El Paso Community College
Syllabus
Part II
Official Course Description

SUBJECT AREA	**Medical Imaging Technology-Radiography**
COURSE RUBRIC AND NUMBER	**RADR 2205**
COURSE TITLE	**Principles of Radiographic Imaging II**
COURSE CREDIT HOURS	**2 1 : 4** **Credits Lec Lab**

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	30% towards final grade
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 (Americans 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.