

**Bergen Community College
Division of Health Professions
Department of Radiography**

RAD 281 – Radiography II

Basic Information About Course

Course Typically Offered: Spring
Semester and Year: Spring, Year 1
Course and Section Number: RAD 281
Locations: HP-124

Course Description

This course is the continuation in the study of radiographic procedures. The theory and application of positioning of the lower limb, spinal column, and an introduction to the contrast studies will be explored. Principles of positioning techniques, exposure, and critique will be explored in the laboratory.

Credits – 4 CR, Lecture [3.00], Laboratory [3.00]
Prerequisites - RAD 180 Introduction to Radiography
RAD 181 Radiography I
RAD 182 Radiography Practicum I

Co Requisites - RAD 276 Principles of Imaging Equipment
RAD 282 Radiography Practicum II
BIO 209 Anatomy and Physiology II

Student Learning Objectives: As a result of meeting the requirements in this course, students will be able to:

1. Identify, explain, and discuss various positioning standards including anatomy and physiology.
2. Perform basic radiographic maneuvers including equipment set-up, patient transfer, and patient transport.
3. Educate a patient before a procedure on the risks and benefits of radiographic imaging.
4. Produce, evaluate, and discuss diagnostic medical images that are provided to physicians for diagnosis.

5. Demonstrate proficiency in patient care assessment in a simulated, laboratory environment and how to apply those skills in a clinical setting.

Means of Assessment

Students in this course will:

1. Complete two tests in addition to a midterm and final examination in class.
2. Demonstrate their understanding of material through discussion.
3. Participate in laboratory exercises that reinforce their knowledge of anatomy and positioning.

Course Content

Radiography II continues to introduce the student to the study of radiography and the ethical considerations of this medical field. The theory and application of positioning, radiation protection techniques, and radiographic exposure, along with associated image critiques and laboratory experiments are covered in this course.

Course Texts and/or Other Study Materials

Lampignano, John & Kendrick, Leslie. *Bontrager's Textbook of Radiographic Positioning and Related Anatomy 10th Edition*. Elsevier, 2021. ISBN 978-0-323-65367-1

Lampignano, John & Kendrick, Leslie. *Workbook for Bontrager's Textbook of Radiographic Positioning and Related Anatomy 10th Edition*. Elsevier, 2021. ISBN 9780323797931

Lampignano, John & Kendrick, Leslie. *Bontrager's Textbook of Radiographic Positioning and Related Anatomy 10th Edition*. Elsevier, 2021. ISBN 9780323797900

Research, Writing, and/or Examination Requirement(s)

Quizzes, Short Writing Assignments

Students may be given short writing assignments or quizzes to complete. Timelines for completion will be determined by the course instructor.

Midterm and Final

The midterm and final will be objective, computerized tests that demonstrate the student's ability to identify and apply course material. Students will be expected to evaluate various scenarios and determine the appropriate response.

Grading Policy

Recommended Grade Structure

Written assignment and participation grading will be defined by the instructor.

The Radiography program grading scale is outlined in the program handbook available here <https://bergen.edu/radiography/more-info/>

Recommended Policy for Late Assignments:

To be determined by the instructor.

Attendance Policy

BCC Attendance Policy:

All students are expected to attend every scheduled meeting of each course in which they are registered. Attendance and lateness policies and sanctions are to be determined by the instructor for each section of each course. These will be established in writing on the individual course outline. Attendance will be kept by the instructor for administrative and counseling purposes.

Attendance Policy for this Course.

To be determined by the instructor.

Other College, Divisional, and/or Departmental Policy Statements

Accommodations for Disabilities:

Bergen Community College aims to create inclusive learning environments where all students have maximum opportunities for success. Any student who feels he or she may need accommodation based on the impact of a disability should contact the Office of Specialized Services at 201-612-5269 or via email at ossinfo@bergen.edu for assistance.

Statement on Mental Health and Wellbeing

Mental health concerns or stressful events may lead to diminished academic performance or reduce a student's ability to participate in daily activities. Bergen Community College has licensed Personal Counselors available to assist you with addressing these and other concerns you may be experiencing.

You can learn more about the confidential mental health services available on campus via the Health and Wellness Center at www.bergen.edu/personalcounseling

BCC Statement on Plagiarism: Plagiarism is a form of academic dishonesty and may be a violation of U.S. Copyright laws. Plagiarism is defined as taking someone else's words, opinions, or ideas and claiming them as one's own.

Examples of plagiarism include instances in which a student:

- knowingly represents the work of others as his/her own
- represents previously completed academic work as current
- submits a paper or other academic work for credit which includes words, ideas, data or creative work of others without acknowledging the source
- uses another author's exact words without enclosing them in quotation marks and citing them appropriately
- paraphrases or summarizes another author's words without citing the source appropriately

Instructors may define their own policies regarding plagiarism. See the Academic Regulations section of the college catalog for college policies.

Available Online and On-Campus Resources

Office of Testing and Tutoring at the Meadowlands LYN 202

<https://bergen.edu/tutoring/tutoring-testing-center-at-the-meadowlands/>

The Writing Center and Tutoring Center L-125 <https://bergen.edu/tutoring/writing-center/>

OWL (Online Writing Lab) <http://www.owl.english.perdue>

The English Language Resource Center (ELRC) C-212

<https://bergen.edu/tutoring/english-language-resource-center/>

The Library <https://bergen.edu/library/>

MLA Formatting Guides <https://bergen.libguides.com/citationguides/mla>

Library Research Guides <https://bergen.libguides.com/index.php?b=s>

Free Time Computer Labs <https://bergen.edu/technology-assistance/computer-lab-availability/>

The Center for Student A-118 (Academic, Career, International, and Transfer Counselors)

<https://bergen.edu/center-for-student-success/>

Academic Support <https://bergen.edu/academics/pathway-scholars-program/academic-support/>

Personal Counseling HS-100

<https://bergen.edu/health-wellness-and-personal-counseling/personalcounseling/>

Sample Course Outline

| Week | Topic/Activity |
|------|---|
| 1 | Orientation & Review of Radiography I |
| 2 | Anatomy and Positioning of Toes, Foot, and Calcaneus |
| 3 | Anatomy and Positioning of Ankle and Tibia/Fibula |
| 4 | Anatomy and Positioning of Knee, Patella, and InterCondylar Fossa |
| 5 | Exam 1 |
| 6 | Anatomy and Positioning of Femur, Hip, and Pelvis |
| 7 | Midterm |
| 8 | Anatomy and Positioning Cervical and Thoracic Spine |
| 9 | Anatomy and Positioning of Lumbar, Sacrum, and Coccyx |
| 10 | Test 2 |
| 11 | Introduction to Contrast Agents |
| 12 | Introduction to GenitoUrinary Imaging |
| 13 | Introduction to GastroIntestinal Imaging |
| 14 | Review |
| 15 | Final Exam |

Important dates for the semester can be found at
<https://bergen.edu/events/category/academic-calendar/list/>

Note to Students: This Course Outline and Calendar is tentative and subject to change, depending upon the progress of the class.

Date of Most Recent Syllabus Revision: 01/2023