

**El Paso Community College**  
**Syllabus**  
**Part II**  
**Official Course Description**

<b>SUBJECT AREA</b>	<b>Radiologic Technology</b>								
<b>COURSE RUBRIC AND NUMBER</b>	<b>RADR 2205</b>								
<b>COURSE TITLE</b>	<b>Principles of Radiographic Imaging II</b>								
<b>COURSE CREDIT HOURS</b>	<table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="padding: 0 10px;"><b>2</b></td> <td style="padding: 0 10px;"><b>1</b></td> <td style="padding: 0 10px;"><b>:</b></td> <td style="padding: 0 10px;"><b>4</b></td> </tr> <tr> <td style="padding: 0 10px;"><b>Credits</b></td> <td style="padding: 0 10px;"><b>Lec</b></td> <td></td> <td style="padding: 0 10px;"><b>Lab</b></td> </tr> </table>	<b>2</b>	<b>1</b>	<b>:</b>	<b>4</b>	<b>Credits</b>	<b>Lec</b>		<b>Lab</b>
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<b>Credits</b>	<b>Lec</b>		<b>Lab</b>						

**I. Catalog Description**

Studies radiographic image, quality and the effects of exposure variables, and the synthesis of all variables in image production. A grade of "C" or better is required in this course to take the next course.

**Prerequisite: RADR 1313. (1:4). Lab fee.**

**II. Course Objectives**

Upon satisfactory completion of this course, the student will be able to

- A. Explain the differences between quality assurance, quality control, and quality management
- B. Describe the various components of a risk management program.
- C. State the function and characteristics of a darkroom used for diagnostic imaging.
- D. List the main chemical components of the developer and fixer solutions and state the function of each component.
- E. List the six main systems of an automatic film processor and state the function of each system
- F. List the main components of a processor quality control program in diagnostic imaging.
- G. Perform sensitometric test to monitor processor function.
- H. List and describe the performance tests for radiographic equipment.
- I. Discuss quality control testing of various AEC parameters.
- J. Discuss the importance of screen/cassette/grid condition on image quality and patient safety.
- K. Explain the importance of repeat analysis studies in quality management
- L. Identify artifacts that may appear on diagnostic images.
- M. Discuss the purpose and function of digital image manipulation factors.
- N. Describe several quality assurance activities used in a digital radiology department.

**III. THECB Learning Outcomes (WECM)**

- 1. Analyze image quality.
- 2. Utilize procedures for minimizing patient exposure.
- 3. Adapt technical variables to changing conditions.

**IV. Evaluation**

- A. Methods
  - 1. quizzes, worksheets, and laboratory assignments
  - 2. unit examinations
  - 3. comprehensive final examination

B. Grading Scale

93	-	100	=	A
85	-	92	=	B
75	-	84	=	C
65	-	74	=	D
64 & below			=	F

A total final course grade of below C (i.e., less than 75%) is not acceptable for completion of this course.

C. Final Grade Determination

The final grade for this course is calculated as follows:

Quizzes/Worksheets/Labs	10% towards final grade
Unit Examinations	60% towards final grade
Comprehensive Final Exam	<u>30% towards final grade</u>
TOTAL	100%

Final grades will be determined by rounding the total points earned in the course to equal a whole number. A number followed by a decimal of .5 or more will be rounded to the next highest whole number. A number followed by a decimal of less than .5 will be rounded down to the next lowest whole number.

V. **Disability Statement (American with/Disabilities Act [ADA])**

EPCC offers a variety of services to persons with documented sensory, mental, physical, or temporary disabling conditions to promote success in classes. If you have a disability and believe you may need services, you are encouraged to contact the Center for Students with Disabilities to discuss your needs with a counselor. All discussions and documentation are kept confidential. Offices located: VV Rm C-112 (831-2426); TM Rm 1400 (831-5808); RG Rm B-201 (831-4198); NWC Rm M-54 (831-8815); and MDP Rm A-125 (831-7024).

VI. **6 Drop Rule**

Students who began attending Texas public institutions of higher education for the first time during the Fall 2007 semester or later are subject to a 6-Drop limit for all undergraduate classes. Developmental, ESL, Dual Credit and Early College High School classes are exempt from this rule. All students should consult with their instructor before dropping a class. Academic assistance is available. Students are encouraged to see Counseling Services if dropping because exemptions may apply. Refer to the EPCC catalog and website for additional information.