

**Course Objectives/Course Outline
Spokane Community College**

Course Title: Clinical Education IV

Prefix and Course Number: RAD 146

Course Learning Outcomes:

By the end of this course, a student should be able to:

- Describe the necessity of radiographic examinations as they relate to identifying the disease process
- Select the correct exposure combination based on age, atrophy, disease process, and contrast media
- Demonstrate the use of appropriate film size, field view, combinations of screens, film speed and grids
- Demonstrate proper shielding and marker placement
- List basic positioning procedures for each exam
- Identify positioning landmarks and positional corrections
- Identify the anatomy and anatomical anomalies on radiographs
- Describe influencing factors of radiographic quality (density, contrast resolution, distortion and magnification)

Course Outline:

- I. Advanced Courses
 - A. Radiographic Examinations
 - B. Exposure Factors
- II. Choosing Appropriate Equipment
 - A. Film Size
 - B. Field View
 - C. Combination of Screens
 - D. Film Speed
- III. Proper Shielding and Marker Placements
- IV. Positioning Landmarks and Corrections
- V. Anatomy and Anatomical Anomalies
- VI. Radiographic Quality
 - A. Density
 - B. Contrast
 - C. Resolution
 - D. Magnification