

# MCB 404 Orientation

Carl Malmgren

Molecular & Integrative Physiology (MIP)

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Office - 220 Burrill Hall, 244-6574

Lab - 230 Burrill Hall, 333-7029

<http://mipwww.life.uiuc.edu>

MIP Main Office - 333-1375

# Reminder

- Password for the server is “???????” your TA will let you know in lab
- All sections have quizzes next week (starting 1-26-2009).
- Lecture in in 165 Noyes Lab at 12 noon on Mondays.

## Syllabus

Lab #	Dates	R	O	A	Experiment & Notes
	1-20-2009				Orientation. TAs gives her/his introduction. 124 Burrill Hall
Lab # 1	1-26-2009		O <sub>1</sub>		Basic Neuro-Physiology.
Lab # 2	2-02-2009		O <sub>1</sub>		Experimental Neuro-Physiology. <sup>1</sup>
Lab # 3	2-09-2009	R <sub>1</sub>			Human Respiration Physiology.
Lab # 4	2-16-2009			A <sub>1</sub>	Cardiovascular Response to Exercise <sup>1</sup>

- You will turn in your lab proposal for lab #4 *Human Respiratory Physiology* in place of your quiz for lab #4. Your TA will be explaining in lab.

# Goals

- Overview
- Prerequisites
- Electronic environment
  - Server
  - Web
- Syllabus
- Communication
- Rules

People, Places and Numbers				
<u>Name</u>	<u>Office</u>		<u>Phone #</u>	
Carl Malmgren	Lab Director	Rm 230 Burrill Hall (Lab) Rm 220 Burrill Hall (Office)	3-1720 4-6574	
	E-Mail: <a href="mailto:Malmgren@uiuc.edu">Malmgren@uiuc.edu</a>			
TAs				
<u>Name</u>	<u>Section #</u>	<u>Office</u>	<u>Phone #</u>	
Vanessa Noboa	1 & 5	414 BH	244-5741	
	E-Mail: <a href="mailto:vnoboa2@uiuc.edu">vnoboa2@uiuc.edu</a>			
Brian Wilson	2 & 4	2514 Beckman Institute	____-____	
	E-Mail: <a href="mailto:bmwilson@illinois.edu">bmwilson@illinois.edu</a>			
Labs:				
	<i>Section #</i>	<i>Day</i>	<i>Time</i>	<i>TA</i>
	1	Monday	2-6 pm	Vanessa Noboa
	5	Tuesday	8 am - 12 noon	Vanessa Noboa
	2	Tuesday	1-5 pm	Brian Wilson
	4	Thursday	1-5 pm	Brian Wilson

# Student Orientation ↴

## Systems & Integrative Physiology

### Overview ↴

This course is an upper level physiology laboratory course. We have approached teaching advanced physiology in the laboratory from a unique perspective, that of a research lab (within time (4 hr lab/week) and monetary constraints). Students are expected to take the initiative to prepare for the lab and when creating their lab reports, to do so in the form of a journal article. This course takes considerable time and effort. The reward is the ability to think independently, troubleshoot, and learn current techniques that are useful in research, graduate and medical school. ↴

### General Information: ↴

The syllabus (attached at end) will list Lab #, date, section, and topic for each lab. ↴

↴ Grading: ↴ ↴ ↴	↴ Category ↴	% of total ↴
	Midterm I: ↴	10 ↴
	Midterm II: ↴	10 ↴
	Final (concurrent with Midterm II): ↴	10 ↴
	Quizzes: ↴	12 ↴
	Reports: ↴	21 ↴
	Orals: ↴	12 ↴
	Abstracts: ↴	12 ↴
	Debate ↴	7 ↴
	<u>TA's Evaluation: ↴</u>	6 ↴
	Total ↴	100 ↴

# Prerequisites

Basic and Cellular physiology.

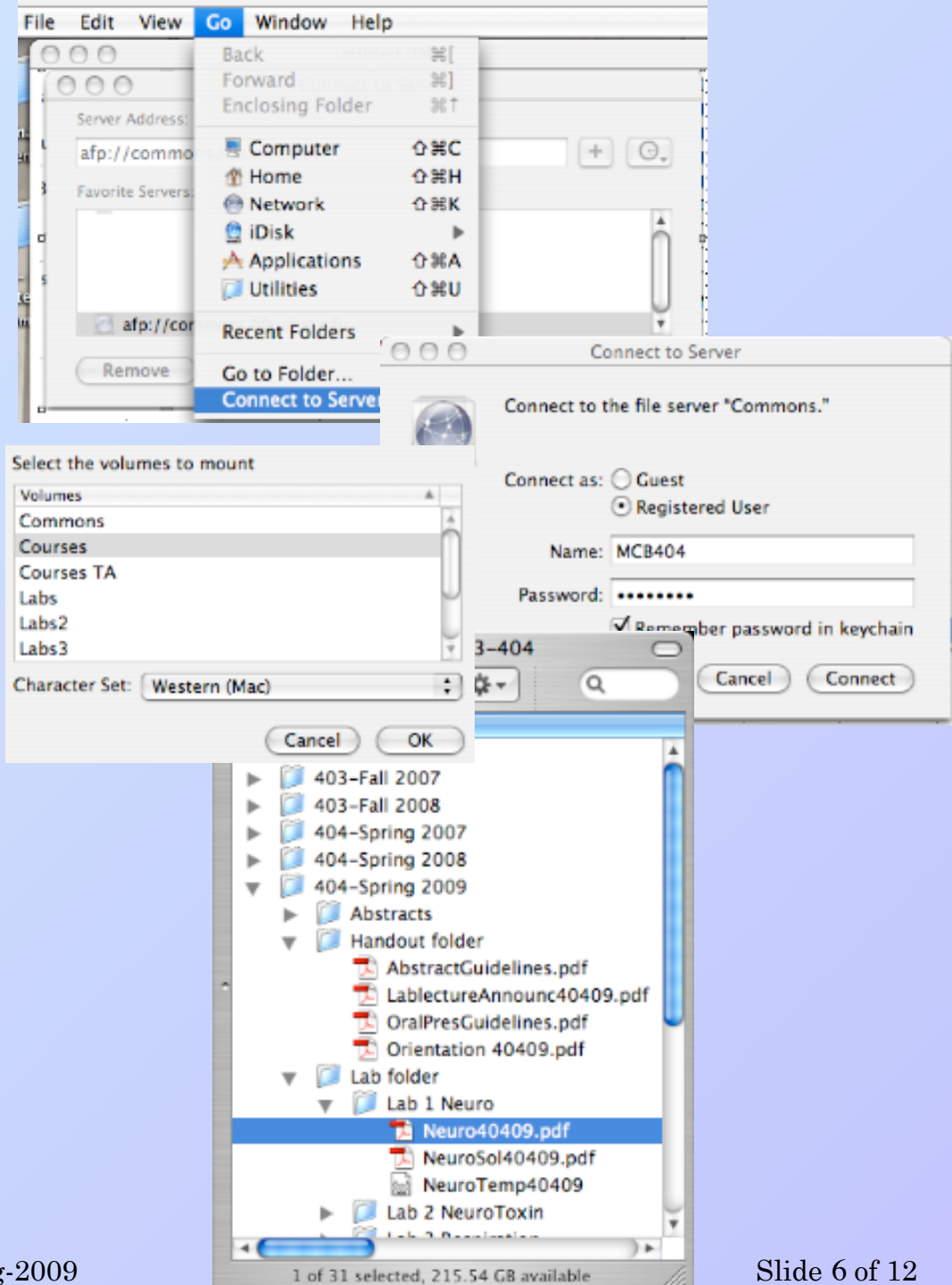
Scientific writing skills

Basic computer and server skills

# Electronic environment

- **Server**

- To access data, handouts and the like on our server, simply log on to the server (**afp://commons2.life.uiuc.edu**). ALL CITES sites support access to our server.
- Open the folder **MCB 403-404**, and then the folder **404-Spring 2009**
- Shown in Mac interface. Server show Windows “Mapping drive” instructions.



# Compass (for grades)



**CITES EdTech**  
Campus Information Technologies and Educational Services  
University of Illinois at Urbana-Champaign

EdTech provides consulting, for faculty, instructors

[Help](#) [Services](#) [About CITES](#)

EdTech Home
Use Our Services
Participate in Our Programs
Join A Community
Learn About Our Partner Projects
Conduct Research
Attend Our Events

**Investigate Educational Technologies :: Illinois Compass**

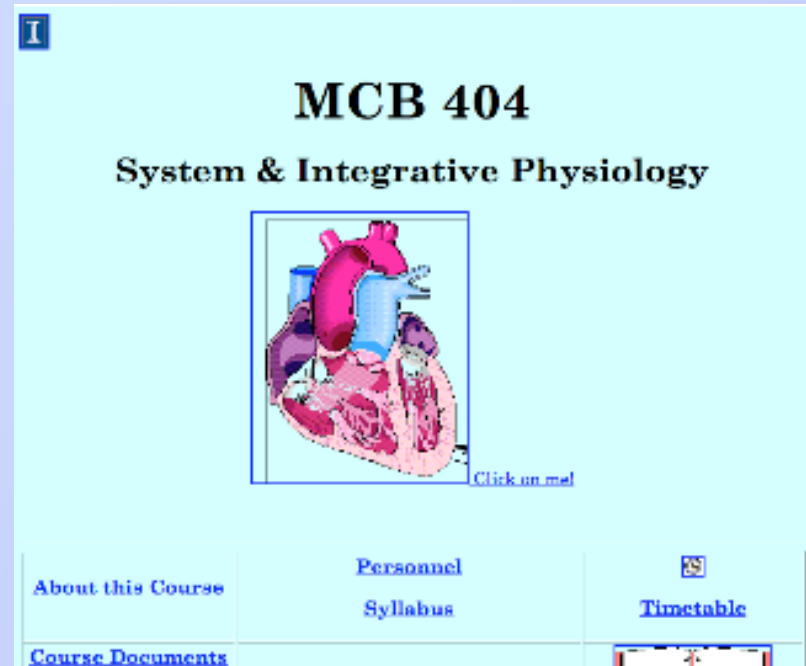
**Illinois Compass**

- [Illinois Compass Login \(http://compass.uiuc.edu\)](http://compass.uiuc.edu)
- [About Illinois Compass](#)
- [Instructor Resources](#)

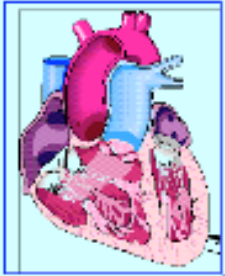
<https://compass-portal.cites.uiuc.edu/login.html>

# Electronic environment

## Course web site



**MCB 404**  
**System & Integrative Physiology**



[Click on me!](#)

<a href="#">About this Course</a>	<a href="#">Personnel</a>	<a href="#">Timetable</a>
<a href="#">Course Documents</a>	<a href="#">Syllabus</a>	

[http://mipwww.life.uiuc.edu/404\\_Master\\_Page.html](http://mipwww.life.uiuc.edu/404_Master_Page.html)

# Syllabus

	1-20-2009			Orientation. TAs gives her/his introduction. Lecture on Tuesday 1-20-09 due to MLK. No quiz this week.
Lab # 1	1-26-2009		O1	Basic Neuro-Physiology. Quizzes start/
Lab # 2	2-02-2009		O1	Experimental Neuro-Physiology.1
Lab # 3	2-09-2009	R1		Human Respiration Physiology.
Lab # 4	2-16-2009		A1	Cardiovascular Response to Exercise1
Lab # 5	2-23-2009		A2	Human Skeletal Muscle Physiology.
Lab # 6	3-02-2009		O2	Simulation of Cardiovascular Physiology1
Lab # 7	3-09-2009	R2		Autonomic Control of the Cardiovascular System
Lab #8	3-16-2009		Debate	BioEthics debate
	3-17-2009			Midterm I: Tue. March 17, 7 to 9 pm in TBA. Covers Labs 1 through 7.
	3-23-2009			Spring recess. NO Class.
Lab # 9	3-30-2009	R3		Endocrine Physiology (Implant) I.
Lab #10	4-06-2009	R3		Endocrine Physiology (BioAssay) II.
Lab #11	4-13-2009	R3		Endocrine Physiology (ELISA) III.
Lab #12	4-20-2009		A3	Hormonal Control of Active Na <sup>+</sup> transport.
Lab #13	4-27-2009		A3	Human Renal Physiology.
	5-05-2009			Midterm II & Final. Tue. May 5, 7-10 pm. in TBA. Covers Labs 8 through 13.

# Needed skills to succeed in this

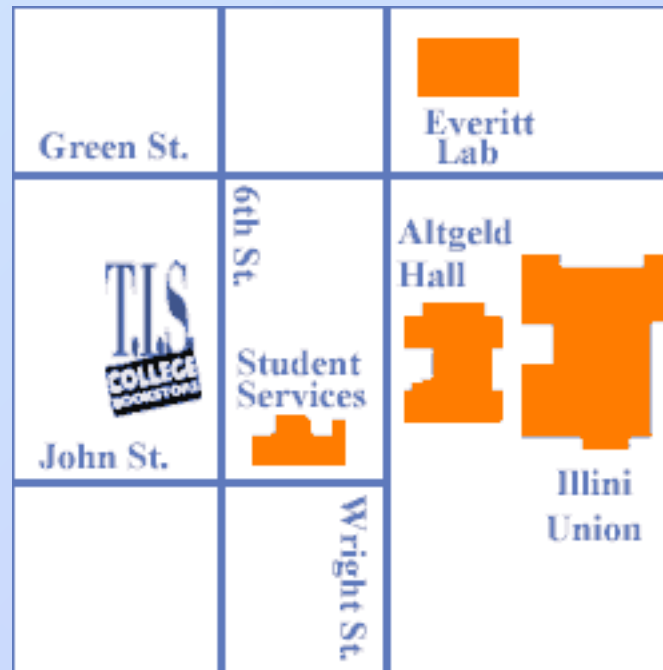
- Analytical skills
- Communication skills
- Willingness to complete projects

# Rules

- Don't poison self or others.
  - No food or drink in lab when toxins present
- Treat animals with respect and care!

# Lab Manual

UP CLOSE PRINTING SELLS THE MANUAL AT TIS BOOK STORE.



• YOU CAN ALSO PRINT FROM THE PDF FILES ON THE WEB/SERVER

# Pecking order

- You
- Vanessa or Brian
- Me
- Dr. Byron Kemper