

CHM B20H3 and B23H3  
*Chemical Thermodynamics and Elementary Kinetics*  
2019-2020

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**Textbook:** *Physical Chemistry* 11th Ed., vol. 1  
by Atkins, de Paula and Keeler

<b>Grading:</b>	<b>CHM B20</b>	<b>CHM B23</b>
2 in-class tests	(15% + 25% ) = 40%	(10%+20%) = 30%
5 assignments	5 x 5% = 25%	5 x 3% = 15%
Laboratory & tutorial		20%
Final exam	35%	35%

**Office Hours:** Monday & Wednesday 10-12 *or by appointment*

If you miss a test or an assignment (without my prior written consent), you will need to provide an official UTSC medical note (or do some really good talking!) in order to avoid a mark of zero.

***Except under special circumstances, arranged with me, there will be no make-up tests.*** If you miss a test, the weighting will be adjusted to give more to the other test and to the final exam.

Cheating on tests and assignments will be dealt with very harshly. Although I do encourage group discussion of how to solve problems, I expect each student to produce an individual assignment to hand in. It is very obvious to the markers when one person has done the work and others have copied it.

# Lecture Schedule

(Note that this may change somewhat)

Week	Dates	Chapter reference	notes
1	Sept 4	Chapter 1A	
2	Sept 9, 11	Chapter 1B,C	
3	Sept 16, 18	Chapter 2A,B,C	<i>Assignment 1 due Sept 18</i>
4	Sept 23, 25	Chapter 2D,E; 3A,B,C	
5	Sept 30, Oct 2	Chapter 3D,E; 4A,B	<b><i>Test 1 Oct 2 (Chapter 1-3)</i></b>
6	Oct 7, 9	Chapter 5A,B,C	<i>Assignment 2 due Sept 25</i>
----- READING WEEK -----			
7	Oct 21, 23	Chapter 5F; 6A,B,C,D	
8	Oct. 28, 30	Chapter 16	<i>Assignment 3 due Oct 30</i>
9	Nov 4, 6	Chapter 17A,B,C,E	<b><i>Test 2 Nov 6 (Chapter 4,5,6,16)</i></b>
10	Nov 11, 13	Chapter 17F,D; 18A,B	<i>Assignment 4 due Nov 13</i>
11	Nov 18, 20	Chapter 18C; 19A	
12	Nov 25, 27	Chapter 19B,C	<i>Assignment 5 due Nov 27</i>
13	Dec 2	Review	

***I will try to reserve the Wednesday lectures for problem-solving, discussions and for going over some new mathematical concepts***

## Lab and Tutorial Schedule

Week	Dates	Experiment	P01	P02
1	Sept 4			
2	Sept 12	Thermochemistry	T1	
3	Sept 19		L1	T1
4	Sept 26		T2	L1
5	Oct 3		L2	T2
6	Oct 10	Equilibrium constant and rxn enthalpy	T3	L2
7	Oct 24		L3	T3
8	Oct. 31	Kinetics of fluorescence quenching	T4	L3
9	Nov 7		L4	T4
10	Nov 14	Adsorption from solution	T5	L4
11	Nov 21		L5	T5
12	Nov 28			L5