

Introduction to Chemical Research Techniques

Chemistry 129 – Fall 2006

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Requirements: One of the following: Chem 0123, 0124, 0183, 0184, 0193, or 0194.

Course Description: Choice and statement of a research problem. Use of scientific literature, scientific method, design and execution of experiments, data analysis, drawing conclusions, and writing and presenting scientific reports and papers. Note: This course is a prerequisite for all chemistry laboratory courses numbered 0200 and above. Mode: One hour lecture per week.

Textbooks: [Quantitative Chemical Analysis, 7th Ed.](#) by Daniel Harris, Pub: W. H. Freeman & Co.

Class Day & Time: Fri 2:40 AM - 3:30 PM Barton BA140

Office Hours: Before class or by appointment.

Grades: Course grades will be based on a $\geq 90\%$ A/A-, $\geq 80\%$ B+/B/B-, $\geq 70\%$ C+/C/C-, etc. of the total points earned. No late homework assignments or lab reports will be accepted; zero grades will be recorded.

Homework	75 %
Final	25%
Total	100%

Calendar of Events:

Week		M	T	W	R	F	Topic
1	Aug	28	29	30	31	1	Introduction Sig Figs
2		4	5	6	7	8	Proper use of glassware
3	Sep	11	12	13	14	15	Lab equipment tolerances
4		18	19	20	21	22	Error Analysis
5		25	26	27	28	29	Error Analysis
6		2	3	4	5	6	Statistics
7		9	10	11	12	13	Statistics
8	Oct	16	17	18	19	20	Linear regression stats
9		23	24	25	26	27	Nonlinear regression
10		30	31	1	2	3	Data Modeling
11		6	7	8	9	10	Data Modeling
12	Nov	13	14	15	16	17	Data Modeling
13		20	21	22	23	24	Data Smoothing
14		27	28	29	30	1	Review
15	Dec	4	5	6	7	8	No class this week

Other Policies:

- All students must have a Temple email address – check it daily for course information.
- Enrollment in a course implies intent to attend regularly.
- Excessive absences may be reported to your adviser, may jeopardize your grade, or may jeopardize your continuance in the course. You are responsible for missed work.
- Incomplete Course Work: Reserved for emergencies only and requires a written agreement describing the nature of the work to be completed and the completion deadline. A default grade must be stated and will be entered if the student's work is not completed or if the instructor does not change the "I" grade within one year.
- Last day to drop, Monday September 12.
- Last day to withdraw (no refund): Monday October 31. Students who have previously withdrawn from this course, or who have already withdrawn from 5 courses since September 2003 may not withdraw.