

El Paso Community College

Syllabus

Part II

Official Course Description

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| SUBJECT AREA | <u>Medical Imaging Technology</u> <u>Radiography</u> |
| COURSE RUBRIC AND NUMBER | <u>RADR 1411</u> |
| COURSE TITLE | <u>Basic Radiographic Procedures</u> |
| COURSE CREDIT HOURS | <u>4 2 :</u> <u>6</u> Credits Lec Lab |

I. Catalog Description

An introduction to radiographic positioning terminology, manipulation of equipment, positioning and alignment of the anatomic structure and equipment, and evaluation of images for demonstration of basic anatomy. A grade of "C" or better is required in this course to take the next course. **(2:6). Lab fee.**

II. Course Objectives

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

- A. Discuss and apply the Code of Ethics in Radiologic Technology.
- B. Identify and describe IRs used in imaging.
- C. Define image quality factors.
- D. Explain and demonstrate proper display of radiographs of various anatomic parts.
- E. Define anatomic position.
- F. List and identify the proper identification markers required for radiographs.
- G. Describe proper radiation protection techniques.
- H. List the technical factors used in radiographic exposure.
- I. Recognize general anatomy of the human body on diagrams.
- J. Cite and define the body planes and special planes used for radiographic positioning.
- K. Describe the body cavities and list the organs located in each.
- L. Describe the body regions and list the organs located in each.
- M. Locate the surface landmarks relevant to radiography.
- N. Define the characteristics of each body habitus.
- O. Identify anatomy of the thoracic viscera on diagrams and radiographs including the portions of the respiratory system.
- P. Explain and demonstrate the proper positioning of the patient and part for all essential projections of this anatomy.
- Q. Explain and demonstrate the proper CR and IR relations for all essential projections.
- R. Recognize abdominal anatomy on diagrams and radiographs.
- S. Explain and demonstrate the proper positioning of the patient and part for all essential projections of this anatomy.
- T. Explain and demonstrate the proper central ray and image receptor relations for all essential projections of the abdomen.
- U. Recognize upper limb anatomy and articulations on diagrams and radiographs.
- V. Explain and demonstrate the proper positioning of the patient and part for all essential projections of this anatomy.

- W. Explain and demonstrate the proper central ray and image receptor relations for all upper limb essential projections.
- X. Identify anatomy of the shoulder girdle on diagrams and radiographs.
- Y. Explain and demonstrate the proper patient positioning for essential projections of the shoulder joint, clavicle, scapula, and AC joints.
- Z. Demonstrate recognition of anatomy of the lower limb on diagrams and radiographs.
- AA. Explain and demonstrate the proper patient and part position for all essential projections of the lower limb.
- BB. Demonstrate recognition of anatomy of the pelvic girdle and upper femora on diagrams and radiographs.
- CC. Detail the method to localize the hip joint and femoral neck.
- DD. Explain and demonstrate the proper patient and part position for all essential projections of the pelvis and upper femora, femoral necks, hip, and acetabulum.
- EE. Explain communication skills necessary to work with various age groups of pediatric patients.
- FF. Delineate the psychological patient care aspects of pediatric patients including those with special needs.
- GG. Define the radiographer's role in suspected cases of child abuse.
- HH. Demonstrate proper immobilization techniques for pediatric procedures.

III. THECB Learning Outcomes (WECM)

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

1. Define radiographic positioning terms.
2. Manipulate equipment.
3. Perform basic level procedures in positioning.
4. Align anatomic structures and equipment.
5. Evaluate images.

IV. Evaluation

A. Didactic Grading Scale

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

B. Laboratory Grading Scale

96 - 100 = A
91 - 95 = B
85 - 90 = C
84 & below = F

C. Weighted Percentage Breakdown

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|------------|-----------------------------|
| Didactic | = 70% of total grade |
| Laboratory | = <u>30% of total grade</u> |
| TOTAL | 100% |

No grade of less than "C" will be considered as successful completion of a professionally related course.

D. Postassessment

Post assessment will occur following the completion of each unit. Written Examinations will be used for the didactic portion of the grade and performance tests will be employed for the laboratory portion of the grade.

E. Remediation

Students who fail a unit examination will be directed back to the particular unit for additional study. No retake examinations will be granted to students that score failing grades. In the laboratory a grade of below 85% is considered failure of a laboratory performance test and remediation will be assigned.

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.