Bergen Community College  
Division of Health Professions  
Radiography Program  
Syllabus and Course of Study for Lecture and Laboratory Instruction

Course Information:
Code: RAD 285, Sections 001 and 002  
Title: Radiography III  
Hours/week: 3 hours lecture and 3 hours laboratory experience  
Credits: 4.0  
Prerequisites:  
RAD 281: Radiography II  
RAD 283: Intermediate Radiography Clinical  
Corequisites:  
RAD 183: Radiographic Pathology  
RAD 184: Advanced Patient Care and Imaging Equipment  
RAD 286: Radiography Clinical III

Course Instructors:  
Professor Joseph A. Mamatz, M.A. Ed, R.T (facilitator and lecturer)  
Professor Maria Cerbone, M.A.S. R.T. (laboratory instructor)  
Professor Dorothy Celauro, M.A.S. R.T. (laboratory instructor)

Course Description:  
This course continues with the study of radiographic procedures, theory, and application of basic skull, advanced skull, an overview of the management and care of trauma, geriatric and pediatric patients. It course also includes a study of contrast agents typically utilized and their respective radiographic examinations. This course includes a component of faculty guided independent study of medical terminology.

Students Learning Objectives  
Upon completion of the assigned readings, lectures and laboratory experience, the must be able to:  

1. Identify and locate important anatomical structures of the cranium and face in diagrams, on models, and on radiographic images.  
2. Describe the various radiographic views of the cranium and face, including positioning and image criteria.  
3. Demonstrate increased proficiency in positioning through practice in laboratory sessions.  
4. Assess the quality of representative radiographs with regard to exposure, positioning, and anatomy.  
5. Evaluate the radiographic image and record the assessment.
6. Analyze the relationship of various radiographic concepts required for a technically correct image.

7. List and discuss the principles of mobile, trauma, and pediatric radiography.

8. List and describe the various contrast agents utilized in each contrast study with potential side effects/hazards.

9. Describe the radiographic views of contrast studies: Gastrointestinal series, Esophagram, Small bowel series, Barium Enema, IVP, and IVU.

10. Demonstrate proficiency in contrast study positioning through practice in the laboratory.

Course Textbooks

One:
Bontrager, K.L & Lampignano, J.P
Textbook of Radiographic Positioning and Related Anatomy
Mosby/ Elsevier, 7th edition. 2010
Workbook set to go with the textbook is mandatory. The workbook is to be brought to laboratory.

Two:
Leonard, Peggy V
Quick and Easy Medical Terminology
6th edition
978-1-4377-0838-7

Course Grading
The final course grade for RAD 285 is derived from the following:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>Lab Practical’s and Participation</td>
<td>25%</td>
</tr>
<tr>
<td>Quizzes/ Tests</td>
<td>25%</td>
</tr>
<tr>
<td>Midterm Exam</td>
<td>25%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>30%</td>
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</tbody>
</table>
Grade Assignment Protocol and Policy

Letter grades for each radiography course are assigned as follows:

A    92-100
B+   89-91
B    83-88
C+   80-82
C    75-79
F    74 and below

In this course, a combined average of 75% on the three combined (3) and final examination MUST be achieved; regardless of quizzes, tests, discussion, lab, activities, attendance or discussion.
Course Learning Modules

Module: Contrast Studies, Chapters 14, 15, and 16

Biliary, Esophageal & UGI
1. Anatomy
2. Body habitus
3. Procedure
4. Esophageal
5. UGI
6. Biliary

Lower GI
1) Anatomy
2) Procedures
3) Single Contrast BE
4) Double contrast BE

Urinary System, Procedures
1) IVU
2) Cystography
3) Voiding Cystourethrogram

Module: Cranial Imaging Skull Anatomy and Imaging; Chapter 12 and 13

1) Cranial and facial bones

Basic Skull
2) Morphology
3) Landmarks
4) Positioning application
5) Skull routine
6) Sella Turcica

Facial Bones and Sinuses
1) Radiography of the zygomatic
2) Optic Foramen
3) Mandible
TMJs and Paranasal Sinuses
1) Anatomy
2) Conditions & Set up
3) TMJ radiography
4) Paranasal sinuses

Module: Trauma, Mobile, and Surgical, Chapter 18

1) Digital considerations
2) Exposure indication
3) Radiation safety practices
4) Alternative imaging modalities
5) Equipment

Trauma Positioning
1) Chest
2) Bony thorax
3) Abdomen
4) Upper limb
5) Lower limb
6) Spine
7) Skull

Surgical
1) Sterile and non-sterile
2) Attire
3) Asepsis
4) Procedural

Special Populations
1) Pediatric patients
2) Geriatric patient
3) Corpulent patient
4) Challenging patients, issues, & strategies
5) Intellectually disabled
Laboratory Modules
Below is a template. The course laboratory instructors may adjust this template.
The Bontrager textbook and workbook MUST be brought to each lab session.
The medical term assignments are independent and will be tested in lab.
Any student who is unprepared in any way for lab will be dismissed for the day.

Gross radiographic anatomy and cross sectional anatomy.

Week 1/2: Upper GI
CT imaging

Weeks 3/4: Small Bowels, Barium Enema

Weeks 5/6: Urological

Week 7: Practical Exam 1

Week 8: Skull anatomy and positioning lines

Weeks 9/10: Skull Imaging
CT imaging

Weeks 7/8: Facial bones and orbits

Weeks 9/10: Sinuses and TM joints

Weeks 11: Mandible
CT imaging

Week 12: Practical Exam II

Week 13: Special Populations

Week 14: OR, Mobile studies

Week 15: Practicum Exam III

The laboratory instructional schedule may be modified by Professors Cerbone and Celauro.
Course Policies (Important)

Notice of Changes Policy

The student is apprised that this document is subject to change. When any change is made the instructor will notify you in class or electronically.

Final Examination Policy

In order to pass this course, the student must acquire a 75% average on the final examination and 3 tests together. In the event the student fails to do so, the grade assigned for the course would be an F grade, regardless of the grades acquired on any other assessment used in this course.

Attendance Accountability Policy

There are NO tests or examination. You are expected to be present and on time when an assessment is given. The student must allow for travel time and issues that might arise.

- Lateness for an assessment is subject to an automatic -10 point deduction from the assessment when it is scored.
- -2 points for each tardy event
- -2 points for each unexcused early departure
- -3 points for each unexcused absence

A medical doctor’s note does NOT excuse the absence; it just provides the reason for the absence. Medical notes need not provide sensitive personal information.

Web Enhancement

Students are expected to act in a professional manner at all times while in class, lab and the clinic. Netiquette is to be used for all responses in written documents on Moodleroom. Students are expected to read all announcements and email every day to keep abreast.

Attendance Policy

Extenuating circumstance if this is the case the MUST be discussed with the instructor. The rationale for our attendance and progression policies is to help you achieve success with the course and clinical performance. Absences and consistent tardiness affects course and clinical performance. See above policy.
Electronic Devices

- I-pads and laptops are to be used for educational purposes only while in class.
- Cell phones, i-phones are not to be used in the classroom.
- Assessment tools are not to be photographed under any circumstance.
- Materials and equipment may not be photographed without permission of Bergen Community College officials.
- ANY violation of this policy will be brought to the Deans of Health Professions and Judicial Affairs.

THE STUDENT IS ADVISED THAT A FINAL GRADE OF 75% OR HIGHER IS NEEDED TO PASS THIS COURSE. IN ADDITION, THE INFORMATION ON THIS SYLLABUS IS SUBJECT TO CHANGE.
Agreement Sheet

Print Name: ___________________

Sign your name: ______________________________ Date: _____________________

By writing your initials below, I have read and agree to comply with the following policies:

**Notice of Changes Policy _____ (initial)**

The student is apprised that this document is subject to change. When any change is made the instructor will notify you in class or electronically.

**Final Examination Policy _____ (initial)**

In order to pass this course, the student must acquire a 75% average on the final examination and 3 tests together. In the event the student fails to do so, the grade assigned for the course would be an F grade, regardless of the grades acquired on any other assessment used in this course.

**Attendance Accountability Policy _____ (initial)**

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_____ (initial) THE STUDENT IS ADVISED THAT A FINAL GRADE OF 77% OR HIGHER IS NEEDED TO PASS THIS COURSE. IN ADDITION, THE INFORMATION ON THIS SYLLABUS IS SUBJECT TO CHANGE.

__________________________________________
Signature