RAD 276
Advanced Radiology III
Summer 2014

Course Description
RAD 276 Advanced Radiography III
This course includes routine and advanced radiographic procedures in the clinical environment.
Prerequisites: satisfactory completion of all prior RAD courses
Co requisite: RAD 236.
Lec. 0 Lab. 18 Cr. 6

Course Focus
Upon completion of this course, the student will have a greater appreciation for the clinical environment and radiologic technology as a profession.

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. screen thoroughly MRI patients
*2. evaluate injection techniques
3. evaluate isolation techniques
*4. monitor possible allergic reactions
5. monitor printer devices for ordered examinations
6. observe patient responses
7. observe radiographic examinations
8. organize and view radiographs
9. respect documentation needs
10. select appropriate image receptor
11. select immobilization devices
12. select proper applicable imaging coils
13. select proper gauge needle for injection
*14. verify possible pregnancy
15. demonstrate alternative positioning knowledge
16. demonstrate appropriate exam supplies
17. demonstrate central ray angulation
18. demonstrate effective aseptic technique
19. demonstrate examination modifications
20. demonstrate facility readiness
21. demonstrate proper immobilization
*22. confirm patient identification
23. consult supervising radiographer when necessary
24. convey post procedure instructions
*25. maintain proper patient identification on images
26. position central ray perpendicular to image receptor
27. protect patient modesty
28. protect sterile field
29. supply alternative communication methods
30. treat patient respectfully
*31. address direct and indirect supervision
32. adjust collimation accurately
33. align position of central ray
34. assist patient dressing
35. assist performing patient transfer
36. assist radiologist performing exam
37. assist supervising technologist
38. assist with contrast injection
39. calculate contrast injection rate
*40. calculate injection dosage
41. calculate technical factors
*42. check patient chart for physician orders
43. engage in communication with radiologist
44. engage in communication with staff
45. illustrate fluoroscopy set-up
46. manipulate doppler topic devices
47. manipulate floor shields
48. manipulate proper x-ray equipment
49. prepare contrast media
50. present additional markers as needed
51. produce diagnostic images
52. provide correct film markers
53. provide patient comfort
54. provide patient reassurance
55. provide position aids
56. provide projection modification
57. remove patient area visitors
58. secure patient belongings
59. seek necessary assistance
*60. set exposure factors
61. utilize equipment controls
62. utilize equipment locks
63. utilize proper collimation
64. define grid ratios
65. identify body habitus
66. identify correct anatomy
67. identify exposure area
68. identify grid ratios
69. identify patient conditions
70. identify placement of central ray
71. identify various mobile equipment
*72. know location of emergency supplies
73. learn differing modality vocabulary
74. understand CT and MRI table incrementations
75. appreciate legality of marker placement
76. appreciate reduced OID
77. appreciate use of phototimer
78. differentiate projections and appropriate tube angulations
79. distinguish and utilize timed markers
80. distinguish c-arm controls
81. distinguish proper area for injection site
82. distinguish the major differences in radiology modalities
83. review clinical history
84. review clinical site specific SOP
85. review with radiologist patient preps
86. apply technique for anatomy measured
87. collaborate with supervising radiographers
88. complete in a timely manner all images
89. determine appropriate protection devices
90. indicate identification 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:

1. Knowledge
2. Attitude
3. Work Ethic
4. Productivity
5. Evaluation
6. Organization
7. Appearance
8. Communication
9. Character
10. Cooperation
11. Team work
12. Critical thinking

Course Evaluation
It is the students 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 students 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
40 Points Student Comprehensive Review of Clinical Experiences/Pathology Presentations
48 Points Student Clinical Progress Evaluations Average and Clinical Competency Average (if any apply)
12 Points Record/Maintenance/Notebook

Course Schedule
Class Location: Clinical assignments at the affiliated clinical facilities as assigned by the respective instructor.
Class Time: M-T-TH-F, 8am-3:30pm / MUMC M-T-TH-F or F-S 6am-1:30pm / 8pm-7:30am / 9am-8:30pm

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, WLVH 101.1, WSOK 1230 AM, WAEV 97.3, WTOP 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 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

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<th>W</th>
<th>WP</th>
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<td>90% - 100%</td>
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<td>82% - 89%</td>
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RAD 276 SU2014/approved M.Sapp 05.01.2014
**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.

- **Course Coordinator:** Glenn M. Levicki, MSRS, R.T. (R) (MR) (CT) (ARRT)
- **Office Location:** Building 4, Room 125
- **Office Number:** 843-470-8402
- **Office Hours:** By Appointment
- **Email:** glewicki@tcl.edu

Developed/Revised: April, 2014