# Washtenaw Community College Comprehensive Report

## RAD 123 Radiographic Positioning II
## Effective Term: Spring/Summer 2013

### Course Cover

**Division:** Math, Science and Health
**Department:** Allied Health
**Discipline:** Radiography
**Course Number:** 123
**Org Number:** 15600
**Full Course Title:** Radiographic Positioning II
**Transcript Title:** Radiographic Positioning II
**Is Consultation with other department(s) required:** No
**Publish in the Following:** College Catalog , Time Schedule , Web Page
**Reason for Submission:** Course Change
**Change Information:**
**Consultation with all departments affected by this course is required.**
**Credit hours**
**Total Contact Hours**
**Objectives/Evaluation**
**Rationale:** Change course credit hours from 3 credits to 2 credits to meet the new defined minimums for credit hours. RAD 123 has 15 lecture hours and 45 lab hours.
**Proposed Start Semester:** Spring/Summer 2014
**Course Description:** This course presents the theories and practices that are utilized in the clinical setting to produce diagnostic radiographs of the lower extremity, vertebral column and bony thorax. Radiograph terminology, patient preparation, patient positioning, proper manipulation of radiographic equipment, radiation safety practices, image evaluation, professional standards and medical ethics will be discussed and practiced in the laboratory setting.

### Course Credit Hours

**Variable hours:** Yes
**Credits:** 0 – 2
**Lecture Hours: Instructor:** 15 **Student:** 15
**Lab: Instructor:** 45 **Student:** 45
**Clinical: Instructor:** 0 **Student:** 0

**Total Contact Hours: Instructor:** 0 to 60 **Student:** 0 to 60
**Repeatable for Credit:** NO
**Grading Methods:** Letter Grades
Audit
**Are lectures, labs, or clinicals offered as separate sections?:** YES (separate sections)

### College-Level Reading and Writing

College-level Reading & Writing

### College-Level Math

### Requisites

**Prerequisite**
RAD 112 minimum grade "C-"
and

**Prerequisite**
RAD 120 minimum grade "C-"; may enroll concurrently

## General Education

## Request Course Transfer

**Proposed For:**

## Student Learning Outcomes

1. Perform radiographic procedures of the lower extremity, vertebral column and bony thorax in accordance with current standards.
   **Assessment 1**
   **Assessment Tool:** departmental RAD 123 practical exam
   **Assessment Date:** Winter 2012
   **Assessment Cycle:** Every Three Years
   **Course section(s)/other population:** all students
   **Number students to be assessed:** ~35
   **How the assessment will be scored:** A rubric for the RAD 123 practical exam will be used.
   **Standard of success to be used for this assessment:** 90% of the students will achieve a 3 (good) or above rating
   **Who will score and analyze the data:** A Radiography Program faculty member.

2. Critically analyze radiographs of the lower extremity, vertebral column and bony thorax for patient positioning, exposure technique and image processing errors.
   **Assessment 1**
   **Assessment Tool:** departmental RAD 123 practical exam
   **Assessment Date:** Winter 2012
   **Assessment Cycle:** Every Three Years
   **Course section(s)/other population:** all students
   **Number students to be assessed:** ~35
   **How the assessment will be scored:** A rubric for the RAD 123 practical exam will be used.
   **Standard of success to be used for this assessment:** 90% of the students will achieve a 3 (good) or above rating
   **Who will score and analyze the data:** A Radiography Program faculty member.

3. Apply the principles of ALARA when obtaining diagnostic radiographs of the lower extremity, vertebral column and bony thorax.
   **Assessment 1**
   **Assessment Tool:** departmental RAD 123 practical exam
   **Assessment Date:** Winter 2012
   **Assessment Cycle:** Every Three Years
   **Course section(s)/other population:** all students
   **Number students to be assessed:** ~35
   **How the assessment will be scored:** A rubric for the RAD 123 practical exam will be used.
   **Standard of success to be used for this assessment:** 90% of the students will achieve a 3 (good) or above rating
   **Who will score and analyze the data:** A Radiography Program faculty member.

4. Communicate clearly, effectively and in a therapeutic manner when producing diagnostic radiographs of the lower extremity, vertebral column and bony thorax.
   **Assessment 1**
   **Assessment Tool:** departmental RAD 123 practical exam
   **Assessment Date:** Winter 2012

**Assessment Cycle:** Every Three Years
**Course section(s)/other population:** all students
**Number students to be assessed:** ~35
**How the assessment will be scored:** A rubric for the RAD 123 practical exam will be used.
**Standard of success to be used for this assessment:** 90% of the students will achieve a 3 (good) or above rating
**Who will score and analyze the data:** A Radiography Program faculty member.

## Course Objectives

1. Produce optimum radiographs of the lower extremity, vertebral column, and bony thorax using the patient mannequin, x-ray unit and ancillary devices.
   **Matched Outcomes**
2. Critique radiographs for patient positioning, exposure technique and image processing errors.
   **Matched Outcomes**
3. Identify normal anatomy and anatomical variants of the lower extremity, vertebral column and bony thorax.
   **Matched Outcomes**
4. Practice radiation safety in accordance with currently accepted guidelines.
   **Matched Outcomes**
5. Communicate the protocols for obtaining optimal radiographs of the lower extremity, vertebral column and bony thorax.
   **Matched Outcomes**

## New Resources for Course

## Course Textbooks/Resources

Textbooks
Bontrager, Kenneth. *Textbook of Radiolgraphic Positioning & Related Anatomy*, 7th ed. Elsevier, 2009
Bontrager, Kenneth. *Radiographic Positioning & Related Anatomy Workbook & Laboratory Manual*, 7th ed. Elsevier, 2009
Martensen, Kathy. *Radiographic Image Analysis*, 2nd ed. Elsevier, 2006
Manuals
Periodicals
Software

## Equipment/Facilities

Level III classroom
Testing Center
Other: Radiography lab (OE 121)

| Reviewer | Action | Date |
|---|---|---|
| **Faculty Preparer:** | | |
| *Connie Foster* | *Faculty Preparer* | *Oct 16, 2012* |
| **Department Chair/Area Director:** | | |
| *Connie Foster* | *Recommend Approval* | *Oct 16, 2012* |
| **Dean:** | | |
| *Martha Showalter* | *Recommend Approval* | *Nov 01, 2012* |
| **Vice President for Instruction:** | | |
| *Stuart Blacklaw* | *Approve* | *Nov 14, 2012* |