BMEN 6394 - 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