**Purpose:** It is the intention of this Administrative-Master Syllabus to provide a general description of the course, outline the required elements of the course and to lay the foundation for course assessment for the improvement of student learning, as specified by the faculty of Wharton County Junior College, regardless of who teaches the course, the timeframe by which it is instructed, or the instructional method by which the course is delivered. It is not intended to restrict the manner by which an individual faculty member teaches the course but to be an administrative tool to aid in the improvement of instruction.

**Course Title** - Basic Radiographic Procedures  
**Course Prefix and Number** - RADR 1411  
**Department** - Radiologic Technology  
**Division** - Allied Health  
**Course Type:** (check one)  
- Academic General Education Course (from ACGM – but not in WCJC Core)  
- Academic WCJC Core Course  
- WECM course (This course is a Special Topics or Unique Needs Course: Y ☑ or N ☒)

**Semester Credit Hours # : Lecture Hours# : Lab/Other Hours #**  
4:3:4

**Equate Pay hours for course** - 5

**Course Catalog Description** - An introduction to radiographic positioning, terminology, the proper manipulation of equipment, positioning and alignment of the anatomical structure and equipment, and evaluation of images for proper demonstration of basic anatomy.

**Prerequisites/Co requisites** - Acceptance to Radiologic Technology Program

---

**Prepared by** Allyson Matheaus  
**Date** 02/07/2014

**Reviewed by Department Head** Sharla Walker  
**Date** 02/10/2014

**Accuracy Verified by Division Chair** Carol Derkowski  
**Date** 7/27/14

**Approved by Dean or Vice President of Instruction** Amy LaPan  
**Date** 6/30/2014
I. Topical Outline – Each offering of this course must include the following topics (be sure to include information regarding lab, practicum, clinical, or other non-lecture instruction):

I. Standard Terminology for Positioning and Projection

II. Positioning Terminology
   A. Lying Down
      1. Supine
      2. Prone
      3. Decubitus
      4. Recumbent

   B. Erect or Upright
      1. Anterior position
      2. Posterior position
      3. Oblique Position
         a. Anterior
            i. Left anterior oblique
            ii. Right anterior oblique
         b. Posterior
            i. Left posterior oblique
            ii. Right posterior oblique

   C. General planes

   D. Terminology for movement and direction

   E. Positioning Equipment

III. Routine Radiographic Procedures

   F. Chest
      1. PA upright
      2. Lateral upright
      3. AP lordotic
      4. AP Supine
      5. Lateral decubitus
      6. Anterior and Posterior Obliques

   G. Ribs
      1. AP and PA, above and below diaphragm
      2. Anterior and Posterior Obliques

   H. Abdomen
      1. AP supine
      2. AP upright
      3. Lateral decubitus
      4. Dorsal Decubitus
      5. Prone Abdomen
6. Lateral Abdomen
7. Acute Abdominal Series

I. Pelvic
1. AP Pelvis
2. AP pelvis, bilateral frog leg
3. AP pelvis, axial anterior pelvic bones (inlet, outlet)

J. Fingers
1. PA entire hand
2. PA finger only
3. Lateral
4. Oblique
5. AP thumb
6. Oblique thumb
7. Lateral thumb
8. PA stress thumb projection

K. Hand
1. PA
2. Lateral
3. Oblique
4. Bone Age

L. Wrist
1. PA
2. Oblique
3. Lateral
4. PA for Scaphoid
5. Carpal canal

M. Forearm
1. AP
2. Lateral

N. Elbow
1. AP
2. Lateral
3. External oblique
4. Internal oblique
5. AP partially flexed

O. Humerus
1. AP non-trauma
2. Lateral non-trauma

P. Shoulder
1. AP internal and external rotation
2. Inferosuperior axial, non-trauma
3. Posterior oblique (Grashey)
4. Tangential non-trauma
5. AP neutral trauma
6. Transthoracic lateral trauma
7. Scapular Y trauma

Q. Lumbar Spine
1. AP 
2. PA 
3. Lateral 
4. L5-S1 Spot 
5. Posterior Obliques 
6. Anterior Obliques 
7. AP L5-S1 30-35° cephalad 
8. AP right and left bending 
9. Lateral flexion and extension 

R. Scoliosis Series 
1. AP/PA scoliosis series 
2. Ferguson Method 

S. Thoracic Spine 
1. AP 
2. Lateral, breathing 
3. Lateral, expiration 

T. Cervical Spine 
1. AP angle cephalad 
2. AP open mouth 
3. Lateral 
4. Cross-table lateral 
5. Anterior obliques 
6. Posterior obliques 
7. Lateral swimmers 
8. Lateral flexion and extension 
9. AP dens (Fuchs) 
10. PA dens (Judd) 
11. AP wagging jaw 

U. Soft Tissue Neck 
1. AP upper Airway 
2. Lateral upper airway 
3. Soft Tissue/Foreign Body 

II. Course Learning Outcomes 

<table>
<thead>
<tr>
<th>Learning Outcomes</th>
<th>Methods of Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upon successful completion of this course, students will:</td>
<td>Written Unit Exam</td>
</tr>
<tr>
<td>Define radiographic positioning terms; manipulate equipment; perform basic</td>
<td>Laboratory Unit Exams</td>
</tr>
<tr>
<td>level procedures in positioning; align anatomical structures and equipment; and</td>
<td>Unit Image Critiques</td>
</tr>
<tr>
<td>evaluate images.</td>
<td></td>
</tr>
</tbody>
</table>

III. Required Text(s), Optional Text(s) and/or Materials to be Supplied by Student.


IV. Suggested Course Maximum - 18

V. List any specific spatial or physical requirements beyond a typical classroom required to teach the course.
Radiology Classroom and energized x-ray lab.

VI. Course Requirements/Grading System – Describe any course specific requirements such as research papers or reading assignments and the generalized grading format for the course
A. End-of-unit exams (75%)
B. Comprehensive final (25%)
Total 100%

Grading Scale:

100 - 92 = A
91 - 83 = B
82 - 75 = C
74.9 - below = F

VII. Curriculum Checklist

☐ - Academic General Education Course (from ACGM – but not in WCJC Core)
No additional documentation needed

☐ - Academic WCJC Core Course
Attach the Core Curriculum Checklist, including the following:
- Basic Intellectual Competencies
- Perspectives
- Exemplary Educational Objectives

☑ - WECM Courses
If needed, revise the Program SCANS Matrix & Competencies Checklist.