

Schedule
09/18/07
MCEN 4228/5228-010 and ARTS 4017/5017 - 004
Flow Visualization: The Physics and Art of Fluid Flow
Fall 07

Week	<u>Tuesday</u>	<u>Thursday</u>	<u>Friday</u>
1	8/28 Intro, expectations. Get Wet 1, Clouds 1 assigned.	8/30 Overview, survey of images	8/31 ITLL orientation all students, 2-2:30 then 2:30-5 lecture: Fundamentals of photography-framing, lenses, aperture, lighting, exposure,
2	9/4 Overview: Flows, visualization, lighting, image acq., output. Teamwork. (1)Email list, (2)entry survey duev	9/6 Overview con't Films: Rivers and Tides The Fountain Other examples	9/7 2-4 pm Lecture: Fund.Photo-film/digital sensitivity, Formal art elements.
3	9/11 Films con't Resolution, definition.	9/13 Intro to Photoshop	9/14 Project time. Hertzberg office hrs
4	9/18 Clouds lecture.	9/20 Clouds 2	9/21 Equipment demos in the ITLL: flume, dye injection system, Hele Shaw cell, high-speed camera
5	9/25 Get Wet Project 1 due; critique	9/27 Science utility What is art? What is science? Clouds 3, team intros	9/28 Equipment demos in the ITLL: Vortex ring generator, Soap film tunnel, wind tunnel.
6	10/2 Facilities descriptions	10/4 Seeded flows 1: Dyes	10/5 Friday lab will be team time from here on.
7	10/9 Seeded flows 2 Dyes, particles	10/11 Clouds 1 due. Critique.	10/12
8	10/16 Seeded flows 3 Particles	10/18 Seeded flows 4 Particle generation techniques, air	10/19

9	<u>10/23</u> Particle generation in water, Solid surface techniques: tufts, smears, TSP	<u>10/10/25</u> Team Project 1 due ; critique	<u>10/26</u>
10	<u>10/30</u> Light bending: Schlieren, shadowgraph, interface effects	<u>11/1</u> Solid surface techniques: tufts, smears, TSP	
11	<u>11/6</u> Color management	<u>11/8</u> Team Project 2 due ; critique	
12	<u>11/13</u> Intro to 19 th cent. photography	<u>11/15</u> Intro to 19 th cent. Photography con't	
13	<u>11/20</u> FALL BREAK	<u>11/22</u> FALL BREAK	FALL BREAK
14	<u>11/27</u> Alex	<u>11/29</u> Clouds 2 due ; critique	
15	<u>12/4</u> Alex	<u>12/6</u> Alex	
16	<u>12/11</u> Alex	<u>12/13</u> Team 3 due ; critique	<u>12/14</u> Class Show in Engineering Center Lobby, 9-5. Last day of class