
12. respect documentation needs
13. select appropriate image receptor
14. select appropriate needle gauge
15. select immobilization devices
16. select pathology topic
17. select proper applicable imaging coils
18. verify possible pregnancy*
19. demonstrate alternative positioning knowledge
20. demonstrate appropriate exam supplies
21. demonstrate central ray angulation
22. demonstrate cross-sectional anatomy knowledge*
23. demonstrate effective aseptic technique
24. demonstrate effective patient care
25. demonstrate examination modifications
26. demonstrate facility readiness
27. demonstrate proper immobilization
28. demonstrate safe patient care*
29. participate in emergency/ trauma radiography
30. participate in post-operative procedures
31. participate in pre-operative procedures
32. process required images*
33. research pathology topic
34. attempt to perform venipuncture
35. confirm patient identification*
36. consult supervising radiographer
37. convey post procedure instructions
38. discontinue according to protocol IV contrast
39. image post-void radiographs
40. maintain image proper patient identification*
41. maintain proper personal hygiene
42. maintain safe patient environment*
43. obtain proper incremented tomographic levels
44. position perpendicular to image receptor central ray
45. protect patient modesty
46. protect sterile field
47. retrieval of images using PACS system
48. route images to appropriate location
49. supply alternative communication methods
50. treat patient respectfully
51. verbalize before exposure taken on mobile x-ray exams*
52. adjust accurate collimation
53. align position of central ray
54. assist dressing patient
55. assist performing patient transfer
56. assist performing radiologist
57. assist supervising technologist
58. assist with contrast injection
59. calculate contrast injection rate*
60. calculate injection dosage*
61. calculate technical factors
62. check for physician orders in patient chart*
63. clean imaging equipment
64. engage in communication with radiologist
65. engage in communication with staff
66. illustrate fluoroscopy set-up
67. manipulate appropriate floor shields
68. manipulate doppler topic devices
69. manipulate proper x-ray equipment
70. manipulate tomographic equipment
71. measure specified tomographic anatomy
72. collaborate with supervising radiographers
73. prepare contrast media
74. present additional needed markers
75. present pathology topic
76. produce diagnostic images
77. provide correct film markers
78. provide patient comfort
79. provide patient reassurance
80. provide position aids
81. provide projection modification
82. remove patient area visitors
83. secure patient belongings
84. seek necessary assistance
85. set exposure factors*
86. utilize desired affiliate ureteral compression
87. utilize equipment controls
88. utilize equipment locks
89. utilize proper collimation
90. appreciate reduced OID
91. comprehend pre-medication protocols to allergic reactions*
92. define grid ratios
93. identify body habitus
94. identify central ray placement
95. identify correct anatomy
96. identify exposure area
97. identify grid ratios
98. identify patient conditions
99. identify various mobile equipment
100. know location of emergency supplies*
101. learn differing modality vocabulary
102. understand computerized tomography window leveling
103. understand CT and MRI table incrementations
104. understand digital radiography imaging leveling
105. understand principles of ALARA*
106. appreciate legality of marker placement
107. appreciate use of phototimer
108. describe spiral computerized tomography
109. differentiate projections and appropriate tube angulations
110. distinguish affiliated clinical CT protocols
111. distinguish and utilize timed markers
112. distinguish c-arm controls
113. distinguish CT positioning landmarks
114. distinguish major differences in radiology modalities
115. distinguish proper area for injection site*
116. establish rapport with patients
117. review clinical history
118. review clinical site specific SOP
119. review with radiologist patient preps
120. apply measured anatomy’s technique
121. apply protocols for scout CT procedures
122. complete in a timely manner all images
123. complete required CT competencies*
124. create pathology topic power point
125. determine appropriate protection devices
126. indicate identification 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 are to 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. See course addendum for other considerations.

**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 assigned at the beginning of the semester. Refer to addendum for further grading information pertaining to this course.

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: Monday, Wednesday, & Friday: Varying 8 hour shifts, (with 30 minute lunch break). Times ranging from 7am (start time), to 9:30pm (ending time).

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/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 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. If ALL steps outlined in the syllabus, syllabus addendum, and Radiologic Student 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 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, WLHH 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.

**GRADING POLICY**

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

**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.

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: gle Hick1@tcl.edu