RADIOGRAPHY

**Code:** RAD-123  
**Title:** Clinical Procedures III

**Division:** Science Math and Technology

**Course Description:** This course focuses on students learning to perform radiographic procedures of the spine and skull. Hands-on instruction in the proper use of fixed and mobile radiographic equipment and application of theoretical principles are demonstrated in a laboratory setting. Subsequent hands-on experience is provided under the direct supervision of qualified radiographers. Achieved competency is measured and pertinent initial and continual clinical competency is performed.

**Prerequisite:** RAD 107, RAD 122

**Corequisite:** BIO 114, BIO 115

**Credits:** 6 cr.

**Required Materials (Check Bookstore for Latest Edition):**
Click on the bookstore for the campus which you are attending each class.
- Pemberton Campus Bookstore
- Mount Laurel Campus Bookstore

**Course Learning Outcomes:**
1. Identify and explain related terminology and body planes used in radiographic procedures.
2. Identify bony anatomical structures and relevant topographic landmarks
3. Identify, explain and demonstrate all projections for the positioning
4. Demonstrate knowledge and understanding of radiographic positioning through competent clinical application.
5. Adapt general procedural considerations to specific clinical settings.
6. Apply appropriate methods of radiation protection for the patient and all personnel during radiographic procedures.
7. Discuss equipment and supplies necessary to complete radiographic procedures.
8. Identify anatomical structures demonstrated on the finished radiograph.
9. Evaluate the finished radiograph for proper positioning skills, exposure factors, evidence of radiation protection, film identification and overall image quality.

10. Identify any errors that have been made in the process of producing the radiograph as based on the previous goals.

11. Recognize normal radiographic anatomy.

12. Recognize pathogenic processes that appear on the finished radiograph.

   for all projections of the cervical, thoracic, lumbar, sacrum, coccygeal and skull proficiency of 79%.

**GENERAL EDUCATION OUTCOMES IN THIS COURSE:**

| Written and Oral Communication: Communication | * Students will logically and persuasively support their points of view or findings. |
| Quantitative Knowledge and Skills: Mathematics | * Students will communicate meaningfully with a chosen audience while demonstrating critical thought. |
| Scientific Knowledge and Reasoning: Science | * Students will analyze data to solve problems utilizing appropriate mathematical concepts. |
| Society and Human Behavior: Social Science | * Students will logically solve problems using the appropriate mathematical technique. |
| Technological Competency or Information Literacy: Technology | * Students will demonstrate critical thinking skills in the analysis of scientific data. |
|                      | * Students will demonstrate a general knowledge of political, social and economic concepts and systems and their effects on society. |
|                      | * Students will demonstrate competency in office productivity tools appropriate to continuing their education. |

**TOPICAL OUTLINE FOR THE COURSE:**

Intro to Radiographic Procedures 123
Review Cranial Anatomy Review material covered in RAD 122 in preparation for competency testing.
Skull Anatomy
Skull and Sella Positioning
Facial Bone Anatomy
Facial Bone Positioning
Nasal Bone, Arches, Orbits Positioning
Mandible, TM Jts, Panorex
Sinus, Mastoid Anatomy
Sinus, Mastoid Positioning
C-Spine Anatomy C-Spine Positioning
T-Spine Anatomy T-Spine Positioning
Lumbar, Sacrum, Coccyx Anatomy
Lumbar, Scoliosis Positioning
Spinal Fusion, Sacrum, Coccyx Positioning

**COURSE ACTIVITIES:**

- Course activities vary from course to course and instructor to instructor. Below is a listing of some of the activities students can anticipate in this course:

- **Writing assignments:** students will analyze current issues in the field using current articles from the popular press as well as library research including electronic resources databases.

- **Speaking assignments:** students will present research individually or in groups using current technology to support the presentation (e.g., PowerPoint presentation); students will participate in discussions and debates related to the topics in the lessons. Discussions may also focus on cross-cultural and legal-ethical dilemmas as they relate to the course content.

- **Simulation activities:** Trends and issues will analyzed for their ethical as well as social or legal significance. Students might role-play common situations for classmates to analyze. Current news articles may be used to generate discussion.

- **Case Studies:** Complex situations and scenarios will be analyzed in cooperative group settings or as homework assignments.

- **Lectures:** This format will include question and answer sessions to provide interactivity between students and instructor.

- **Speakers:** Representatives from various related fields may be invited to speak.

- **Videos:** Related topics will provide impetus for discussion.

**EDUCATIONAL TECHNOLOGY:**

Burlington County College advocates a technology enhanced teaching and learning environment. Advanced technological tools may be used in any course section to facilitate instruction. Many of our sections are web-enhanced, which means that some of your work will be submitted or completed online. Web enhancements may include online materials, grade books, testing and quizzes and assignment submission. Many students enjoy the flexibility and convenience that these online enhancements have provided, however if you have concerns about the technology involved, please speak to your instructor immediately.
**STUDENT EVALUATIONS:**

The student will be evaluated on the degree to which student learning outcomes are achieved. A variety of methods may be used such as tests, quizzes, class participation, projects, homework assignments, presentations, etc.

See individual instructor’s course handouts for grading system and criteria (point value for each assessment component in course, e.g. tests, papers, presentations, attendance etc.), number of papers and examinations required in the course, and testing policy including make ups and/or retests.

**GRADING STANDARD:**

A  Mastery of essential elements and related concepts, plus demonstrated excellence or originality.
B+ Mastery of essential elements and related concepts, showing higher level understanding.
B  Mastery of essential elements and related concepts.
C+ Above average knowledge of essential elements and related concepts.
C  Acceptable knowledge of essential elements and related concepts.
D  Minimal knowledge of related concepts.
F  Unsatisfactory progress. This grade may also be assigned in cases of academic misconduct, such as cheating or plagiarism, and/or excessive absences.

For other grades, see the current BCC catalog.

**COLLEGE POLICIES:**

The current college catalog and student handbook are important documents for understanding your rights and responsibilities as a student in the BCC classroom. Please read your catalog and handbook as they supplement this syllabus, particularly for information regarding:

- Academic Integrity Code
- Student Conduct Code
- Student Grade Appeal Process

**NOTIFICATION:**

Burlington County College offers reasonable accommodations and/or services to persons with disabilities. The Student Support Services Department offers comprehensive services to all students with any form of disability which hinders their academic success as long as the student provides appropriate documentation. Contact Student Support Services at Extension 1208 at (609) 894-9311 or visit the website at:

http://www.bcc.edu/pages/209.asp
**ADDITIONAL SUPPORT/LABS:**

BCC provides academic advising, student support personal counseling, transfer advising, and special accommodations for individuals with disabilities free to all students through the Division of Student Services. For more information about any of these services, visit the Parker Center on the Pemberton Campus or Laurel Hall on the Mt. Laurel Campus, or call (609) 894-9311 or (856) 222-9311, then dial the desired extension:

- Ext. 1557 Academic Advisement and Counseling
- Ext. 1803 Student Support Services
- Ext. 2737 Transfer Center

Or visit the following websites:

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<td><a href="http://www.bcc.edu/pages/185.asp">http://www.bcc.edu/pages/185.asp</a></td>
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BCC offers a free tutoring for all currently enrolled students. For more information regarding The Tutoring Center call Extension 1495 at (609) 894-9311 or (856) 222-9311 or visit the Tutoring Center Website at [http://staff.bcc.edu/tutoring/](http://staff.bcc.edu/tutoring/)

Annual Review 2012-2013

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