

**BERGEN COMMUNITY COLLEGE**  
DIVISION OF HEALTH PROFESSIONS  
Radiography Program

**STUDENT COURSE OF STUDY and OUTLINE for CLINICAL EDUCATION**

**Course Information**

Course Title: Intermediate Radiography Clinical  
Code: RAD 283  
Semester: SUMMER 2016  
Credits: 3.0  
Pre-requisites: Radiography I and II  
Radiography Clinical I and II  
Principles of Imaging Equipment

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**Course Description**

Intermediate Radiography Clinical provides extensive training in the operation of a department of radiology as well as practical experience in patient handling and routine examinations under direct supervision of a registered radiographer and/or a clinical instructor. Students will spend twelve weeks meeting the established criteria for competency based clinical education.

Students will spend 2 days (Tuesday and Wednesday 8:00am to 4:00pm) on the BCC campus (in the energized lab, computer lab and didactic lab) reviewing and mastering the content of the entire first year.

Students will attend their regularly assigned clinical rotations on Thursday and Friday at the clinical site assigned times. During Summer U semester (at approx. the  $\frac{3}{4}$  mark), students will be reassigned to a new clinical site where they will remain throughout the entire second educational year.

**The final student clinical placement decision rests with the clinical coordinator.**

**Narrative Statement**

- Competency Based Clinical Education is a progressive approach to the development of clinical skills.
- Students begin this process through didactic instruction and supervised laboratory practice.
- Students progress to the participative stage of the *Competency Based Clinical Education System*, by observing an examination or groups of examinations before they begin their "hands-on" clinical experience.
- During the participative stage, students progress to a more active role in their clinical responsibilities.
- First, they perform simulations, demonstrations, patient care simulations and competencies under the direct supervision of the Clinical Instructor.
- Second, students perform a series of continual evaluations that are used to assure maintained competence.

- Although these cases assess maintained skills, continual evaluations must also show progressive proficiency.
- The final stage involves Terminal Evaluations, which allow the student to demonstrate their basic entry-level clinical skills.

## **E. Course Grading Requirement/ Policy:**

### **30% FRESHMEN COMPREHENSIVE EXAMINATION**

Upon completion of RAD 283, each radiography student will take the *Comprehensive Examination*. It consists of 125 items that are derived from the content delivered throughout the entire first year. It is an effective tool to gauge the student's overall knowledge level. Before the exam, students will be afforded an extensive overview of the exam's content, which is mandatory. In order to pass the exam, students must achieve a 80% or higher. Students have one opportunity to pass this exam. Rationale: 80% represents a comfortable grading area and assures the student and the program of curriculum content retention.

### **20% CLINICAL PROFILE EVALUATION FORM**

Each clinical instructor will complete a Clinical Profile Form (aprox. 6<sup>th</sup> week) for formative purposes and a final profile at the end of the summer which is summative. Instructors will schedule a midterm conference to discuss issues that affect student progress toward meeting the clinical objectives.

The profile documents student performance in demonstrating: patient care, clinical skills, initiative, attitude, dependability, ethical practice, quality and quantity of work, organization, radiation protection, universal precautions and patient safety.

### **20% Affective Domain Form**

Each instructor will complete an Affective Domain form in the (aprox. 6<sup>th</sup> week) and again at the end of the summer. The first form is formative and not counted toward the grade affording the student an opportunity to re-assess their performance and make any necessary improvements. The second Affective Domain form at the end of the summer is summative and counted toward the final grade.

### **20% Clinical Competency Evaluation Requirement**

- 7 mandatory cases (ICCE), numerically graded
- 5 elective cases (ECCE), pass or fail status (see note below)
- 2 continual cases (CCCE), pass or fail status

Any elective cases not performed in clinical will be done on campus in the energized laboratory component during RAD 290. However, it is suggested that each student attempt to obtain all necessary electives in clinical.

### **10% Summer Laboratory experiences: (BCC campus Tuesday and Wednesday)**

All summer review quizzes 5%

Attendance, participation, and review packet 5%

**Pass/Fail image evaluations: 5 evaluations must be done in clinical**

**F. Course Textbooks**

Bontrager and Anthony (2004) Textbook of Radiographic Positioning and Related Anatomy. Mosby, 6<sup>th</sup> Edition

**G. Student Supervision Policy For Clinical Education Activities:****Direct Supervision**

All Freshmen students are required to work under direct clinical supervision. All medical imaging procedures are performed under the direct supervision of a qualified practitioner (licensed radiographer) until competency is achieved. All operating room, portable, special and specialty imaging procedures require direct supervision of a licensed radiographer, regardless of the student's level of competency. Specialty Imaging is *observation* only.

**Indirect Supervision**

Does not apply to Freshmen students

**H. Attendance Policy**

1. Allowable Absence for each Clinical Course:

RAD 181- 1 day

RAD 286- 1 day

RAD 282- 1 day

RAD 289- 1day

RAD 283- 1 day clinical & 1 day campus

RAD 290- 1 day clinical & 1 day campus

2. **Effect on the Final Course Grade:**

The above stated days are allowable. When you are absent above the time published in section A., *Your profile and affective domain forms will reflect the unprofessional behaviors. Please be advised that a doctor's note does NOT excuse an absence; it justifies the absence.*

Should the student believe that the absence was due to extenuating circumstances, then the student may present such circumstances to the CLINICAL COORDINATOR.

**Late events-** are not tolerated; a deduction of the exact number of minutes/hours will be deducted from the 1 personal day.

3. **Extended Absence Policy:**

This policy will stay the same. Each case is individually reviewed and decided upon.

However, absences of more than 10 days are considered excessive and will require that the student repeat the course.

**I. Course Professional Attire Policy**

Students are expected to adhere to the program's policy statements with respect to required professional behavior. Clinical Lab coats or the white clinical tunic tops are worn during summer-energized labs. For reasons of safety, NO open toed shoes, clogs, or sandals of any kind are to be worn in the lab. For further reasons of safety, Students must have their dosimeter or they will be sent home.

**J. Radiography Program Repeat Radiograph Policy**

Regardless of the student's level of competency, unsatisfactory radiographs may only be repeated under the DIRECT supervision of a licensed radiographer. Failure to comply, with this policy, is a serious violation of State of NJ and National policy. The result is Clinical suspension (for 2 weeks) and a written assignment for a first offense. Subsequent offenses will result in mandatory dismissal from the program.

### **K. General Student Information**

Please be advised that the policies and procedures indicated in this syllabus and handbook are subject to change. If any changes are made, students will be made aware electronically.

In order to pass this course, the student must achieve a 77% (C+) grade or higher in the clinical and campus components. The grading requirements are contained within this syllabus.

The Freshmen exit exam will be taken approximately one week prior to the close of the summer semester U (exact date TBA) and must be passed with a grade of 80% or higher. This exit exam accounts for 30% of the final course grade.

**Students will be afforded ONE (1) opportunity to retake the exam, should it be failed. However, a Subsequent attempt to pass the examination will have no effect on the first grade that the student received. The Subsequent attempt is only to satisfy the requirement of an 80% pass for progression/graduation in the program.**

After the second unsuccessful attempt the student will be required to retake the course (RAD 283) next summer. Grades are assigned according to the policy that is published in of the Radiography Student Handbook and Clinical Education Manual.

### **L. Summer 2016 Campus Schedule**

**Course of Study and Timelines (schedule is subject to change to accommodate student learning needs).**

#### **Week 1: Hand, Wrist, Forearm, Elbow & Humerus**

2. Overview of the anatomy
3. Projections/ Positions

#### **Week 2: Shoulder, Clavicle, Sternum, AC joints, SC joints**

2. overview of the anatomy
3. Projections/ Positions
4. quiz

#### **Week 3: Chest & Ribs**

2. overview of the anatomy
3. Projections/ Positions
4. quiz

#### **Week 4: Abdomen**

2. overview of the anatomy
3. Projections/ Positions
4. quiz

#### **Week 5: Foot, Ankle, Tibia/Fibula, Knee, Femur, Hip & Pelvis**

2. overview of the anatomy
3. Projections/ Positions (see addendum)
4. quiz

**Week 6: Lab practice**

**Week 7: Venipuncture (date may change due to instructor availability)**

2. overview of anatomy
3. Practice and simulation

**Week 8: Cervical spine, Thoracic spine**

2. overview of the anatomy
3. Projections/ Positions

**Week 9: Lumbar spine, Sacrum, Coccyx & Sacroiliac Joints**

**Week 10: begin review for Comprehensive Exam**

**Turn in Review packet for grading.**

**Week 11: Review for Comprehensive Exam**

**Week 12: Comprehensive EXIT Examination**

#### **M. Summer Campus Schedule (continued)**

##### **Laboratory Component: (Computer, Energized and Un-energized Labs)**

**Computer lab (S-352):** Students will utilize the computer software for the perfecting of anatomy and Image Production skill sets.

**Un-energized Labs:** this component will feature an in-depth review of freshmen anatomy, pathology, medical terminology and their radiographic relevance.

**Energized Lab:** this component will provide the student with a complete review of all positioning labs presented in the freshmen year.

In order to be properly prepared for the lab/review experience students must have:

- 1) Dosimeter
- 2) Clinical lab jacket or Tunic top
- 3) Bontrager book and workbook, Technique book/note book

**\*\*If a student does not have the above items they will be sent home with a marked absence**

**Semester Competency Requirements:**

|                         | RAD<br>182 | RAD<br>282 | RAD<br>283 | RAD<br>286 | RAD<br>289 | RAD<br>290 | TOTAL<br>S |
|-------------------------|------------|------------|------------|------------|------------|------------|------------|
| Patient care simulation | 6          | 0          | 0          | 0          | 0          | 0          | 6          |
| Mandatory cases         | 1          | 6          | 8          | 8          | 8          | 0          | 31         |
| Elective cases          | 0          | 2          | 3          | 5          | 5          | 0          | 15         |
| Continual cases         | 0          | 0          | 2          | 2          | 1          | 0          | 5          |
| Terminal cases          | 0          | 0          | 0          | 0          | 0          | 5+         | 5+         |
| Image Evals             | 2          | 3          | 5          | 5          | 5          | 5          | 25         |

**Grading Policy**

- A 92-100%
- B+ 89-91.9%
- B 83-88.9%
- C+ 80-82.9%
- C 77-79.9%
- D 76.9-70 D and Not recognized by the program
- F 69.9% and lower unsuccessful

**\*\*Please note that the Radiography Program does not recognize any grade lower than a 77%. The rationale for this policy is to align the grading system with that of the ARRT registry examination.**

**\*\*All Policies and timelines are approximate and subject to change. If a change is made then the students will be notified electronically.**

**\*\*Under NO circumstances is a student to go to the Program Director without first seeing the Clinical Coordinator.**

**RAD 283 Summer 2016**

I \_\_\_\_\_  
(print name)

**Understand the:**

- ✓ **Clinical policies**
- ✓ **Attendance policies**
- ✓ **Grading policies**
- ✓ **Summer ARRT activities**

**I will abide by the policies set forth in this document. If I have any additional questions or problematic areas, I will see the clinical education coordinator.**

**Under no circumstances is a student to go to the Program Director without first seeing the clinical coordinator.**

**Student signature** \_\_\_\_\_

**Date:** \_\_\_\_\_