El Paso Community College
Syllabus
Part II
Official Course Description

SUBJECT AREA **Radiation Therapy Technology**

COURSE RUBRIC AND NUMBER **RADT 1142**

COURSE TITLE **Quality Assurance in Radiation Therapy**

COURSE CREDIT HOURS **1 0 : 3**
Credits Lec Lab

I. Catalog Description

Provides theory and application of instruments used in the direction and analysis of therapeutic ionizing radiation with special emphasis on procedures that provide consistency, uniformity and quality within the department. A grade of "C" or better is required to take the next course. **(0:3). Lab fee.**

II. Course Objectives

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

A. Explain the purpose, procedures, and frequency for manual and electronic treatment documentation.
B. Identify errors in treatment documentation.
C. Describe the procedure for assuring accuracy of manual and electronic records.
D. Explain the purpose and function of record and verify systems.
E. Examine the patient chart in terms of medical and legal issues.
F. Discuss the importance of proper patient identification and treatment field documentation.
G. Identify the key aspects of delivering a precise prescribe treatment dose.
H. Discuss quality control procedures and recommended tolerances for simulation/localization units and mega voltage treatment units.
I. Discuss quality control procedures for the superficial x-ray unit.
J. Discuss quality control procedures recommended tolerances for the safe handling of brachytherapy sources and remote afterloading equipment.
K. Identify quality checks on radiographic darkroom.
L. Describe the procedure for assuring accuracy of block insert fabrication equipment and positioning devices.

III. THECB Learning Outcomes (WECM)

1. Identify tools and instruments used in conjunction with therapeutic radiation quality control.
2. Perform required quality control, scheduled and spot checks.
3. Differentiate between spot checks and calibrations.

IV. Evaluation

A. Methods

1. Labs/Participation
2. Written Quizzes

B. Grading Scale

93 – 100	= A
85 – 92	= B
75 - 84	= C
74 and below	= F

A grade of 75% or above is required to successfully complete this course.

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.