

Course Number RAD224

Course Title Introduction to Pathology

Credits 2

Hours: Lecture/Lab/Other 2 Co- or Pre-requisite Pre-requisites: RAD217, RAD228 Co-requisites: RAD232, RAD240 Implementation Semester & Year Spring 2022

## **Catalog description:**

Provides a survey of the disease process and pathological conditions. An in-depth study of diseases commonly demonstrated radiographically is presented.

**General Education Category:** 

**Course coordinator:** 

Not GenEd

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**Required texts/Supplements:** 

**REQUIRED:** Title: Radiographic Pathology

Author: Terri Ann Linn-Watson

Publisher: Wolter Kluwer

Edition: Second

#### **Course Student Learning Outcomes (SLO):**

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

- Describe the pathology of physiologic processes and conditions that can affect tissues, organs, and body systems. [Supports ILG # 3]
- 2. Utilize pathology and radiologic imaging principles to develop the technical competence to perform diagnostic imaging procedures on patients afflicted with disease. [Supports ILG# 3, 11]
- 3. Develop an understanding of the intricacies associated with providing direct patient care with patients afflicted with disease in today's health care setting. [Supports ILG # 1, 3, 11]
- 4. Apply pathology principles to recognize the difference between abnormal and normal radiographic appearances. [Supports ILG # 3, 11]
- 5. Analyze the significance of the variety of imaging and medical procedures used in diagnosing diseases. [Supports ILG # 3, 11]

## **Course-specific Institutional Learning Goals (ILG):**

**Institutional Learning Goal 1. Written and Oral Communication in English.** Students will communicate effectively in both speech and writing.

**Institutional Learning Goal 3. Science.** Students will use the scientific method of inquiry, through the acquisition of scientific knowledge.

**Institutional Learning Goal 11. Critical Thinking:** Students will use critical thinking skills understand, analyze, or apply information or solve problems.

## Units of study in detail – Unit Student Learning Outcomes

<u>Unit I:</u> Pathology Principles, Neoplasia & Genetic Disorders [Supports Course SLO #1] <u>Learning Objectives</u>:

The student will be able to:

- · Define basic terms related to pathology.
- Discuss the classifications of disease.
- List the causes of tissue disruption.
- Describe the healing process.
- Identify complications connected with the repair and replacement of tissue.
- Identify diseases caused by or contributed to by genetic factors.

<u>Unit II - IV</u> Skeletal System [Supports Course SLOs #1, 2, 3, 4, 5]

<u>Unit V – VIII</u> Respiratory and Circulatory Systems [Supports Course SLOs #1, 2, 3, 4, 5] <u>Unit IX –XII</u> Gastrointestinal and Urinary Systems [Supports Course SLOs #1, 2, 3, 4, 5]

# Learning Objectives:

The student will be able to:

- Describe the various systemic classifications of disease in terms of etiology, manifestations, diagnosis, treatment, common sites, and prognosis.
- Classify diseases in terms of their attenuation of x-ray photons; correlate to technical factor selection.
- Describe the radiographic appearance of common diseases of the skeletal, respiratory, circulatory, gastrointestinal, and urinary system.
- Correlate diagnostic imaging procedures with medical procedures used to diagnose disease.
- Identify radiographic positions, imaging procedures, and interventional techniques appropriate for diseases common to each body system.
- Discuss the role of the radiographer when performing radiographic procedures on patients diagnosed with disease.

#### **Evaluation of student learning:**

A grade of "C+" (77%) or higher must be achieved in the course to progress to RAD242. The following grading policy will be utilized:

Tests = 45% Web Quest Project = 25% Homework = 15% Assessment Quizzes = 15%