

**BMI 811 Biology for Neuroscience Research**  
**Lecture Schedule - Summer 2012**

<b>Date</b>	<b>Topic</b>	<b>Assigned Chapters</b> <i>Campbell Biology, 9<sup>th</sup> ed.</i>
6/25	Course Mechanics & Overview Chemistry Review; Functional Groups	1 – 4
6/26	Macromolecules	5
6/27	Cell Organization and Activities	6
6/28	Membrane Structure and Function	7
6/29	Introduction to Metabolism Cellular Respiration: Glycolysis	8 9
7/02	Cellular Respiration: Krebs Cycle & Electron Transport Chain, Intro to Photosynthesis	9
7/03	Cell Cycle, Mitosis, Meiosis, Inheritance, Genetic Variation	12 13
7/04	Independence Day - Holiday - Class Closed	
7/05	Chromosomal Basis of Inheritance Molecular Basis of Inheritance	15 16
7/06	Transcription and RNA Processing Translation and Mutations	17 17
7/09	Regulation of Gene Expression Gene Expression & Cellular Differentiation, Gene Silencing	18
7/10	Cell Communication & Apoptosis	11
7/11	Viruses Biotechnology	19 20
7/12	Hormones and the Endocrine System	45
7/13	Animal Development	47

**Text: *Biology* by Campbell, Reece, Pearson, 9<sup>th</sup> edition, Benjamin Cummings Publishers (There isn't much difference between the 8<sup>th</sup> 2009 and 9<sup>th</sup> edition so you can easily get by with the 8<sup>th</sup>). You need to get the text by yourself.**