BMEN6394 - Medical Imaging Techniques and Image Processing

**BMEN 6394** Medical Imaging Techniques and Image Processing (3 semester credit hours) In this course, the fundamental physical principals of modern medical imaging techniques will be covered, including x-ray, ultrasound, MRI, optical, nuclear, multi-modality imaging, and contrast agents. Students will also learn many common image processing methods, such as image reconstruction, filtering, segmentation, registration, and fitting. Recommended prerequisite: **EE 3302** or equivalent. (3-0) R