

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

A. Course Information

Code: RAD 285-Radiography III (001 and 002)
Hours/week: 3 hours lecture and 3 hours laboratory experience
Credits: 4.0 (3 lecture and 3 laboratory)
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

B. 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. (R) (CT) (laboratory instructor)

C. 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.

D. Philosophy

The primary responsibility of the course instructor is to facilitate the learning process. It is the students' responsibility to be present, punctual and attentive. The assignments are published on this document. The instructor will not disrespect to him, faculties, and other students. It is your responsibility to be active in the learning process.

Medical Terminology is an independent course of study. You will be quizzed on a regular basis. This course is intense. You must develop cognition and practical application skills with the words and their application to practice.

E. Students Learning Objectives

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

- Identify and locate important anatomical structures of the cranium and face in diagrams, on models, and on radiographic images.
- Describe the various radiographic views of the cranium and face, including positioning and image criteria.
- Demonstrate increased proficiency in positioning through practice in laboratory sessions.

- Assess the quality of representative radiographs with regard to exposure, positioning, and anatomy.
- Evaluate the radiographic image and record the assessment.
- Analyze the relationship of various radiographic concepts required for a technically correct image.
- List and discuss the principles of mobile, trauma, and pediatric radiography.
- List and describe the various contrast agents utilized in each contrast study with potential side effects/hazards.
- Describe the radiographic views of contrast studies: Gastrointestinal series, Esophagram, Small bowel series, Barium Enema, IVP, gallbladder, and IVU.
- Demonstrate proficiency in contrast study positioning through practice in the laboratory.

F. Course Textbooks

Authors: Bontrager, K.L & Lampignano, J.P
 Textbook: Textbook of Radiographic Positioning and Related Anatomy
 Publisher: Mosby/ Elsevier
 Edition: 7th edition.
 Year: 2010

Workbook set to go with the textbook is mandatory. The workbook **MUST** to be brought to laboratory to the laboratory sessions at all times.

Course Content

- Anatomy of the skull and facial bones
- Basic Skull
- Sella turcica
- Facial bones
- Paranasal sinuses
- Nasal bones
- TMJ
- Optic Foramen
- Trauma Imaging
- Geriatric, pediatric and special needs

G. Course Grading

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

Exam 1	15 points
Exam 2	15 points
Midterm Exam	20 points
Final Exam	25 points
Laboratory	<u>25 points</u>
	100 points

A final grade of 77% is the minimal cutoff course for passing the course. You cannot progress to competency until academic proficiency is archived (passing the tests).

H. Competency Order

- Lecture and laboratory instruction.
- Laboratory proficiency.
- A Minimum of two Demonstrations on a patient.
- Competency

I. Weekly Lecture Subject Matter

Week 1:

- Orientation to the course.
- Explanation of the course syllabus and the necessity of the laboratory.
- Explanation of the “elective” cases
- Esophagus and stomach Anatomy.
- Barium sulfate contrast medium; high or low density.
- Contrast Esophagram and modified contrast swallow.

Week 2:

- Esophagus and stomach Anatomy.
- Pathologies of the esophagus.
- Contrast agent and alternative agents.
- Esophagus radiography- modified and contrast Esophagram.

Week 3:

- Test 1
- Indications and contraindications of the GI and GB.
- GI series; double and single contrast methods.
- Gallbladder anatomy and procedure.

Week 4:

- Anatomy and physiology of the small intestines.
- Pathologies of the small intestines.
- Indications and contraindications
- Small intestines radiography
- Variations- enteroclysis procedure.

Week 5:

- Anatomy and physiology of the large intestines.
- Pathologies of the large intestines.
- Contrast enema; single and double contrast methods.
- Indications and contraindications

Week 6:

- Midterm Examination.

Week 7:

- Anatomy of the cranium
- Morphology
- Positioning lines
- Sutures
- Positioning aids
- Techniques and modifications
- Radiation safety measures
- Digital imaging application

Week 8:

- Basic skull radiography
- Indications
- Set up- positioning lines
- Modifications
- Technique

Week 9:

- Test 2
- Basic skull radiography
- Indications
- Set up- positioning lines
- Modifications
- Technique

Week 10:

- Facial Bones Radiography
- Indications
- Set up- positioning lines
- Modifications
- Technique

Week 11:

- Orbital and TMJ radiography
- Indications
- Set up- positioning lines
- Modifications

- Technique

Week 12:

- Paranasal sinuses radiography
- Indications
- Set up- positioning lines
- Modifications
- Technique

Week 13:

- Mandible radiography
- Indications
- Set up- positioning lines
- Modifications
- Technique

Week 14:

- Patient populations; geriatric, newborns, obese, pediatric, and special needs.
- Modifications
- Technique variations
- Managing the diversity
- Review for the final Examination

Week 15:

- Course Comprehensive Final Exam

Point Deductions for the classroom and laboratory

-2 for late arrivals. There is no grace period. Late arrivals are distracting to the instructor and to the class. As a healthcare practitioner, you are expected to arrive on time.

-2 for early departure from lab or not coming back.

-3 for each absence. The classroom is integral to learning. If you fail to attend, you fail to acquire the information from the class professor,

***The laboratory instructional schedule may be modified by Professors Cerbone and Celauro

Assignments

Assignments are posted to Moodle room and your email. This assures that all students receive the exact information equitably in a less confusing manner.

Course Outcome Policy (106)

The minimal passing grade for all Radiography Courses is 77% (C+). Numerical final grade averages less than 77% is unsatisfactory and requires the course to be repeated. If any two radiography courses are failed at any time during the 2-

Course Attendance Policy (108)

Students are to attend all lecture and laboratory sessions. The student is subject to point deductions time, lateness, leaving early or absence.

Electronic Device and Cellular Phone Usage Policy (115)

The use of cellular phones/electronic devices in the classroom is distracting to the instructor and other students and therefore prohibited during all class and clinical sessions. The use of cell phones for recording or calculating is prohibited in both the classroom and clinical education center. Once entering the classroom and or clinical education center, cell phones MUST be turned off and placed in a basket in the front of the classroom. No recording or photographing of tests or any materials.

Academic Dishonesty Policy (123)

The radiography program has a zero tolerance policy regarding issues related to academic dishonesty. The program follows the standard to uphold academic integrity and follows the protocol as set forth in the Bergen Community College Catalog. Students will receive a zero grade (F). This will be factored into whatever the weight of the quiz, test, or examination that is published on the course syllabus. Refer to the policy in the BCC Catalog regarding Academic Integrity & Consequences. Keep your behaviors exemplary and above reproach. Do not respond to anyone who tries to disseminate "quasi unscrupulous material"

No test, quiz, or examination is to be printed or copied in any form. Students who compromise this policy will receive a zero grade.

The program follows the policies and procedure that are related to academic integrity of Bergen Community College.

Integrity Disclaimer (1)

An instructor may establish other guidelines regarding academic integrity consistent with the College policy

Grading Student Responsibilities (2)

Students are responsible *for their individual academic progress and standing*, for preparing and participating in those classes in which they are enrolled, and for attaining the best possible academic

record. The instructors assign a grade based on a composite of course elements, which represents an evaluation of performance, scholarship, and competence of the student.

Changes Policy (3)

- Students will informed electronically of any changes made in the policies, content, or assessment.
- Students **MUST** read their emails every day. The Program Director will not entertain issues of **NOT** receiving relevant course information.

Student Acknowledgement Agreement of Course Requirements

RAD 285

Print:

_____ (Last name)

_____ (First name)

Initial:

I have read the syllabus in its entirety.

I agree to abide by the policies set forth in this syllabus.

I am aware that, if any policy (ies) is (are) infringed, action will be taken by the instructor and/ or the program officials.

I am aware the excessive absence from lecture and/ or lab will negatively affect my grade and possibly outcomes on written assessment or practica with deductions for lateness, early departure and absence.

I am aware that power points will be displayed in lecture and that I am required to take notes, if I so desire to acquire the information.

I am aware that this course will use multi-methods of instruction.

I am aware of the use of electronics policy.

I am aware of attendance and lateness policy.

I acknowledge and agree to abide with the above statements, and polices of the radiography program and Bergen Community College as is stated within the handbook and college e-catalog.

Your signature

Date