

MASTER SYLLABUS

COURSE NUMBER AND TITLE:

RAD 420- Special Studies in Radiation Therapy

COURSE DESCRIPTION:

A review of the many types of cancer to include discussion of clinical symptoms, treatment patterns, technical pitfalls, survival statistics and patient/family interactions. Quality assurance procedures for a Radiation Therapy Department will also be reviewed to include different QA tests, tolerances, and frequencies. Both written and oral seminar responses will be included in this course. Prerequisite: RAD 360, 370, 380, 390, 400.

COURSE OBJECTIVES:

1. Demonstrate knowledge of the nursing aspect of patient care.
2. Demonstrate an understanding of the disease: stage, diagnosis, prognosis, and cross-sectional anatomy.
3. Demonstrate an understanding of quality assurance procedures.
4. Demonstrate an understanding of billing procedures.

TOPICAL OUTLINE:

1. Nomenclature.
2. Dose calculation parameters.
3. Practical calculation methods.
4. Gap calculations.
5. Irregular field calculations.
6. Beam modifiers.
7. Isodose distributions and factors that affect isodose distributions.
8. Electron beam parameters and dosimetry.
9. Special procedures

MEANS OF STUDENT EVALUATION:

Grading Scale

A = 100 - 93
B = 92 - 85
C = 84 - 77
D = 76 - 70
F = 70 and below

A Course grade of a "B" or better is required in RAD 420 to continue in the radiation therapy program.

PREREQUISITES: Instructor approval.

TEXTBOOK:

No new textbook required.