### COURSE INFORMATION FORM

**DISCIPLINE**  
Radiologic Technology

**COURSE TITLE**  
Introduction to Radiologic Technology

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**CATALOG DESCRIPTION**

Introduction to the profession of radiologic technology including the scope of practice, roles, responsibilities and duties of a radiologic technologist.

**PREREQUISITES**

None

**EXPECTED STUDENT OUTCOMES IN THE COURSE (ESO)**

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

1. Analyze the role of radiology in the health care environment.
2. Describe the education requirements in radiologic technology.
3. Identify imaging equipment used in radiologic technology.
4. Define and utilize terminology standard to radiologic technology.
5. Analyze a minimum of five radiographic procedures and describe the anatomy evaluated with the procedures.
6. Summarize the basic principles of radiographic imaging.
7. Summarize the daily tasks performed by the radiologic technologist.
8. Identify specialty areas in the imaging sciences.

**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**  

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<td>2. Critical Thinking</td>
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<td>B. Define, analyze, and evaluate information, materials and data</td>
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<td>4. Integrate information and see relevant relationships that broaden and deepen understanding (5, 6, 7)</td>
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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. Students will communicate effectively in both oral and written formats.
4. Students will exhibit professional growth and seek new knowledge

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 reports/essays (1, 4, 5, 6, 7)
2. Class discussion/ online discussion boards (2, 7, 8)
3. Quizzes (1-8)
4. Written examinations (1-8)
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. Introduction to healthcare
   A. Medical facilities
   B. Professionalism
   C. Communication
   D. Radiographic Procedures

II. HIPAA
   A. Definition
   B. Purpose
   C. Terminology
   D. Privacy standards
   E. Applications

III. Historical events in radiography

IV. Radiography education
   A. Types of programs
   B. Program locations/ sponsoring institutions
   C. Courses
   D. Classroom to clinic sequence
   E. ASRT curriculum

V. Medical terminology
   A. Positioning terminology
   B. Radiology exam terms
   C. Radiology equipment and supplies terms
   D. Exam requisition and patient history terms
   E. Pathology terms
   F. Movement and relationship terms
   G. Medication and treatment terms
   H. Accreditation and certification terms

VI. Imaging equipment
   A. Types
   B. Components
   C. Accessories
   D. Imaging supplies

VII. Radiographic procedures
   A. Exam sequence
   B. Chest imaging
   C. Skeletal imaging
   D. Contrast media imaging procedures
E. Mobile imaging
F. Specialized procedures

VIII. Radiographic imaging
A. Equipment
B. Supplies
C. Technical factors
D. Image quality

IX. Ethics & professionalism
A. Theories/ values
B. Standards of conduct
C. Professional conduct

X. Patient care
A. Patient identification verification procedures
B. Patient transfers and transportation
C. Age appropriate care
D. Medical and surgical asepsis
E. Standard precautions

XI. Medicolegal issues
A. Exam orders
B. Torts
C. Consent

XII. Radiation safety
A. Units of measurement
B. NCRP recommendations
C. Dosimetry
D. Radiation protection practices

XIII. Allied health professions

XIV. Professional organizations, certification and accrediting agencies

XV. Careers in the radiologic sciences
A. Diagnostic imaging Staff technologist
B. Mammography
C. Bone densitometry
D. CT
E. MRI
F. Cardiac /Vascular interventional imaging
G. Sonography
H. Nuclear Medicine
I. Radiation Therapy