

**140 Cell Biology Laboratory Syllabus  
Fall 2009**

<b><u>Week of:</u></b>	<b><u>Laboratory Exercise</u></b>
Aug. 24 <sup>th</sup>	1 - General Practice in the Biology Laboratory
Aug. 31 <sup>st</sup>	2 - Microscopy ( <b>LAB COATS!</b> ) (10 point quiz)
Sept. 7 <sup>th</sup>	3 - Mitosis and the Cell Cycle (10 point quiz)
Sept. 14 <sup>th</sup>	4 - Isolation of Nuclei and Mitochondria from Cauliflower Florets by Differential Centrifugation (10 point quiz, 25 point lab report written on this exercise)
Sept. 21 <sup>st</sup>	5 - Photometry (10 point quiz, lab report due)
Sept. 28 <sup>th</sup>	7 - Membrane Permeability (10 point quiz <b>and</b> 10 point working flow chart)
Oct. 5 <sup>th</sup>	8 - Diffusion and Osmosis (10 point quiz)
Oct. 12 <sup>th</sup>	<b>NO LABS - FALL BREAK</b>
Oct. 19 <sup>th</sup>	9 - Separation and Identification of Plant Leaf Pigments and Determination of Pigment Absorption Spectra Part I. Chromatography (10 point quiz)
Oct. 26 <sup>th</sup>	9 - Part II. Determination of the Pigment Absorption Spectra (10 point quiz)
Nov. 2 <sup>nd</sup>	10 - Carbohydrates (10 point quiz and working flow chart, 25 point lab report written on this exercise)
Nov. 9 <sup>th</sup>	11 - The Extraction and Activity Measurement of the Carboxyl Ester Hydrolase Activity of Etiolated Pea Seedlings (10 point quiz, lab report due)
Nov. 16 <sup>th</sup>	<b>COMPREHENSIVE WRITTEN FINAL</b> (75 points)

