

**RADIOLOGIC TECHNOLOGY
RADIOGRAPHIC ANATOMY RAD 105**

Lecture Hours: 4.0

Lab Hours: 0

Credit Hours: 4.0

[DL Attendance/VA Statement](#)

[Textbook Information](#)

COURSE DESCRIPTION

This course includes the study of the structures of the human body and the normal function of its systems. Special emphasis is placed on radiographic anatomy.

COURSE COMPETENCIES

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

Module I

Respiratory system

- List general functions of the respiratory system
- Name and locate the organs of the respiratory system
- Given radiographs, label the anatomy of the respiratory system
- Define medical terms associated with the respiratory system
- Identify the pathology associated with respiratory system
- Define the different types of pathology that are associated with inflammatory, degenerative, traumatic, neoplastic, and congenital/hereditary disease processes
- Identify, generally and radiographically, the pathology that is associated with each of the disease processes as it relates to the respiratory system

Module II

Abdomino/Genito Urinary system

- List general functions of the genito/urinary system
- Name and locate the organs of the genito/urinary system
- Given radiographs, label the anatomy of the genito/urinary system
- Define medical terms associated with the genito/urinary system
- Identify the pathology associated with the genito/urinary system
- Define the different types of pathology that are associated with inflammatory, degenerative, traumatic, neoplastic, and congenital/hereditary disease processes
- Identify, generally and radiographically, the pathology that is associated with each of the disease processes as it relates to the genito/urinary system.

Module III

Upper Extremity skeletal system

- List general functions of the Upper Extremity skeletal system
- Name and locate the associated anatomy of the Upper extremity skeletal system
- Given radiographs, label the anatomy of the Upper Extremity skeletal system
- Define medical terms associated with the Upper Extremity skeletal system

Module IV

Skeletal Pathology

- Identify the major pathologies associated with the skeletal system
- Define the different types of pathology that are associated with inflammatory, degenerative, traumatic, neoplastic, and congenital/hereditary disease processes
- Identify, generally and radiographically, the pathology that is associated with each of the disease processes as it relates to the skeletal system
- Demonstrate knowledge of differing fracture types and their radiographic representations

Module V

Lower Extremity skeletal system

- List general functions of the lower extremity skeletal system
- Name and locate the associated anatomical structures of the Lower Extremity skeletal system
- Given radiographs, label the anatomy of the Lower Extremities as it relates to varying methods of radiographic representation
- Define medical terms associated with the Lower Extremities of the skeletal system

Module VI

Vertebral Column

- List general functions of the vertebral column
- Name and locate the associated anatomical structures of the vertebral column
- Given radiographs, label the anatomy of the vertebral column as it relates to differing radiographic positioning methods
- Define medical terms associated with the vertebral column

Module VII

Digestive Anatomy and Pathology

- List general functions of the Digestive system
- Name and locate the organs of the Digestive system
- Given radiographs, label the anatomy of the Digestive system in various radiographic representations
- Define medical terms associated with the Digestive system
- Identify the pathology associated with the Digestive system
- Define the different types of pathology that are associated with inflammatory, degenerative, traumatic, neoplastic, and congenital/hereditary disease processes
- Identify, generally and radiographically, the pathology that is associated with each of the disease processes as it relates to the Digestive system

Module VIII

Rib and Sternum Anatomy

- List the general anatomical structures of the Thorax and Sternum
- Name and locate, radiographically, the anatomical structures of the ribs and Sternum

ENTRY LEVEL SKILLS

A student must be currently enrolled in the Radiologic Technology Program.

PREREQUISITES

RAD 102, RAD 101, RAD 152, BIO 210

CO-REQUISITES

RAD 130, RAD 110, RAD 165, BIO 211.

METHODS OF INSTRUCTION

Principles will be introduced by CD rom and the instructor through lecture, laboratory practice, audiovisuals, radiographs, and independent readings. Additional methods designed for remediation or enrichment will be individually tailored as needed.

COURSE REQUIREMENTS

All students are responsible for attaining competencies through the completion of the following course requirements:

- attending class (See *Handbook and Catalog* for attendance policy)
- reading all assigned materials as listed in syllabus
- participating in all class activities and tests as scheduled and as listed in syllabus
- completing CAI lab assignments

ACADEMIC INTEGRITY

The policies stated in the *YTC Handbook and Catalog* and *Radiologic Technology Student Manual* will be enforced. Any student violating the policy will be subject to academic discipline as stated.

ATTENDANCE POLICY

The attendance policy stated in the *YTC Handbook and Catalog* and *Radiologic Technology Student Manual* will be enforced.

GRADING PROCEDURES

Unit tests will be given as outlined in the syllabus. Any pop quizzes may be unannounced and will be averaged together at the end of the semester to be given the weight of one unit test. Pop quizzes may not be made up. A minimum grade of 80% is required on all unit tests to pass. Any student making a grade lower than 80% on a unit test will be required to take a comprehensive final exam at the end of the semester. However, if any student makes one grade lower than 80% and still maintains an A average at the end of the semester, the student will be required to take the comprehensive final exam; but its score will only be utilized if it aids the student's average. Any student that requires more than one make-up test will be required to take a comprehensive final exam. The final exam will count as 1/3 of the final grade and the unit tests will count as 2/3 of the final grade. As with all RAD courses, the grading scale is as follows:

GRADE	SCORE
A	93-100
B	86-92
C	80-85
D	70-79
F	BELOW 70

See *Student Manual* for additional information.