

Schedule

02/17/09

MCEN 4228/5228-010 Flow Visualization: The Physics and Art of Fluid Flow Spring 2009

Week	<u>Monday</u>	<u>Weds</u>	<u>Friday</u>
1	1/12 Intro, expectations. Get Wet 1, Clouds 1 assigned.	1/14 Overview, survey of images	1/16 ITLL orientation all students, 2-2:30
2	1/19 MLK day, no class	1/21 Flow physics I (1)Email list, (2)entry survey, FLUPER survey due	1/23 3-4 pm lecture: Fundamentals of imaging: lenses
3	1/26 Flow physics II	1/28 Intro to Photoshop	1/30 Lecture: Fund.Imaging-, aperture, lighting, exposure, film/digital sensitivity, file types
4	2/2 Get Wet Project 1 due; critique	2/4 Alex: History of Art/Photography	2/6 (JH gone)
5	2/9 Critique con't	2/11 Clouds 1 team intros	2/13 Equipment demos in the ITLL: flume, dye injection system, Hele Shaw cell, birefringence
6	2/16 GW critique 3 Clouds lecture 2.	2/18 Clouds 3 Teamwork Resolution. Facilities descriptions	2/20 Equipment demos in the ITLL: Vortex ring generator, Soap film tunnel, ultrasonic aerosols, Hele Shaw cell. Durning: high-speed camera
7	2/23 Seeded flows 1: Dyes	2/25 Clouds 1 due. Critique.	2/27 Friday lab will be team time from here on. (JH gone this Friday)
8	3/2 Seeded flows 2 Particles	3/4 Seeded flows 3 Particles	3/6 Any demos that were missed

9	<u>3/9</u> Seeded flows 4 Particle generation techniques, air	<u>3/12</u> Team Project 1 due ; critique	<u>3/13</u>
10	<u>3/16</u> Particle generation in air, Light bending: Schlieren, shadowgraph	<u>3/18</u> <u>16</u> Light bending: Schlieren, shadowgraph, interface effects	<u>3/20</u>
11	<u>3/23</u> <u>SPRING BREAK</u>	<u>SPRING BREAK</u>	<u>SPRING BREAK</u>
12	<u>3/30</u> Solid surface techniques: tufts, smears, TSP	<u>4/1</u> Team Project 2 due ; critique	<u>4/3</u>
13	<u>4/6</u> Guest Lecture: Stereo Photography John Hart	<u>4/8</u>	<u>4/10</u>
14	<u>4/13</u> Guest lecture Color management	<u>4/15</u> Clouds 2 due; critique	<u>4/17</u>
15	<u>4/20</u> Alex	<u>4/22</u> Alex	
16	<u>4/27</u> Alex	<u>4/29</u> Team 3 due ; critique	<u>5/1</u> Class Show in Engineering Center Lobby, 9-5. Last day of class