BME 531	Biomedical Optical Diagnostic
Catalog Data	Theoretical and experimental principles of optically based diagnostic systems; emphasis on generating quantitative descriptions of biochemical and biophysical interactions of optic systems as applied to medical diagnostics and sensing. Spectroscopy is also covered.
Course Total O Prerequisites: Course Coord	Graduate Standing and consent of instructor
Textbooks 1. Handbook of Optical Biomedical Diagnostics by Valery V. Tuchin, 2002.	
	References
 Intermediate Optical Design by Michael J. Kidger, 2004. Near-Field Nano-Optics: From Basic Principles to Nano-Fabrication and Nano-Photonics (Lasers, Photonics, and Electro-Optics) by Motoichi Ohtsu and Hirokazu Hori, 1999. 	
Goals	Familiarize the students with the theoretical and experimental concepts of optical diagnostic systems.
Projects	
Major CAD Packages	
Last Review:	Spring Semester 2008 Signature: