

**Biology 436****Human Physiology Lab  
Syllabus****Spring 2009**

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Office Hours: Available for appointments on Mondays 10-1 or Tues 10-1:30. Appointments must be made at least the day before.

Week of:	Topic	(N) Norgard-Sumnicht, (S) Stabler
Jan. 19	Introduction and Check In	
26	Notebooks, Computers, Graphs & Homeostasis	(N) - Ex 1
<b>Write-Up</b> Feb. 2	Diffusion, Osmosis, Cell Membrane Permeability	(N) - Ex 2
9	Enzyme Function & Scope & Transport	(N) - Ex 3, (S) 1&8
<b>Write-Up</b> 16	<a href="#">Frog Sciatic Nerve Study</a>	(N) - Ex 4, (S) 3***
23	Human Reflexes & Receptors	(N) - Ex 5
<b>Write-Up</b> March 2	<a href="#">Frog Nerve-Skeletal Muscle Study</a>	(N) - Ex 6
9	<b>Exam 1 – March 11th during Lecture</b> Blood Analysis Simulation	(S) – 11 ( <b>BRING BOTH LAB MANUALS TO LAB</b> )
16	<a href="#">Cardiac Muscle Demo &amp; Simulation</a>	(N) - Ex 7, (S) 6 ( <b>BRING BOTH LAB MANUALS TO LAB</b> )
23	CV Dynamics	(S) 5
30	NO LECTURE/LAB – SPRING BREAK	
<b>Write-Up</b> April 6	Human Electrocardiograms	(N) - Ex 8
13	Human Respiratory Study	(S) 7 & 10
20	Human Response to Exercise	(N) - Ex 9
27	Kidney Simulation	(S) 9 & 10 ( <b>BRING BOTH LAB MANUALS TO LAB</b> )
May 4	Review – No Labs	
<b>May 13</b>	<b>FINAL – During Lecture Time</b>	

\* Norgard-Sumnicht et. al. - *Lab Exercises for Human Physiology*

\*\* Stabler et.al. - PhysioEx 8.0

\*\*\*This one particular simulation will only be done if the frogs do not arrive for the class.

**CLASS ADVICE:** This will be a very fast paced course and at times intensive, it is assumed that since you have already taken a physiology class (or are currently enrolled), that only comprehensive reviews of the material covered in the labs will be required and given. Being an upper division, undergraduate laboratory course also implies that you demonstrate a fairly "in depth" knowledge of physiology as determined by examination.

**Important Note:** Attendance of labs is mandatory! Attendance is taken at each meeting, and **missing more than one lab without a legitimate excuse will result in a failing grade.**