RADR 2335 RADIOGRAPHIC TECHNOLOGY SEMINAR

CREDIT: 3 semester credit hours

PREQUISITE: RADR 2305 Principles of Radiographic Imaging II

COURSE DESCRIPTION: A capstone course focusing on the synthesis of professional knowledge, skills, and attitudes in preparation for professional employment and lifelong learning.

CAPSTONE COURSE:
This is the capstone course for the Medical Radiologic Technology program. The student will have to meet certain requirements for completion:
1. score at least a 77 in the course (RADR2335)
2. score an 80% or above on the RadReviewEasy internet based 200? Simulated Registry Review Exam (administered in the Media Center)

INSTRUCTOR:
Brenda A. Barrow, M.Ed., R.T.; Office 232 Multi-Purpose Center, PHONE 880-8848 brenda.barrow@lit.edu

TEXTBOOKS and MATERIALS:
- All previous radiology program textbooks.
- RadReviewEasy.com Radiography Review Website
- #882 Scan-trons and pencils

FEES:
- $200 American Registry Radiologic Technologist (national exam)
- $32 Texas Department State Health Services Medical Radiologic Technologist license (state license)
- Graduation fees (diploma, cap, gown)

COURSE OBJECTIVES:
A. Demonstrate entry level proficiency in knowledge, skills, and attitudes necessary for professional employment
B. Articulate the need for lifelong learning
**COURSE REQUIREMENTS/ASSIGNMENTS:**

1. All students will take a 250 question pre-test to access their current knowledge. This grade will *not* count toward the final course grade. After the pre-test is graded, evaluated, and returned, the students will submit 20 questions from their two designated weak areas as assigned by Mrs. Barrow. Each student will prepare a **TOTAL OF 40 QUESTIONS**. Questions shall be short answer. No matching, true/false, multiple choice, or discussion type questions will be accepted. Questions shall be typed or printed legibly on 3 X 5 inch note cards, one question per note card. The card shall include question, underlined answer, reference book and page number, student’s initials, and subject of card. (REGISTRY REVIEW BOOKS OR STUDY GUIDES ARE NOT ACCEPTABLE REFERENCE BOOKS.) This will assess the students writing skills. *Students who have duplication over 40% (16 questions) of another student will receive a deduction of 10 POINTS from their category test score. 2 POINTS will be deducted from the cumulative points for each class the cards are late.*

2. Students will participate as a team in a “Prep Bowl” style competition. This will help build self-esteem. *(MISSING OR BEING LATE FOR THE ASSIGNED TIME TO PLAY WILL RESULT IN A LOSS OF 5 POINTS FROM THE STUDENT’S CUMULATIVE POINTS FOR EACH TIME LATE OR MISSED.)* Read the attached rules. Students can gain extra points by winning rounds of the Prep Bowl competition.

3. Cumulative points will be awarded for prep-bowl, TSRT Convention, and other opportunities during the semester as they arise (**UP TO 30 POINTS MAXIMUM**). Also points may be deducted from the cumulative points for failure to turn in assignments on time or absence on prep-bowl days (see rules).

4. Assignments will be made in the Mosby’s Comprehensive Review of Radiography Workbook. These will be pass/fail. *Failure to complete the assignment by the required date will result in a deduction of 5 points from the cumulative points.*

5. Each student will be required to register with *RadReviewEasy.com* and take an online exam for each section discussed (technique, positioning, physics, and patient care). Each exam will be **100 questions**. The student will take the exams online until they score at least an **80%**. The score should be printed and turned in by the dates listed in this syllabus. *Failure to turn in the test on time will result in a deduction of 5 POINTS from their cumulative points per class it is late.* If the student has not passed the radrevieweasy test they should print their current score each class to show that they are working on it. This teaches the student self-management and responsibility.

6. Complete the review outline in the **ARRT Certification Handbook** for each corresponding test section. *Failure to turn in the review on time will result in a deduction of 5 POINTS from their cumulative points per class it is late.*

7. The final *RadReviewEasy* exam will include all sections. It will be **200 questions**. *Students not scoring an 80% by the end of the semester will be given an incomplete (I) in the course and will not be allowed to graduate.* Those receiving an incomplete (I) will not be allowed to take the Registry until such time that successful remediation is completed.
GRADING SYSTEM:
Grades will be determined in the following manner:

1. (4) MAJOR CATEGORY TESTS and CUMULATIVE EXTRA POINTS  50%
2. 200? COMPREHENSIVE FINAL  50%

CUMULATIVE POINTS: PENALTY POINTS and EXTRA POINTS will be added to the total category test score (before averaging). The extra points will come from prep bowl, convention, assignments, and approved learning opportunities.

GRADE SCALE: NUMERIC TO LETTER GRADE CONVERSION:

A = 93 - 100
B = 84 - 92
C = 77 - 83
D = 60 - 76
F = 0 - 59

* A minimum of 77% is required for successful completion of this course!

COURSE POLICIES:

- No food, drinks, or use of tobacco products in class.
- Beepers, telephones, headphones, and any other electronic devices must be turned off while in class.
- Do not bring children to class. Recording devices may be used except during test reviews and when otherwise stated by the instructor.
- Lap top computers, I-pad… may be used to take notes during class but may not be used to “surf” the internet, look-up answers, nor anything not directly related to note taking.
- ATTENDANCE POLICY:
  Each student is responsible for attending every class session. When it becomes necessary to miss a session, it is the responsibility of the STUDENT to contact the instructor and to inquire about assignments.

  When the student has missed sufficient hours to cause a drop in grade points by missing class discussions, participation, major test and or assignments, he/she will be notified in writing by the instructor concerning the possibility of failure in the course. The student should respond and meet the instructor for counseling.

  If a major test is missed, the student must request a make-up examination from the instructor. This test will be administered at the first day the student returns to class or at a time designated by the instructor. There will be an automatic 10 point reduction on the make-up exam.

COURSE OBJECTIVES:
By the end of the semester the student will:

1. Utilize knowledge, skills, and attitudes to demonstrate entry level proficiency for professional employment
2. Understand the importance of continuing education
3. Be aware of the recommended techniques and skills associated with test taking
4. Be aware of individual areas of weakness in the four areas covered (Technique, Positioning, Equipment, Patient Care)
5. Be prepared both mentally and psychologically to take the ARRT National Registry Examination for Radiologic Technologists
6. Be comfortable in taking computer generated tests
7. Submit applications for ARRT national Registry exam and DSHS Texas license

**COURSE OUTLINE:**
By the end of the semester the student will:

1. Develop a resume
2. List important steps to a good job interview
3. Discuss test taking tips and study skills
4. The student will know their weak areas in radiology from scores on pre-test
5. Prepare questions for “Prep Bowl” Competition in their weakest areas.
6. Complete four (4) 100 question RadReviewEasy web based exams with an 80% or higher
   a. Image Production/Technique
   b. Equipment
   c. Radiographic Procedures/Positioning
   d. Patient Care
7. Compete in “Prep Bowl” type competition
   a. Physics
   b. Image Production
   c. Positioning & Anatomy
   d. Patient Care
8. Review the following areas using skills required in the objectives of each course
   A. Image Production - RADR 1313 & RADR 2305
   B. Anatomy and Positioning - RADR 1411 & RADR 2301
   C. Equipment - RADR 2309
   D. Patient Care - HPRS 1201 & RADR 1309
9. Apply for Department of State Health Services Medical Radiologic Technologists license
10. Apply to take the American Registry Radiologic Technologists national registry exam.

**DISABILITIES STATEMENT:**
The Americans with Disabilities Act of 1992 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. Among other things, these statutes require that all students with documented disabilities be guaranteed a learning environment that provides for reasonable accommodations for their disabilities. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409) 880-1737 or visit the office in Student Services, Cecil Beeson Building.
<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
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<tbody>
<tr>
<td>JAN 21</td>
<td>INTRODUCTION EXPLAIN CLASS &amp; REGISTRY APPLICATION</td>
</tr>
<tr>
<td>JAN 26</td>
<td>PRE-TEST 1ST PART (1 – 100)</td>
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<td>JAN 28</td>
<td>PRE-TEST 2ND PART (101 – 250 -- 2 scan-trons)</td>
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<tr>
<td>FEB 2</td>
<td>TEST TAKING TIPS (BLAND)</td>
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<td>FEB 4</td>
<td>REVIEW TEST RESULTS (RECEIVE ASSIGNMENTS FOR CARDS)</td>
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<td>FEB 9</td>
<td>REVIEW TEST RESULTS CONT.</td>
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<tr>
<td>FEB 11</td>
<td>RESUME WRITING (NANCE) <strong>CARDS/QUESTIONS DUE</strong></td>
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<tr>
<td>FEB 16</td>
<td>PREP BOWL - POSITIONING AND PROCEDURES</td>
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<tr>
<td>FEB 18</td>
<td>REVIEW POSITIONING AND PROCEDURES (BARROW)</td>
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<tr>
<td><strong>FEB 23</strong></td>
<td>TEST - POSITIONING AND PROCEDURES (RadReviewEasy)</td>
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<tr>
<td></td>
<td><strong>POSITIONING 100? AND OUTLINE Due</strong></td>
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<tr>
<td>FEB 25</td>
<td>GO OVER TEST</td>
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<tr>
<td>MAR 2</td>
<td>PREP BOWL - IMAGE PRODUCTION (TECHNIQUE)</td>
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<tr>
<td>MAR 4</td>
<td>REVIEW IMAGE PRODUCTION (BARROW)</td>
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<tr>
<td><strong>MAR 9</strong></td>
<td>TEST - IMAGE ACQUISITION &amp; EVALUATION (RadReviewEasy)</td>
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<tr>
<td></td>
<td><strong>TECHNIQUE/PRODUCTION 100? AND OUTLINE Due</strong></td>
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<tr>
<td>MAR 11</td>
<td>GO OVER TEST</td>
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<tr>
<td>MAR 16 &amp; 18</td>
<td>SPRING BREAK</td>
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<td>MAR 23</td>
<td>PREP BOWL - PATIENT CARE</td>
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<tr>
<td>MAR 25</td>
<td>REVIEW PATIENT CARE (ROBINSON)</td>
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<td><strong>MAR 30</strong></td>
<td>TEST - PATIENT CARE (RadReviewEasy PATIENT CARE 100?</td>
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<td><strong>AND OUTLINE Due</strong></td>
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<tr>
<td>APR 1</td>
<td>GO OVER TEST</td>
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<td>APR 6</td>
<td>PREP BOWL - EQUIPMENT</td>
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<tr>
<td>APR 8</td>
<td>REVIEW EQUIPMENT (BARROW)</td>
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<tr>
<td><strong>APR 13</strong></td>
<td>TEST – EQUIPMENT (RadReviewEasy PHYSICS/EQUIPMENT 100? AND OUTLINE Due)</td>
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<tr>
<td>APR 15</td>
<td>GO OVER TEST</td>
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<tr>
<td>APR 20</td>
<td>INTERVIEWING SKILLS (McMAHON)</td>
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<tr>
<td>APR 22</td>
<td>PREP BOWL - GRAND CHAMPION SEMIFINALS</td>
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<tr>
<td>APR 27</td>
<td>PREP BOWL - GRAND CHAMPION FINAL</td>
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<tr>
<td>APR 29</td>
<td>Digital Imaging Review (NANCE)</td>
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<tr>
<td>MAY 4</td>
<td>Autopsy DVD</td>
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<tr>
<td>MAY 6</td>
<td>RadReviewEasy COMBINATION 200? Due by 3:00</td>
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<td>MAY 13</td>
<td>FINAL 8:30 – 11:30 3 hr?????? <em><strong>get grades 12:30 in person</strong></em></td>
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RADIOLOGY “PREP BOWL” RULES

A. Preparation
   1. Teams will consist of three or four people as originally assigned.
   2. Attendance is critical. If a player is late or absent the team will continue to play.
      A. If the team wins the member(s) present will receive the points (2) but will not advance to the play-off round. Instead the team with the next highest points will advance.
      B. Those team members that are late or absent will have five points deducted from their cumulative points.
   3. The judges will be Mrs. Barrow and her designate. All decisions by Mrs. Barrow are final.
   4. One of the judges will read the questions aloud and the other will keep score.

B. Play
   1. The question will be read aloud.
   2. The teams will have 20 seconds to respond, after the completion of the reading of the question.
   3. Any team member can hit the buzzer during or at the conclusion of the reading of the question.
   4. Once the buzzer sounds, the reading of the question will stop.
   5. The reader will call on the person who buzzed in for a response and he or she will have 20 seconds for a response.
   6. Team members can help or confer with the person answering the question.
   7. If the judges hear or see any collaboration from the audience the question will be thrown out.
   8. If the question is answered correctly the team receives 1 point.
   9. If the question is answered incorrectly 1 point will be deducted and the other team will have the question reread and given 20 seconds to respond. This team may confer upon the answer.
   10. If the question is answered correctly the team will receive 1 point and if answered incorrectly 1 point will be deducted. The team may pass on the question and no points will be deducted. A new question will then be read and play will continue.
   11. At the end of 15 minutes a buzzer will sound, signaling the end of the game. If a question is being read during this time it will be completed and teams allowed to answer.
   12. If teams are tied at the end of 15 minutes, there will be a 5 question tie breaker.
# RADIOLOGY BOWL TEAMS

<table>
<thead>
<tr>
<th>TEAM &quot;A&quot;</th>
<th>TEAM &quot;B&quot;</th>
<th>TEAM &quot;C&quot;</th>
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<tbody>
<tr>
<td>Dalena DelaCruz</td>
<td>Emily Desormeaux</td>
<td>Candace Harris</td>
</tr>
<tr>
<td>Megan Jones</td>
<td>Cissy Lara</td>
<td>Valeria Leal</td>
</tr>
<tr>
<td>Courtney Hargrave</td>
<td>Lela Hyatt</td>
<td>Kenyetta Sanders</td>
</tr>
<tr>
<td>April McClure</td>
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<td>April Simoneaux</td>
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</tbody>
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<table>
<thead>
<tr>
<th>TEAM &quot;D&quot;</th>
<th>TEAM &quot;E&quot;</th>
<th>TEAM &quot;F&quot;</th>
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</thead>
<tbody>
<tr>
<td>Crystal Killingsworth</td>
<td>Garret Ferguson</td>
<td>Miranda Daigle</td>
</tr>
<tr>
<td>Rebecca Presseisen</td>
<td>Vanessa Magana</td>
<td>Hannah Guy</td>
</tr>
<tr>
<td>Jordan Richey</td>
<td>Kayla Savoie</td>
<td>Hoan Nguyen</td>
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</tbody>
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SCHEDULE OF PLAY

RADIOGRAPHIC PROCEDURES
(POSITIONING & ANATOMY)
February 16

10:30 to 10:45
TEAM A  TEAM B
TEAM C

10:50 to 11:05
TEAM D  TEAM E
TEAM F

WINNER (2pts)  WINNER (2pts)

WINNER (4pts)
11:10 to 11:25

IMAGE ACQUISITION AND EVALUATION
(TECHNIQUE)
March 2

10:30 to 10:45
TEAM B  TEAM C
TEAM D

10:50 to 11:05
TEAM E  TEAM F
TEAM A

WINNER (2pts)  WINNER (2pts)

WINNER (4pts)
11:10 to 11:25

PATIENT CARE AND MANAGEMENT
March 23

10:30 to 10:45
TEAM C  TEAM D
TEAM E

10:50 to 11:05
TEAM F  TEAM A
TEAM B

WINNER (2pts)  WINNER (2pts)

WINNER (4pts)
11:10 to 11:25
EQUIPMENT AND QUALITY CONTROL
APRIL 6

10:30 to 10:45 TEAM F TEAM A
TEAM C

10:50 to 11:05 TEAM B TEAM D
TEAM E

WINNER (2pts) WINNER (2pts)

WINNER (4pts)
11:10 to 11:25

REVIEW - ALL CATEGORIES

SEMI-FINALS
APRIL 22
(20 MIN. ROUND)

10:30 to 10:50 TEAM A TEAM C
TEAM E

10:55 to 11:15 TEAM B TEAM D
TEAM F

WINNER (4pts) WINNER (4pts)

REVIEW - ALL CATEGORIES

FINALS
APRIL 27
(30 MIN. ROUND)

10:30 to 11:00
WINNER
(4pts)