CHEM-ENG 535 - Microfluidics and Microscale Analysis in Materials and Biology

Prof. Sarah Perry Class Schedule

Week	Date	Topic	Reading Assignment	Comments, Deadlines
1	1/21	Course Introduction Syllabus, Literature & Design Assignments Scaling: micro- vs. macro-fluidics		
	1/23	Microfabrication Materials, Photolithography, Soft Lithography	Wiki Textbook Chapters 1 and 2	Homework #1 Due Introduction to Microfluidics and Wiki Page Selections
2	1/28	Device Design Adobe Illustrator - Bring Laptop		
	1/30	Paperfuge Activity		Homework #2 Due Safety Training and OWW Registration
3	2/3 2/4	Flow Control Laminar Flow and Mixing, Droplet Microfluidics	Wiki Textbook Chapter 4	
	2/6	Copyright and Fair Use	Wiki Textbook Chapter 5	Homework #3 Due Introduction to Illustrator, Microfluidic Mazes
4	2/11	Hands On Photolithography Training		
4	2/13	Hands On Soft Lithography Training		Homework Due Outline of Design Project Plan
5	2/18	**Monday Class Schedule**		
<u> </u>	2/20	Methods for Separation	Wiki Textbook Chapter 6	
	2/25	Course Introduction Syllabus, Literature & Design Assignments Scaling: micro- vs. macro-fluidics Microfabrication Materials, Photolithography, Soft Lithography Device Design Adobe Illustrator - Bring Laptop Paperfuge Activity **Last day to add/drop with no record ** Flow Control Laminar Flow and Mixing, Droplet Microfluidics Valving Strategies Copyright and Fair Use Hands On Photolithography Training Hands On Soft Lithography Training **Monday Class Schedule** Methods for Separation Wiki Textbool Wiki Textbool Wiki Textbool Wiki Textbool Wiki Textbool Wiki Textbool	Wiki Textbook Chapter 7	
6	2/27	S .	Wiki Textbook Chapter 3	Homework Due Preliminary Device Designs
7	3/3	Team Time		Harrania Bua
	3/5			Homework Due Preliminary Draft of Individual Wiki Pages

Week	Date	Торіс	Comments, Deadlines
8	3/10	TBD	
	3/12	TRD	Homework Due
	3/12	180	Device Designs
9			**Spring Break**
10	3/24	** Last day to drop with DR - Grad Students** **Last day to drop with "W" and select P/F** Hands On Team time	
	3/26	TBD	Homework Due Design Project Update
11	3/31	TBD	
	4/2	TBD	
12	4/7	TBD	
12	4/9	TBD	Homework Due Final Draft of Individual Wiki Pages
13	4/14	TBD	
	4/16	TBD	Homework Due Design Project Update
14	4/21	TBD	
	4/23	TBD	
15	4/28	TBD	
	4/30	**Reading Day**	Homework Due Individual Reflection Paper
16		Design Project Presentations (TBD)	Homework Due Final Design Report