

Schedule: Alanah Fitch, Fall, 2010					
Day	M	T	W	Th	F
8:30		Chem 311 Lab	Chem 311 Lab		
9:30				T.A. meeting	
10:30					
11:30-12:30				Chem. Seminar	
12:30	Lunch	Lunch	Lunch	Lunch	Lunch
1:40-2:30	Chem 310	Office Hours	Chem 310	Office Hours	Chem 101
0.11458333	Chem 311				
3:30					
4:30		Group Meetings			
5:30-6:30					

Office Department Phone email
 402 Flanner Hall Chemistry 508-3119 afitch@luc.edu

Office Hours: T,Th 1:40-3:30
 Skype: Evenings before 9 Handle: Lead lady

T.A.s:
 Anna Weiss, Rm 402 Flanner Hall, 773-508-3118
 Matthew Reichert, Rm 106 Flanner Hall, 773-508-3153

Tentative Lab Group Assignments

Lab	Group "1"	Group "2"
311-01 Monday 2:45-6:35 pm	Boyes Getzinger Savushkin Spencer	Fabiny Muscolino Soiya
311-02 Tuesday 8:30-12:20	Daley Gavin Parkara	Donatello Ngo
311-03 Wednesday 8:30—12:20	Adeoba Suljic	Peterson Tiedeman

Lab Schedule

Week	Monday	Group 1	Group 2	Fitch
1	18-Jan	No Labs	No Labs	x=starts lab
2	25-Jan	Statistics/Rm 314	Statistics/Rm 314	runs lab
3	1-Feb	Electronics/Rm 315	Electronics/Rm 315	x
4	8-Feb	ISE/Rm 402or315	ISE/Rm 402 or 315	x
5	14-Feb	IR/Rm 315	UV/ Rm 002	x
6	22-Feb	UV/Rm 002	IR/Rm 314	x
7	1-Mar	Fluorescence/Rm 402	Flame AA/ Rm 315	PittConn Orlando
8	8-Mar	Flame AA/ Rm 315	Fluorescence/Rm 402	x
9	15-Mar	Spring Break	Spring Break	x
10	22-Mar	NMR/Rm 107	ASV/Anna/Rm 402	x
11	29-Mar	ASV/Anna/Rm 402	NMR/ Rm 107	x
12	5-Apr	Sample Prep/ Rm 203	Circular Dichroism/ Rm 315	x
13	12-Apr	Sample Anal	Sample Prep/ Rm 2003	x
14	19-Apr	ICP-MS/ Rm 314	Sample Anal	x
15	26-Apr	Circular Dichroism/ Rm 315	ICP-MS/ Rm 314	ECS Vancouver

311 Lab

Text: Lead Lab

Materials required: lab book with carbon pages, computer memory

Group work:

Students will work in groups of no more than 3 and no more than two groups per lab section. The group will be responsible for assigning work associated with the making of standards and the operation of each piece of equipment.

Group composition: Groups will be formed in the first week of lab. Students will interview each other for similarity of commutes and work habits in order to ensure that all members of a group can meet at some mutually agreeable time. Your best friend does not necessarily make your best lab partner in this context.

Scope of Work: Students **must pre-read** the lab. Sometimes work out of assigned class period is required. This will be compensated by cancelling lecture periods.

Each Student Will be monitored to ensure proper rotation of work.

The Weekly Reports

Labor division:

- a) Data collection, tabulation, summarizing
- b) Research
- c) Editing and Copying

are three tasks associated with each report. Each person in the group **must** rotate tasks.

Attach the following sheet to each lab (see next).

What the report looks like:

- a) introduction
- b) materials and methods
- c) reduced data (graphs and tables). Graphs are to be inserted immediately after the first reference to the graph in the text. Graphs are to be labeled 1, 2, 3, etc. with a descriptive title.
- d) **an essay that is not simply a list of answers to questions**
- e) raw data

What you turn in:

- a) The typed report
- b) Work Distribution Form, with division of labor signed by each student
- c) Carbon copy from page of labbook from each student
- d) Individual data as relevant

When you turn it in:

Next lab

Provisional grade given

Edited and redone material with the original submission containing faculty commentary must be re-turned in 1 week after faculty edits.

One rewrite only are allowed.

What if my group drives me nuts?

The groups can/will be configured three weeks into the semester. Be frank with your colleagues about their effort. If the group doesn't think you are pulling your weight you will end up doing **ALL** the work yourself!!

Lab	Student: _____	Student: _____	Student: _____
Potatos	Data/Graphs Writing/Typing Research/Editing		
ADC	Data/Graphs Writing/Typing Research/Editing		
Pb(OH) ₂	Data/Graphs Writing/Typing Research/Editing		
Field Sampling	Data/Graphs Writing/Typing Research/Editing		
Sample Preparation	Data/Graphs Writing/Typing Research/Editing		
GFAA	Data/Graphs Writing/Typing Research/Editing		
Molecular Absorbance	Data/Graphs Writing/Typing Research/Editing		
IR	Data/Graphs Writing/Typing Research/Editing		
NMR	Data/Graphs Writing/Typing Research/Editing		
Mass Spec	Data/Graphs Writing/Typing Research/Editing		
ASV	Data/Graphs Writing/Typing Research/Editing		
CV	Data/Graphs Writing/Typing Research/Editing		
HPLC	Data/Graphs Writing/Typing Research/Editing		
GC	Data/Graphs Writing/Typing Research/Editing		

This page should be inserted with each lab report:

Method	Limit of Detection ug Pb/g solution	Linear Range ugPb/g	Interferences	Ease of Use: Solvent and/or Toxic Materials Used
Gravimetric (Chromate)				
Ion Selective Electrode				
Dithizone				
Calcein Blue				
ASV				
FAA				
GFAA				
ICP-MS				
IR				
NMR				
GC				