

El Paso Community College
Syllabus
Part II
Official Course Description

SUBJECT AREA	<u>Medical Imaging Technology-</u> <u>Radiography</u>
COURSE RUBRIC AND NUMBER	<u>RADR 2309</u>
COURSE TITLE	<u>Radiographic Imaging Equipment</u>
COURSE CREDIT HOURS	<u>3 2 :</u> <u>Credits Lec Lab</u>

I. Catalog Description

Studies the equipment and physics of x-ray production. Includes basic x-ray circuits. Examines the relationship of conventional and digital equipment components to the imaging process. A grade of "C" or better is required in this course to take the next course. **(2:4). Lab fee.**

II. Course Objectives

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

- A. Examine the theories of physics at the atomic and subatomic levels.
- B. Discuss the basic electronics involved in daily radiographic practice.
- C. Explain the multiple energy transformations required for the production of x-rays.
- D. Review the production of radiation in the radiographic tube.
- E. Discuss the nature of radiation.
- F. Discuss the components and use of a digital radiography system.

III. THECB Learning Outcomes (WECM)

Upon completing this course, the student will be able to:

- 1. Differentiate between conventional and digital equipment.
- 2. Explain the physics of x-ray production.
- 3. Describe x-ray circuits.
- 4. Relate conventional and digital equipment components to the imaging process.

IV. Evaluation

A. Methods

- 1. quizzes 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 70%) 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	70% towards final grade
Comprehensive Final Exam	<u>20% 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 (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.

VII. Title IX and Sex Discrimination

Title 9 (20 U.S.C. 1681 & 34 C.F.R. Part 106) states the following "No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any educational program or activity receiving Federal financial assistance." The Violence Against Women Act (VAWA) prohibits stalking, date violence, sexual violence, and domestic violence for all students, employees and visitors (male and female). If you have any concerns related to discrimination, harassment, or assault (of any type) you can contact the Assistant to the Vice President for Student and Enrollment Services at 915-831-2655. Employees can call the Manager of Employee Relations at 915-831-6458. Reports of sexual assault/violence may also be reported to EPCC Police at 915-831-2200.