**MASTER SYLLABUS**

**COURSE NO. HOURS, AND TITLE:** RAD 394-3 – MRI and CT Pathology

**COURSE DESCRIPTION:**

This course is designed as an overview of the pathologies commonly seen in magnetic resonance imaging and computed tomography. Along with distinguishing various types of pathologies as seen on MRI and CT scan, emphasis will be placed on a general understanding of the descriptions, etiology, epidemiology, signs and symptoms, imaging characteristics, treatment, and prognosis of those pathologies. Restricted to major.

**PREREQUISITIES TO:** RAD 404 and 414

**COURSE OBJECTIVES:**

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

1. Differentiate between normal and pathologic structures.
2. Identify various types of pathologies commonly seen in the central nervous system, head/neck, chest, abdomen, pelvis, musculoskeletal (joints), and vascular system.
3. Define the terminology commonly used in identifying these pathologies.

**TOPICAL OUTLINE:**

| Topics | Percentages of Time |
| --- | --- |
| 1. General Principles | 10% |
| 2. Central Nervous System | 25% |
| 3. Head and Neck | 5% |
| 4. Thorax | 15% |
| 5. Abdomen | 15% |
| 6. Pelvis | 15% |
| 7. Musculoskeletal | 15% |

**TEXTBOOK**:

Grey, M. L., & Ailinani, J. M. (2012). *CT and MRI pathology: A pocket atlas*, 2nd ed. New York: McGraw-Hill Professional.