

ENGS 167 - Medical Imaging Class Schedule Fall 2008

Monday 10:00-11:05am	Tuesday	Wednesday 10:00-11:05am	Thursday (x-hour) 12:00-12:50pm	Friday 10:00-11:05am
		Sept 24 1.Radiation & Interaction	Sept 25 LAB 1: Radiation dosimetry (Ong & Fox)	Sept 26 2.Risk & Dosimetry
Sept 29 3.Radiation Biology	Lab 2: x-ray imaging (Pogue & Fox)	Oct 1 4 .Radiography 1 – x-ray tubes & systems LAB 1 due	Oct 2 5. Radiography 2 - Film screen	Oct 3 6. Mammography & Fluoroscopy
Oct 6 7. Digital Radiography		Oct 8 8. Image Processing I – Image types & linear transforms LAB 2 due (Dr. Subha Srinivasan)	Oct 9 9. Image Processing II – Frequency domain (Dr. Subha Srinivasan) Lab 3: Image Processing Assignment	Oct 10 Journal Club 1 (present assigned paper)
Oct 13 10. Image Analysis		Oct 15 11. Image Reconstruction Theory LAB 3 due	Oct 16 12. Computed Tomography Scanners LAB 4: Image formation & Analysis Assignment	Oct 17 Engineering Healthcare Symposium (All Day)
Oct 20 Journal Club 2 (present assigned paper)		Oct 22 Journal Club 2 (present assigned paper) LAB 4 due	Oct 23 Mid Term Test (evening) LAB 5: CT Imaging (noon hours this week)	Oct 24 13. Introduction to Image Visualization (Mimics & Analyze) (Dr. Subha Srinivasan)
Oct 27 14. New System Analysis & ROC		Oct 29 15. Nuclear Medicine LAB 5 due	Oct 30 Journal club (assigned software tools)	Oct 31 16. PET Imaging
Nov 3 17. MRI I (Colin Carpenter)		Nov 5 18. MRI II LAB 6 due (Colin Carpenter)	Nov 6 LAB 6: MR Imaging at 7-Tesla	Nov 7 19. MRI III (Colin Carpenter)
Nov 10 20. MRI (Colin Carpenter)		Nov 12 21. Ultrasound – basic principles	Nov 13 LAB 7: Ultrasound	Nov 14 22. Ultrasound – in practice LAB 5 due
Nov 17 23. Compartmental Modeling		Nov 19 24. Radiation Therapy I Cobalt, RT	Nov 20 LAB 8: 3T Human MRI	Nov 21 25. Radiation Therapy II IMRT, Brachytherapy
Nov 24 Review ??		Nov 26 No class Thanksgiving Break	Nov 27 No class Thanksgiving Break	Nov 28 No class Thanksgiving Break
Dec 1 Journal Club 3 (present assigned industry/device)		Dec 3 Journal Club 3 (present assigned industry/device)	Nov 30	Dec 1
FINAL EXAM				