

BIO 365L Semester Schedule: Spring 2010 Tuesday 1:00-6:00

Week	Date	Module	Activities	Assignments
1	Jan 26	Passive Properties	Lecture: Introduction to course: Lab Reports & expectations Membrane biophysics, ohms law, RC circuits Intro to physiology rig & software Student exercises : Model –cell measure membrane resistance & tau Prepare two figures: 1) traces with exponential fits 2) VI plot Lecture on patch clamp technique, microscopy, & slice prep Bridge balance and capacitance compensation Patch clamp demonstration Student Exercises: Bridge balance and capacitance compensation with model cell.	Browse and become familiar with Class Website, LabWrite website, and Blackboard
2	Feb 2		Student Experiments	Blog 1 Due Monday Feb 1 st 8:00 am PreLab 1 Due Mon. Feb 1 st 8:00 am
3	Feb 9		Student Experiments	Blog 2 Due Monday Feb 8 th 8:00 am Homework 1 Due Tuesday Feb 9 th
4	Feb 16		Finish Experiments, Finalize Figures & Analysis, Quick data presentations & discussion	Equiz 1 – completed <i>before</i> class Quiz 1- in class
5	Feb 23	Active Properties: Action Potential Generation	Lecture: electrochemical gradients Synaptic integration and AP mechanisms Begin Experiments	*Blog 3 Due Mon. Feb 22 nd 8:00 am *Lab report 1 Due Friday Feb 26 th by end of the day.
6	Mar 2		Student Experiments	Blog 4 Due Monday Mar 1 st 8:00 am PreLab 2 Due Mon. Mar 1 st 8:00 am
7	Mar 9		Student Experiments	Blog 5 Due Monday Mar 8 th 8:00 am Homework 2 Due Tuesday Mar 9 th
8	Mar 16		NO CLASS: Spring Break	Relax
9	Mar 23		Student Experiments	Blog 6 Due Mon. Mar 22 nd 8:00 am Equiz 2 – completed <i>before</i> class Quiz 2 – in class
10	Mar 30		Finish Experiments , Finalize Figures & Analysis, data presentations & discussion	Blog 7 Due Mon. Mar 29 th 8:00 am
11	Apr 6	Synaptic Transmission	Lecture : synaptic transmission & plasticity Begin experiments	Lab Report 2 Due Monday Apr 5 th at 8:00 am
12	Apr 13		Student Experiments	Blog 8 Due Monday Apr 12 th 8:00 am PreLab 3 Due Mon Apr 12 th 8:00 am Homework 3 Due Tuesday Apr 13 th
13	Apr 20		Student Experiments	Blog 9 Due Monday Apr 19 th 8:00 am Equiz 3 – completed <i>before</i> class Quiz 3 – in class
14	Apr 27		Student Experiments	Blog 10 Due Mon. Apr 26 th 8:00 am
15	May 4		Last Day of Class: Course Evaluations & Feedback Finish Experiments, Finalize Figures & Analysis, Quick data presentations & discussion	Lab report 3 Due Friday May 14 th By End of Day