

Fall syllabus

In the following chart, notice that we will present an integrated treatment of chemistry and physics topics, and that there will be no new mathematics material after week 7.

WEEK	CHEMISTRY & PHYSICS lecture, workshops and lab (weeks 1-7, 4.5 hours per week plus lab; weeks 8-9, 10 hours per week plus lab)	CALCULUS lecture and workshops (weeks 1-7, 6 hours per week)	SEMINAR
1	some fundamentals	functions	historical, biographical, and cultural readings and weekly discussion
2	moles and equations	functions	
3	stoichiometry	concept of derivatives	
4	momentum	concept of derivatives	
5	energy	concept of integrals	
6	thermal energy/enthalpy	shortcuts to differentiation	
7	energy in bonds	shortcuts to differentiation	
8	light and atomic spectra		
9	quantum model of periodic table		
10	valence bond theory		

Expected quarter-hour equivalencies for Fall: calculus 4, university physics 5, university chemistry 5, humanities 2.

Tentative weekly schedule (NOTE: homework will require an average of 15-20 additional hours each week; please make specific arrangements in your weekly schedule for this.)

TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:45-11:45 Chemistry/Physics	9:00 am - 1:00 pm Lab	9:45-11:45 Calculus*	9:45-11:45 Seminar
2:00-4:00 pm Calculus* (optional phys/chem/cal c help session 4:15-5:30)	1:00-2:00 pm Student Program Governance	2:00-4:00 pm Chemistry/Physics (optional phys/chem/cal c help session 4:15-5:30)	2:00-4:00 pm Calculus*

* = (calculus weeks 1-7, then chemistry/physics)

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