COURSE INFORMATION FORM

DISCIPLINE Radiologic Technology

COURSE TITLE Imaging Modalities

CR.HR 2.0 LECT HR 2.0 LAB HR CLOCK HR

CATALOG DESCRIPTION
Exploration of advanced modalities within the radiologic sciences.

PREREQUISITES
RATE 176, concurrent enrollment in RATE 279 and RATE 280

EXPECTED STUDENT OUTCOMES IN THE COURSE (ESO)
Upon completion of this course, the student will be able to:

1. Compare and contrast all aspects of the various imaging modalities.
2. Distinguish the equipment and its components utilized in each of the special imaging modalities.
3. Discuss federal, state and local regulation applicable to each of the imaging modalities.

GENERAL EDUCATION OUTCOMES (ESO)
Specify which general education outcomes, if any, are substantially addressed by the course. Numbers in parentheses identify the Expected Student Outcomes linked to the specific General Education Outcome.

Outcomes ESO
1. Communication
   B. Writing
      4. Gather information, evaluate its credibility, analyze, and synthesize sources. (1)
      7. Use writing for inquiry, learning, thinking, and for communicating new information (1)
PROGRAM-LEVEL OUTCOMES

CAREER AND TECHNICAL EDUCATION PROGRAM OUTCOMES
Specify which Career and Technical program outcomes, if any, are substantially addressed by the course by completing the “Career and Technical Education template” to show the relationship between course and program outcomes to assessment measures.

2. Each student will communicate effectively in both oral and written formats

CLASS-LEVEL ASSESSMENT MEASURES
Student accomplishment of expected student outcomes will be assessed using the following measures. (Identify which measures are used to assess which outcomes.)

1. Written essay (1-3)
2. Written examination (1-3)
3. Computer tutorials/quizzes (1-3)
COURSE OUTLINE FORM

DISCIPLINE: Radiologic Technology

COURSE TITLE: Imaging Modalities

Individual instructors may order this outline as fits the needs of their individual courses. In addition, they may place more emphasis on some areas than on others. What is assured is that this particular list is covered in the course. Other topics may be added to a course as the instructor sees fit, and as time and interest allow. An *asterisk can be used to mark an item as optional.

I. Mammography
   A. Accreditation and regulations
   B. Anatomy and physiology
   C. Pathology
   D. BSE
   E. Equipment
   F. Radiographic procedures
      1. General considerations
      2. Special considerations
   G. Image Evaluation

II. Computed tomography

III. Magnetic resonance imaging

IV. Sonography

V. Nuclear medicine

VI. Radiation therapy

VII. Bone densitometry

VIII. Interventional procedures
   A. Cardiac
   B. Vascular