



**Course Information**

<b>Course Title</b>	Intermediate Radiographic Procedures
<b>Course Prefix, Num. and Title</b>	RADR 2401 Intermediate Radiographic Procedures
<b>Division</b>	Allied Health
<b>Department</b>	Radiologic Technology
<b>Course Type</b>	WECM Course
<b>Course Catalog Description</b>	A continuation of the study of the proper manipulation of radiographic equipment, positioning and alignment of the anatomical structure and equipment, and evaluation of images for proper demonstration of anatomy. A minimum grade of "C" is required to pass this course.
<b>Pre-Requisites</b>	RADR 1409, 1411, and 1166 with a C or better.
<b>Co-Requisites</b>	None

**Semester Credit Hours**

<b>Total Semester Credit Hours (SCH): Lecture Hours:</b>	4:3:4
<b>Lab/Other Hours</b>	
<b>Equated Pay Hours</b>	5
<b>Lab/Other Hours Breakdown: Lab Hours</b>	4
<b>Lab/Other Hours Breakdown: Clinical Hours</b>	0
<b>Lab/Other Hours Breakdown: Practicum Hours</b>	0
<b>Other Hours Breakdown</b>	0

**Approval Signatures**

<b>Title</b>	<b>Signature</b>	<b>Date</b>
<b>Prepared by:</b>		
<b>Department Head:</b>		
<b>Division Chair:</b>		
<b>Dean/VPI:</b>		
<b>Approved by CIR:</b>		

# Additional Course Information

**Topical Outline:** Each offering of this course must include the following topics (be sure to include information regarding lab, practicum, and clinical or other non-lecture instruction).

1. C General Considerations
  - a. Evaluation of radiographic orders
    1. Patient Identification by two means
    2. Verification of procedures(s) ordered
    3. Review of clinical history
    4. Clinical History and patient assessment
      1. Role of the radiographer
      2. Questioning skills
      3. Chief complaint
      4. Allergy history
      5. Localization
      6. Chronology
      7. Severity
      8. Onset
      9. Aggravating or alleviating factors
      10. Associated manifestations
      11. Special Considerations
    5. Exam Sequencing
  - b. Room preparation
    1. Cleanliness, organization, appearance, and safety
    2. Necessary supplies and accessory equipment available
2. Patient Considerations
  - a. Establishment of rapport with patient
    1. Patient education
      1. Communication
      2. Common radiation safety issues and concerns
    2. Culture, ethnicity, and diversity
    3. Determination of pregnancy
  - b. Patient preparation
    1. Verification of appropriate dietary preparation
    2. Verification of appropriate medication preparation
    3. Appropriate disrobing and gowning
    4. Removal of items that may cause artifacts
  - c. Patient assistance
  - d. Patient monitoring
  - e. Patient dismissal
3. Positioning Considerations for Routine Radiographic Procedures
  - a. Patient instructions
  - b. Special considerations

1. Atypical conditions
  2. Mobile procedures
  3. Surgical procedures
  4. Trauma
  5. BMI
  6. Cultural awareness
  7. Claustrophobia
4. Positioning for the following studies
    - a. Lower extremity
      1. Femur
    - b. Pelvic Girdle
      1. Pelvis and Hip
    - c. Vertebral Column
      1. Cervical
      2. Thoracic
      3. Lumbar
      4. Sacrum
      5. Coccyx
      6. SI Joints
    - d. Abdomnal Viscera
      1. GI Upper
      2. GI Lower
      3. Urological Studies
5. Procedural Considerations for Contrast Studies
    - a. Patient education
      1. General procedure
      2. Patient prep
      3. Follow-up care
    - b. Equipment and material needed
    - c. General procedure and follow-up care
    - d. Patient and body part positioning
    - e. Structure and functions demonstrated
    - f. Positioning for GI studies
      1. Esophagus
      2. Swallowing dysfunctional study
      3. Upper GI series, single and double contrast
      4. Small bowel series
      5. Contrast enema, single and double
      6. Surgical Cholangiogram
      7. ERCP
    - g. Positioning for urological studies
      1. Cystography
      2. Cystourethography
      3. Intravenous urography
      4. Retrograde urography

## Course Learning Outcomes:

### Learning Outcomes – Upon successful completion of this course, students will:

Upon successful completion of this course, students will:

Manipulate equipment; perform intermediate level procedures in positioning; align anatomical structures and equipment; and evaluate images

### Methods of Assessment:

Written Unit Exam

Laboratory Unit Exams

Unit Image Critiques

## Required text(s), optional text(s) and/or materials to be supplied by the student:

Kenneth I. Bontrager and Barry T. Anthony, Textbook of Radiographic Positioning and Related Anatomy, The C. V. Mosby Company, and supplemental workbooks.

Supplemental reading: Phillip W. Ballinger and Eugene D. Frank, Merrill's Atlas of Radiographic Positions and Radiologic Procedures, The C. V. Mosby Company.

## Suggested Course Maximum:

18

## List any specific or physical requirements beyond a typical classroom required to teach the course.

The Radiology Classroom and Energized X-Ray Lab.

**Course Requirements/Grading System:** Describe any course specific requirements such as research papers or reading assignments and the generalized grading format for the course.

There will be a written test and a laboratory test following each unit. The lab will count (30%) and written exam (70%) for each unit for one grade per unit. The unit exams will count 75% of the grade. The course will end with a comprehensive written and lab final examination. The final exam will count 25% of the final grade.

92 – 100 = A

91 – 83 = B

82 – 75 = C

74.9 and below = F

## Curriculum Checklist:

- Administrative General Education Course** (from ACGM, but not in WCJC Core) – No additional documents needed.
- Administrative WCJC Core Course.** Attach the Core Curriculum Review Forms
  - Critical Thinking
  - Communication
  - Empirical & Quantitative Skills
  - Teamwork
  - Social Responsibility
  - Personal Responsibility

**WECM Course** -If needed, revise the Program SCANS Matrix and Competencies Checklist