

6.163 Class Schedule Fall 2009. Rev 1.1 J. Bales 14 September 2009

Date			Lecture	Lab
Sep	7	W	Objectives & Goals	
	12-13	S/S	Darkroom Technique Introduction to Strobe photography: BCPS Equation, Lens Equation and Magnification	Attend Sat. <i>or</i> Sun.
	14	M	Course Expectations; Synch and Delay What makes a good team member?	Lab 1 Synch and Delay
	16	W	How to write a lab report	
	21	M	Stroboscopy Three-Point Lighting, Advanced Lighting	Practical Exercise (solo) (Lab 1 memo is due)
	23	W	Photographs under mixed lighting (i.e., flash and continuous light); Motion Blur	
	28	M	Project Planning;	Lab 2 Stroboscopy
	30	W	Review lab reports; What makes a good Multiflash Photo	(Practical Exercise is due)
Oct	5	M	Past Final Projects; Presentation Tips, Overview of High-Speed Video (HSV) ATTENDANCE WILL BE TAKEN	Lab 3 Multi-flash (Lab 2 memo is due)
	7	W	Guest Lecture: <i>Motion Analysis</i>	(Email w/2 ideas for topic of final project due 5 PM, 3 Oct)
	13	T	Schlieren Imaging (Meet in 4-410) Each student emails two ideas for final projects to Dr. Bales (5 PM deadline)	Lab 4 HSV (Oral Presentation on Lab 3)
	14	W	Intro to Bullets; Meet in lab groups & brainstorm potential final projects. ATTENDANCE WILL BE TAKEN	
	19	M	How to select a Mark 1 project; lab groups meet & down-select to 1 project ATTENDANCE WILL BE TAKEN	Lab 5 Bullets (Lab 4 memo is due)
	21	W	In-class planning of Mark 1 project ATTENDANCE WILL BE TAKEN	

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	26	M	TBA	Mark I Project
	28	W	Strobe circuits and strobe process.	(Lab 5 memo is due)
Nov	2	M	Derive BCPS Equation HW Distributed	Mark I Project
	4	W	Guest Lecture: <i>Life as a High-Speed Imaging Consultant</i>	
	9	M	Review HW HW Due at NOON	FINAL PROJECT
	11	W	Holiday	(HW is due on 11/9)
	16	M	Mark I Oral Reports (first three lab groups)	FINAL PROJECT
	18	W	Mark I Oral Reports (last two lab groups) Mark I Written Reports due 11/20	(Mark I memo is due on 11/20)
	23	M	Quiz	FINAL PROJECT
	25	W	No Class (in lieu of oral presentation for Lab 3)	
	30	M	Technology of Digital Imaging	FINAL PROJECT
Dec	2	W	Blackbody and Line Emission Spectra	
	7	M	Final Project Presentations (First 3 groups)	FINAL PROJECT
	9	W	Final Project Presentations (Last 3 groups) FINAL REPORT DUE 12/10, 5 PM (24-hour grace period for late reports)	