

Faculty Sponsor: Andrea Bertozzi
Research Mentors: David Arnold, Claudia Falcon, Mike Lindstrom
Office: MS 7360 (DA & CF), MS 5622 (ML)
E-mail: darnold@math.ucla.edu, cfalcon@math.ucla.edu, mikel@math.ucla.edu
Lab Location: Math Sciences 3355

Weekly Group Meeting: Mondays, 5 - 6 pm
Occasional Lecture: Wednesdays, 5 - 6 pm

Course Description: Mathematical, numerical, and experimental study of particle laden flows on an incline.

Expectations: Experimental Work / Data Analysis: 3 h/week
 Report Writing: 1–2 h/week
 Weekly Meeting: 1–2 h/week

Grading System: Attendance: 45%
 Oral Exam: 25%
 Midterm Report: 5%
 Final Report: 10%
 Final Presentation: 15%

Week	Research Activity
1	M : April 3 rd (5 – 8 pm) – Lab Orientation, Registration, and Research Meeting T,R: Experiments – Bidensity Constant Volume , Data Analysis W: Modeling Lecture – Conservation Laws, Thin Film Theory Report & Data Interpretation
2	M: Research Meeting T,R: Experiments / Data Analysis - Bidensity Constant Volume W: Modeling Lecture - Thin Film, Diffusive Flux Model Report & Data Interpretation
3	M: Research Meeting T,R: Experiments / Data Analysis - Bidensity Constant Volume W: Matlab Report & Data Interpretation
4	M: Research Meeting T,R: Experiments / Data Analysis – Bidensity Constant Volume W: LaTeX & Academic Writing Report & Data Interpretation
5	M: Research Meeting (Data Analysts Presentation) T,R: Experiments / Data Analysis - Bidensity Experiment F: Midterm Report Due
6	M: Research Meeting T,R: Experiments/ Data Analysis - Bidensity Constant Flux Report & Data Interpretation
7	M: Research Meeting T,R: Experiments/ Data Analysis - Bidensity Constant Flux Report & Data Interpretation
8	M: Research Meeting & Presentation Skills T,R: Experiments/ Data Analysis – Bidensity Constant Flux Report & Data Interpretation
9	M : Memorial Day (No Meeting) T,R: Experiments/ Data Analysis - Bidensity Constant Flux W: Research Meeting Report & Data Interpretation
10	M - Research Meeting & Practice Presentation W : June 7 (5pm) - Final Presentation @ MS 5233 W - Final Report Due R - Oral Exams