

**Course Objectives/Course Outline  
Spokane Community College**

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**Course Title:** Advanced Image Evaluation

**Prefix and Course Number:** RAD 239

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**Course Learning Outcomes:**

**By the end of this course, a student should be able to:**

- Discuss the necessity of the radiographic examination as it relates to identifying disease processes, patient handicaps and degree of difficulty in obtaining appropriate anatomical views
- Differentiate between the sagittal, coronal, axial and oblique planes of the body  
List basic positioning procedures for each exam presented in the various imaging modalities
- Identify positioning landmarks for each exam presented in the various imaging modalities
- Identify the anatomy and anatomical anomalies for each exam presented in the various imaging modalities
- Describe the influencing factors of radiographic quality, i.e. density contrast resolution, fog distortion and magnification for each exam presented in the various imaging modalities

**Course Outline:**

- I. Cross-sectional anatomy
  - A. Body Planes
- II. CT (Cat Scan)
  - A. Procedures
  - B. Image Quality
- III. MRI (Magnetic Resonance Imaging)
  - A. Procedures
  - B. Image Quality
- IV. Nuclear Medicine
  - A. Procedures
  - B. Image Quality
- V. Sonography
  - A. Procedures
  - B. Image Quality
- VI. Interventional & Cardiac Imaging
  - A. Procedures
  - B. Image Quality