

Chem 4190/6190 Summer 2016

Instructors: **Dr. Tarushee Ahuja** – Lecture (MW 9:00am-10:45am)
TR Session Lab (3.00pm-6.30pm)
Office: 208 Courtland North, email: tahuja1@gsu.edu
Office Hours: TR 1:30pm-3:00pm

Dr. Bin Xu – Lab MW Session (MW 11:00pm – 2:30pm)
Office: 203 Courtland North; email: bxu6@gsu.edu
Office Hours: TR 1.30pm -2:30pm

Ms. Jennifer Novak -Lab TR Session (11:00am-2:30pm)
Office: 210 Courtland North, email: jnovak4@gsu.edu
Office Hours: By appointment only

Location: Lecture: Sparks Hall 300
Lab: Kell 698

Text: Principles of Instrumental Analysis, Sixth Edition, 2007
Authors: Skoog, Holler and Crouch
Publisher: Harcourt Brace Javonovich College Publisher

Online

Material: D2L Brightspace

Final Exam: 27th July, Wednesday 8:00am-10.30am, Sparks Hall 300.

Course

Prerequisites: Chem 4000/6000 and Chem 4120/6120 or their equivalents.

Study Tips: Attend all the classes and do homework to get better scores.

Grading: 30 min quizzes will be given during the lecture every Wednesdays starting from the second week. It will be over material covered during the previous week of lecture. The lowest two quizzes score will be dropped. No open book, but one little sheet of notes (only literature, formulas or constants values) can be brought.

Grade Breakdown:

Lab Reports, Lab, Quizzes, notebook	30%
Lecture Quizzes	40% (40 marks each)
Final Exam	30% (120 marks)

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Letter grades are assigned based on the following scale (double the marks earned):

Total Course Points Earned	Total Course Points Earned (%)	Letter Grade
>765	>95.6	A+
720-764	90.0-95.5	A
696-719	87.0-89.9	A-
684-695	85.5-86.9	B+
640-683	80.0-85.4	B
616-639	77.0-79.9	B-
584-615	73.0-76.9	C+
560-583	70.0-72.9	C
536-559	67.0-69.9	C-
480-535	60.0-66.9	D
<480	<60.0	F

The quizzes and final exam will be almost exclusively on material covered in the lectures.

Tentative Schedule

DATE	LECTURE NO.	SUBJECT	READING
6/6 M	1	Orientation, Syllabus Discuss UV Visible	Chapter 6
6/8 W	2	UV-Visible	Chapter 6/7
6/13 M	3	UV-Visible	Chapter 7
6/15 W	4 Quiz 1	UV-Visible	Chapter 13
6/20 M	5	UV-Visible	Chapter 14
6/22 W	6 Quiz 2	Fluorescence	Chapter 15
6/27 M	7	Fluorescence	Chapter 15
7/29 W	8 Quiz 3	Error Analysis, Dynamic Light Scattering, Misc. topics i.e. CD	Appendix 1, Chapter 34
7/4 M	9	Holiday	
7/6 W	10 Quiz 4	IR	Chapter 16
7/11 M	11	IR	Chapter 16/17
7/13 W	12 Quiz 5	Raman Scattering Mass Spectroscopy	Chapter 20

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7/18 M	13	NMR	Chapter 19
7/20 W	14 Quiz 6	NMR	Chapter 19
7/25 M	15	Review, catch up	All
7/27 W	16	FINAL	All