# COURSE OUTLINE

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>RAD224</td>
<td>Introduction to Pathology</td>
<td>2</td>
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<table>
<thead>
<tr>
<th>Hours:</th>
<th>Co- or Pre-requisite</th>
<th>Implementation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture/Lab/Other</td>
<td>Pre-requisites: RAD217, RAD228</td>
<td>Semester &amp; Year</td>
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<tr>
<td>2</td>
<td>Co-requisites: RAD232, RAD240</td>
<td>Spring 2022</td>
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**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:**
Not GenEd

**Course coordinator:**
Sandra L. Kerr, 609-570-3337, kerrs@mccc.edu

**Required texts/Supplements:**

<table>
<thead>
<tr>
<th>REQUIRED:</th>
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<tbody>
<tr>
<td>Title: Radiographic Pathology</td>
</tr>
<tr>
<td>Author: Terri Ann Linn-Watson</td>
</tr>
<tr>
<td>Publisher: Wolter Kluwer</td>
</tr>
<tr>
<td>Edition: Second</td>
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**Course Student Learning Outcomes (SLO):**

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

1. 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 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

Unit I: Pathology Principles, Neoplasia & Genetic Disorders [Supports Course SLO #1]
Learning Objectives:
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.

Unit II - IV Skeletal System [Supports Course SLOs #1, 2, 3, 4, 5]
Unit V – VIII Respiratory and Circulatory Systems [Supports Course SLOs #1, 2, 3, 4, 5]
Unit IX –XII 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%