

Quantum Chemistry
Chem 671
Fall 2012 Syllabus

Instructor: Lars Gundlach

LDL 109

Tuesdays 11-12, and by appointment

MWF 12:20 – 1:10

Brown Lab 116

Text: J. P. Lowe, K. A. Peterson, Quantum Chemistry, 3rd Edition, Elsevier, 2006 (required)
 I. Levine, Quantum Chemistry, 6th Edition, Prentice Hall, 2009 (recommended)
 D.A. McQuarrie, Quantum Chemistry, 2nd Edition, University Science Books, 2008 (opt.)

Reading assignments refer to Lowe's textbook. The outline of the course follows Levine's textbook.

	Date	Reading	Problem sets
1	Wednesday, August 29, 2012	Chapter 1	
2	Friday, September 31, 2012		
3	Monday, September 03, 2012	Labor Day - Holiday	
4	Wednesday, September 05, 2012	Chapter 1	
5	Friday, September 07, 2012	Chapter 6.1-6.12	
6	Monday, September 10, 2012		#1 out
7	Wednesday, September 12, 2012		
8	Friday, September 14, 2012	Chapter 2	
9	Monday, September 17, 2012		#1 in - #2 out
10	Wednesday, September 19, 2012		
11	Friday, September 21, 2012	Chapter 3	
12	Monday, September 24, 2012		#2 in - #3 out
13	Wednesday, September 26, 2012		
14	Friday, September 28, 2012		
15	Monday, October 01, 2012	Chapter 4	#3 in - #4 out
16	Wednesday, October 03, 2012		
17	Friday, October 05, 2012		
18	Monday, October 08, 2012		#4 in - #5 out
19	Wednesday, October 10, 2012		
20	Friday, October 12, 2012	Chapter 6.1-6.16	
21	Monday, October 15, 2012		#5 in
22	Wednesday, October 17, 2012		
23	Friday, October 19, 2012	Exam on Chapters 1-4+6	
24	Monday, October 22, 2012	Chapter 7	#6 out
25	Wednesday, October 24, 2012		

26	Friday, October 26, 2012	Chapter 7	
27	Monday, October 29, 2012	Chapter 9	#6 in - #7 out
28	Wednesday, October 31, 2012		
29	Friday, November 02, 2012	Chapter 12	
30	Monday, November 05, 2012		#7 in - #8 out
31	Wednesday, November 07, 2012		
32	Friday, November 09, 2012	Chapter 5	#9 out
33	Monday, November 12, 2012		
34	Wednesday, November 14, 2012		#8 in
35	Friday, November 16, 2012		
36	Monday, November 19, 2012	Chapter 11	#9 in
37	Wednesday, November 21, 2012	Thanksgiving Break	
38	Friday, November 23, 2012		
39	Monday, November 26, 2012	Exam on Chapters 5,7,9,12	
40	Wednesday, November 28, 2012	Chapter 11	
41	Friday, November 30, 2012		
42	Monday, December 03, 2012		
43	Wednesday, December 05, 2012		

Nine problem sets will be handed out and collected on Mondays.

A 3 hour Final Exam will be given.

Grade weight: Homework 10, two Exams 25 each, Final Exam 40