**Zool 4820- Syllabus for Human Physiology Lab TAs – Spring 201~~5~~6**

**Time:** Tues 11:30-1:20,1:30-3:20,3:30-5:20 **Location:** SL426

 Wed 11:30-1:20, 1:30-3:20,3:30-5:20

**Instructor**: Dr. Nicole Berthelemy (Tuesday labs)

Dr. Michele Skopec (Wednesday labs)

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**Laboratory handouts:** Handouts explaining each week’s laboratory exercise will be available in your Zool 2200L Canvas course – these are the handouts students are expected to print, read and bring to lab. Example lectures, keys and quizzes are available through your Zool 4900 Canvas course.

**Objectives:** To obtain experience in preparing, running and assessing students in experiential learning activities in human physiology.

**Expectations:** You have been chosen as a human physiology laboratory (Zool 2200L) teaching assistant (TA) due to your high achievement as a student in your Zool 2200 and 2200L course and your desire to continue using the knowledge and skills you attained in that class. Due to the large size (~30 students) of the human physiology lab sections we have found that having two undergraduate teaching assistants for each lab section improves our ability to provide interpersonal interactions. As a TA you will be expected to write a 5 point weekly quiz, have a 5-10 minute lecture prepared to introduce the days laboratory activities, assist students in completing laboratory activities and grade laboratory protocols. You will be required to attend your assigned lab section each week (2 hours), as well prepare for lab and grade student assignments, which generally require 1 hour of time outside of class. The lab instructor will be present at the beginning of the class to help set-up and answer any questions and will be available throughout the class. Teaching Assistants will be trained on laboratory safety and on the students right to privacy.

**Grading:** Grades for students in Zool 2200L will be determined based on attendance, 13 in class quizzes and 15 lab protocols and attendance. In class quizzes are worth 5 points each and 30% of their overall lab grade. Completed lab protocols are worth 7.5 points each and 55% of their overall lab grade. Attendance is worth 2.5 points each and 15% of their overall lab grade. Students’ lowest in class quiz and lab protocol grades will be dropped from their average automatically by Canvas. You will be graded based on the quality of your quizzes (25%), pre-lab lectures (25%), grading (25%) and attendance (25%). If you know you will miss a week of lab please notify your instructor and co-TA as soon as possible so that alternate arrangements can be made.

Grades will be based on the percentage of total points attained.

A: 93-100% A-: 90-92% B+: 87-89% B: 83-86% B-: 80-82% C+: 77-79%

C: 73-76% C-: 70-72% D+: 67-69% D: 63-66% D-: 60-62% E: <60%

**Quizzes:** The in class quizzes are written and given by you, the TAs. They are worth 5 points each and should have 2-3 questions based on the previous week’s lab activity and 2-3 questions based on the current week’s lab activity. You will need to send your quiz to your instructor at least 60 minutes before the start of your scheduled lab for proof-reading, printing and copying. Quizzes will be given at the beginning of lab.

**Lab lectures:** You will be expected to give a brief (5-10 minute) lecture at the start of lab introducing the day’s activities. A computer and projector is available as well as a chalk board.

**Laboratory Schedule**

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| **Week** | **Dates** | **Lab** |
| 1 | 1/13 and 1/14 | Introduction: Laboratory Safety and student privacyMicroscope Use  |
| 2 | 1/20 and 1/21 | Cellular Physiology  |
| 3 | 1/27 and 1/28 | Learning and Memory **TAKE HOME LAB NO CLASS** |
| 4 | 2/3 and 2/4 | Neurology |
| 5 | 2/10 and 2/11 | Reflexes and Sensory Systems |
| 6 | 2/17 and 2/18 | Muscle Contraction |
| 7 | 2/24 and 2/25 | Hematology |
| 8 | 3/3 and3/4 | Cardiac Physiology |
| 9 | 3/17 and 3/18 | Blood Pressure |
| 10 | 3/24 and 3/25 | Respiratory Physiology |
| 11 | 3/31 and 4/1 | Exercise Physiology |
| 12 | 4/7 and 4/8 | Excretory Physiology |
| 13 | 4/14 and 4/15 | Immunology |
| 14 | 4/21 and 4/22 | Digestion |