Radiologic Technology 328 - Registry Review Class  
Lecture & Reading Schedule  Fall 2013  
Classes Meet Tuesday & Fridays  9:00am – 1:00 pm

**Required Texts & Materials:**
- ♦ Radiography PREP Program Review & ExamPrep (7th Ed) *(Rad Prep)*
- ♦ Appleton & Lange Q&A: Radiography Examination (9th Ed) *(Lang Q&A)*
- & ARRT & STATE APPLICATION FEES FOR LICENSURE  ~ $300.00

<table>
<thead>
<tr>
<th>DATE</th>
<th>LECTURE TOPICS &amp; EXAMS FOR</th>
<th>Reading &amp; Review</th>
<th>ARRT Category</th>
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<tbody>
<tr>
<td>Tues - Aug 27</td>
<td>RT 328 Syllabus &amp; Journal Review ARRT Application &amp; Costs PATIENT CARE &amp; EDUCATION</td>
<td>Rad Prep I: Ch 1-4</td>
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<td></td>
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<td>Lange Q&amp;A – Ch 1</td>
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<td>Fri - Aug 30</td>
<td>IMAGE ACQUISITION &amp; EVALUATION</td>
<td>Rad Prep IV: Ch 11-13</td>
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<td>Lange Q&amp;A – Ch 4</td>
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<td>Tues - Sep 3</td>
<td>IMAGING PROCEDURES</td>
<td>Rad Prep II: Ch 5-6</td>
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<td>Lange Q&amp;A – Ch 2</td>
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<td>Fri - Sep 6</td>
<td>RADIATION PROTECTION</td>
<td>Rad Prep III: Ch 7-10</td>
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<td>Lange Q&amp;A – Ch 3</td>
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<td>Tues – Sep 10</td>
<td>EQUIPMENT OP : FLUOROSCOPY</td>
<td>Rad Prep V: Ch 7-10</td>
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<td>Lange Q&amp;A – Ch 5</td>
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<tr>
<td>Fri – Sep 13</td>
<td>EQUIPMENT OPERATION &amp; QC &amp; Review Fluoro Exam</td>
<td>Rad Prep V: Ch 7-10</td>
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<td>Lange Q&amp;A – Ch 5</td>
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<tr>
<td>Tues – Sep 17</td>
<td>Continue Review Equipment Technique problems &amp; Formulas PATIENT CARE &amp; EDUCATION –Part 2</td>
<td>Reflection Paper DUE</td>
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<td>(RT 93 Class)</td>
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<td>Fri – Sep 20</td>
<td>ARRT MOCK REGISTRY EXAM</td>
<td>200 questions</td>
<td>ALL</td>
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<td>Tus – Sep 24</td>
<td>Review of ARRT EXAM</td>
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<td>Fri – Sep 27</td>
<td>Complete Evaluations Resume Writing &amp; Interviewing Make up Exams / Registry Lunch ?</td>
<td>Power point on web</td>
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<td>FINAL RESUME DUE</td>
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<td>LAST WEEK OF CLINICAL!</td>
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<td>POSTERS DUE</td>
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<td>Tues – Sep 29</td>
<td>Wrap up &amp; Check out ARRT ETHICS Make up Exams &amp; Evaluation</td>
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<td>All Clinical paperwork due forever!</td>
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<td>*Wed- Sep 30</td>
<td>Breakfast with Faculty @ CoCo’S</td>
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<td>~ 9:30 am</td>
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<td>Fri-Oct 1</td>
<td>COMPLETION CEREMONY 6:30 PM – 9:00 PM – Marsee Aud Meet in MBA 401 @ 5:15 With Lab Coats &amp; Dress Attire</td>
<td>“Go forth &amp; x-ray”</td>
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Radiologic Technology 328
Registry Review Class - Syllabus
Fall 2013

Instructor: D. Charman 660-3593 X 3247  RadTechDirector@elcamino.edu
Office: MBA 417D - See webpage for office hours
Class times: TUES 9:00 -1:00 & Friday 9:00 -1:00 MBA 420
& 24 hrs/week of Clinical – Arranged

Required Texts:
♦ Radiography PREP Program Review & Exam Preparation (7th Ed)
Appleton & Lange Q&A: Radiography Examination (9th Ed)
   Author: Dorothy A. Saia, McGraw-Hill publisher

This course is designed to prepare you for your upcoming and long awaited ARRT exam. It is essential that you study the material in your textbooks **before** coming to class.

Highlight specific questions in the review book that you would like to address or clarify.

You will need at least 6 (100 q) scantrons & 1 large (200q) scantron
Each class you will be taking – 1 – 2 exams on the topics listed followed by a review

YOU Should PASS EACH SECTION EXAM WITH **75%** OR BETTER –
A score below 65% MUST BE RETAKEN!
As with all RT courses You must pass this class with 73% or better.

**ATTENDANCE IS EXTREMELY IMPORTANT TO SUCCEED**

All missed exams MUST be made up **before** the next class meeting – or a score of “0” will be given for the section.

**USE YOUR TIME WISELY – BE PREPARED FOR CLASS – STUDY HARD – YOU ARE ALMOST DONE!**
COURSE SYLLABUS for RTEC 328

Lead Instructor & Program Director: Dawn Charman, M.Ed, RT (R,F)
E-mail: RadTechDirector@elcamino.edu
Phone # (310) 660-3593 ext. 3247 Office: MBA417D

Student Learning Outcome
1. Students will apply ALARA (as low as reasonably achievable) radiation safety principles on patients, self and other members of health care team.
2. Students will assess patient’s condition and make appropriate modifications to the examination based on their condition.

Course Description
This course continues the development of clinical skills in radiography with emphasis in specialized radiography and new modalities. Advanced clinical practice experiences are designed to provide competent performance of radiologic imaging, using sequential development, critical analysis, and evaluation in the performance of radiologic procedures and patient assessment and care. Students perform independently with appropriate supervision to assess their skills for employability. This course also reviews the entire radiologic technology curriculum, following the American Registry of Radiologic Technologists (ARRT) examination outline, to prepare the students for State and National Certification examinations.

Program Policies and Procedures
RTEC 328 is a combination lecture and clinical lab course. The clinical lab is conducted at the student’s designated Affiliate Hospital. Students arrange 24 hours per week for the 8-week course. Each semester, prior to registration, students will prepare and review a clinical schedule with the Program Clinical Coordinator and the Affiliated Hospital’s Clinical Instructor. An approved copy of each student’s schedule will be provided to the Clinical Affiliate. These schedules must be adhered to unless written changes have been pre-approved (minimum of 5 business days prior) by the Clinical Instructor and the Clinical Coordinator.

COURSE OBJECTIVES AND METHODS OF EVALUATION

Course Objectives; By the end of the course the student shall be able to:
1. Describe career opportunities in the field of radiography and requirements for employment and certification.
2. Demonstrate the appropriate clinical skills required to successfully complete all mandatory and elective competencies per the ARRT guidelines for the following areas: thorax, abdomen and G.I. studies, urological studies, spine pelvis, cranium and extremities.
3. Analyze and critique radiographic images and determine correct measures to make appropriate changes or optimum image quality.
4. Diagram and label the basic components of an image intensifier tube, fluoroscopic components of the imaging chain, including the viewing and recording systems, circuit boards, x-ray generator, transformer and a rectifier.
5. Compare quality control procedures to maintain fluoroscopic and digital and radiographic equipment.
6. Demonstrate methods of reducing patient and operator dosage during radiographic and fluoroscopic procedures. Describe how patient positioning, AEC, and other technical factors as well as patient communication reduces exposure to radiation.
**COURSE SYLLABUS for RTEC 328**

**Course Objectives - continued**

7. Interpret the specific sections of California regulation control (Title 17) which govern basic radiologic and fluoroscopic standards and safety.

8. Conduct a comprehensive review through discussion, demonstration and examination of the Radiologic Technology program curriculum following the guidelines set forth by the American Registry of Radiologic Technologists (ARRT), and the California Department of Public Health – Radiologic Health Branch (CDPH-RHB) Title 17 Diagnostic Radiologic Technology and Fluoroscopy Permit School curriculum requirements for the following subject areas: Patient Care, Infection control, Professional Ethics, Situational Judgment Questions, Equipment Operation and Maintenance to include review of Fluoroscopy and Digital Imaging components and function, Radiation Protection and units of measurement, Radiobiology, Anatomy, Physiology, Pathology and Radiographic Positioning and Procedures, Age-specific competencies, Medical Terminology, Image Production, Evaluation and Critique and Imaging Department Operations.

The Course GRADE consists of the following components:

1. **Clinical and Classroom Participation (15%)** - Please refer to the clinical attendance policy in the student handbook. Attendance habits not only represent a work ethic, but also may have a significant impact on the clinical grade. Points will be deducted for absences at the clinical site, as well as, arriving late or leaving early. When a student is unable to meet their clinical schedule he/she is required to call and report to the Clinical Instructor or the Supervisor on duty and Program Clinical Coordinator, Prior to the scheduled reporting time. Failure to report absences shall result in a 2-day suspension. The student will be allowed 2 absences that will not need to be made up but, will reflect in the reduction in attendance points during this course. Any additional time missed by the student must be made up prior to the completion of the semester. Excessive absences that are not made up will result in an incomplete grade (Inc/F) for the semester. The grade will not be changed until the student has made up the time. When arriving and leaving the clinical facility, students must record the time on their time form. This applies to EVERY time the student arrives or leaves the facility. Upon completion of clinical hours each week, the student must total their clinical hours completed and record any missed time for the week.

2. **Clinical Evaluations (20%)** - A mid-semester and end of semester evaluation is completed by the Clinical Educator and Clinical Instructor. Any student that receives a failing grade (below a 73%) on the end of semester evaluation will be given an incomplete grade (Inc/F) for the semester.
3. **Clinical Reports, policies and procedures (CRPP) (10%)** - all paperwork complete and submitted on time. Includes logs presented at image critique. Original records: monthly attendance sheets, experience logs, repeat logs, monthly and year to date exam totals. Dosimeter reports must be turned in at the end of each monitoring period (monthly or quarterly) with student names highlighted, initialed and dated by each student. Points will be deducted for any paperwork submitted late to the program faculty.

4. **Competencies (15%)** - refer to student Clinical Objectives for each semester. Students shall complete a minimum of 14 competencies for the semester. Students must obtain the minimum number of competencies required for each semester, or the student will be given an incomplete grade (Inc/F) for the semester and placed on a learning contract.

5. **Written Exams (50%)**

Students will successfully pass multiple choice exams for each section of the ARRT Content Specification for Radiography, as well as a Fluoroscopy final and Comprehensive Final exam.

**Academic Honesty**

PLAGIARISM, CHEATING, OR FURNISHING MATERIALS IN ORDER TO ENABLE OTHER STUDENTS TO DO SO WILL NOT BE TOLERATED. Such behavior violates El Camino College’s Standards of Student Conduct. Cheating of any kind is a serious breach of personal morality and an offense against your fellow students, your instructors, and the college. Per El Camino College, catalog “When an instructor has determined that there is evidence of dishonesty in any academic work, the student may receive a failing grade for that piece of work and disciplinary action may be pursued” (ECC catalog, 2012).

**Special Resource Center:**

As your instructors, our primary goal is your success. The Special Resource goal is “to facilitate academic success for students with disabilities by providing equal access to educational opportunities in an integrated campus setting. In order to be eligible for support services or instruction, a student must have a verification of his/her disability. Support services are provided on an individual basis as agreed upon during consultation with an SRC counselor or specialist.” (ECC catalog, 2012). If you feel you may require special accommodations please meet with me by week three of the semester and provide appropriate documentation of your special needs.

**Grading:**

This course shall be graded using the same standards as all R.T. courses.

- A = 91+%
- B = 82 - 90%
- C = 73 - 81%
- D = 64 - 72%
- F = Below 64%

**Required Materials**

- Positioning Markers
- Scrubs
- White lab coat
- Leather shoes
- Textbooks as assigned for course
- Several Scantrons #880
- Fees for Application for ARRT & CDPH-RHB & Fluoroscopy Certification