Approximate **course calendar** **(version2, 7 Feb)**

Week	Day	Date	Topic/Goal
			Asking Questions: Learning to Think like a Biochemist
1	M	Jan. 17	Introduction to the course and to "advanced" biochemistry Monday Lab: Finding biochemical answers, part I (gaining comfort with the biochemical literature); Formation of groups for research proposals, overview of a research proposal
	W	19	What is "Memory"?; Asking Biochemical Questions: experimental design, and the nature of scientific information and communication
	F	21	Discussion of experimental design scenarios Friday Lab: Finding biochemical answers, part I (gaining comfort with the biochemical literature); Formation of groups for research proposals
2		this week	meet with your lab partners outside of class to discuss possible lab projects
	M	Jan. 24	Martin Luther King celebration; no class or lab
	W	26	An introduction to the scientific exploration of Memory
	F	28	Molecular events in neurotransmission I: action potentials Lab on Friday week2/Monday week3: common experimental questions we ask in Biochemistry and Molecular Biology
3		this week	meet with your lab partners outside of class to discuss your lab project
	M	Jan. 31	Molecular events in neurotransmission II: ion channels
	W	2	CLASS CANCELLED due to Ice
	F	4	Molecular events in neurotransmission III: neurotransmitters Lab on Friday week3/Monday week4: General and Specific Aims, Citing and Summarizing scientific sources **Research Project Topic due (not graded)** **Problem set #1 handed out (due next Monday)**
4	M	Feb. 7	Molecular events in neurotransmission IV: receptor-mediated signal transduction cascades
	W	9	Asking questions about the biochemistry of neurotransmission…
	F	11	*Cool science Friday* **Research Project Core Bibliography and General Aims due (not graded)** **Problem set #1 due** Lab on Friday week4/Monday week5: consultations with individual groups about your projects (sign up for appointments at the start of lab)
5	M	Feb. 14	…and understanding the answers
	W	16	Critical analysis of scientific data: dissecting a figure (QEMDI) **Research proposal draft of Background and Significance due (not graded)**
	F	18	Asking Biochemical Questions about neuroscience: wrap session **Problem set #2 handed out (due next Wednesday)** Lab on Friday week5/Monday week6: **brief presentations on your research proposals**
			Learning and Memory: a molecular perspective

6	M	Feb.	21	*Research case #1: Simple systems for exploring basic phenomena*
	W		23	**Problem set #2 due**
				Research proposal Specific Aims due (not graded)
	F		25	Lab F6M7: individual group consultations on "wet" experimental work; **Schematic relating Specific Aims with Experimental Plan developed during lab (handed in; not graded)**
7	M/W/F			*Research case #2*
	W	Mar.	2	**Problem set #3 handed out (due next Wednesday)**
				Research proposal draft of Experimental Plan due (not graded)
				Lab F7M8: prepare protocols and reagents for "wet" experimental work
8	M/W/F			*Research case #3: Long-term potentiation*
	W	Mar.	9	**Problem set #3 due**
	F	Mar.	11	*Cool science Friday*
				Research proposal full draft of research proposal due for preliminary grading
				Lab F8M9: begin "wet" experimental work
				* ** SPRING BREAK!** *
9	M/W/F			*Research case #4: synaptic strengthening*
	F	Mar.	25	**Problem set #4 handed out (due next Wednesday)**
				Lab F9M10: peer review of research proposals
10	M/W/F			*Research Case #5: can spines learn?*
	W	Mar.	30	**Problem set #4 due**
				Lab F10M11: "wet" experimental work (week 2)
11	M/W/F			*Research case #6: synaptic tagging*
	F		8	*Cool science Friday*
				Research proposal preliminary grades reported
				Lab F11M12: "wet" experimental work (week 3)
12	M/W/F			*Research Case #6: the science of forgetting*
	F	Apr.	15	**Problem set #5 handed out (due next Wednesday)**
				Lab F12M13: "wet" experimental work (week 4)
13	M/W/F			*Class picks: cool new research in learning and memory*
	W		20	Course evaluations for 9:30 class (10:00 to 10:20, T428)
				Problem set #5 due
				Lab F13M14: "wet" experimental work (week 5)
14	M/W/F			*Class picks: cool new research in learning and memory*
	M		25	Course evaluations for 10:30 class (10:30 to 10:50, T428)
				Lab F14M15: **brief presentations on your proposals and experimental results**
15	M	May	2	So much cool science, so little time...
				Final, revised draft of research proposal due
		May	4-11	**Final (oral) exams**, by appointment