IB 202: Physiology
Credit: 4 hours with lab; 3 hours without (for non-IB majors)
This is a required course for IB majors, but is an optional course for some other majors.

Lecture Information

Instructors:
Dr. Adam G. Dolezal
Office: 349 Morrill Hall
Email: adolezal@illinois.edu
Office Hours: 10-10:50 AM Fridays (before March 8) or by appointment

Dr. Mark E. Hauber
Office: 469 Morrill Hall
Email: mhauber@illinois.edu
Office Hours: 10-10:50 AM Fridays (after March 8) or by appointment

Schedule: 1:00 – 1:50 PM, MWF, 2079 Natural History Building (NHB)

Text: Biological Science, 6th edition, Scott Freeman, 2013, Pearson Benjamin Cummings,
ISBN: 0321976495

Course Web Site: Materials for the course will be posted on the course Moodle site:
https://learn.illinois.edu

Learning Objectives:
1. Describe the general function and interrelationships of the respiratory, circulatory, excretory, digestive, nervous, endocrine, reproductive, and immune systems.
2. Relate the principles of homeostasis to the control of organ systems.
3. Demonstrate basic laboratory technique through designing, conducting, analyzing and interpreting (charts, graphs, tables) physiological experiments.
4. Successfully manage one’s time; read and think critically; follow instructions.
5. Assess and synthesize primary scientific literature on physiological systems.
6. Work responsibly, respectfully, and effectively with other students.

Exams and Grading

Course Grading Philosophy
1) We do not 'curve' individual exams or assignments. Instead, we will assign grade cut off points based on the distribution of student point totals at the end of the semester.

2) We use the standard 90, 80, 70, 60% scores as starting cutoff points for A, B, C, and D grades, respectively. Depending on the distribution of points at the end of the semester we may drop the cut off points slightly (e.g., 88% might become the A cut off) but we will not raise the cut-offs.

3) Historically the grade distribution in this course has been A: 20-25%, B: 45-50%, C: 20%, D/F: 10%
4) Reading assignments for the lectures are provided on the course Moodle site. **Our expectation is that you will read this material before coming to class.** Material from the text will be covered quickly and used as a starting point to explore topics in more detail. **Similarly, all of the laboratory materials will be posted on Moodle. Again, our expectation is that you will read the introductory material in your laboratory manual before coming to the lab each week (see below).**

5) In some lectures, we will ask for student input, participation, or collaboration. Participation is encouraged and critical, as it will help you learn the material and help us gauge understanding. This may involve writing out lists, drawing diagrams, or the use of iClickers. While this will not be for credit, participation will be essential for understanding material.

6) There will be two writing assignments which will involve reading and summarizing an original peer-reviewed research article. Each of these will represent 10% of your grade.

**Exams**

7) The first three exams covering lecture material will be held during the regularly scheduled lecture period; see the lecture schedule for exam dates. Note that these exams may not be held in the lecture room. The final exam will be held during the finals period. Exams can be made up with proper excuse and documentation. If you are ill, you need a doctor's or McKinley letter – a note from the Emergency Dean does not substitute for a doctor’s excuse. You must contact Dr. Dolezal or Dr. Hauber before the exam or as soon as possible after the exam to ensure that your absence is excused and that a makeup exam can be scheduled.

**Point Allocation**

- Exams - 50% (4 – 12.5% each)
- Writing exercises - 20%
- Lab - 30%

**Contesting Grades**

If you feel that your assignment or exam has been graded inappropriately, you are welcome to contest grades via a written statement within one week of receiving the graded assignment. To contest a grade, you must submit a written statement (preferably via email) of what you believe was graded incorrectly and why the grade should be altered. No oral contesting of grades will be considered, nor will we consider any contest of grades submitted after one week.

**Disabilities Statement**

If you require special accommodations, please tell Dr. Dolezal or Dr. Hauber as soon as possible. All accommodations will follow the procedures as stated in Article 1-110 of the Student Code (http://studentcode.illinois.edu/article1_part1_1-110.html).

**Academic Misconduct**

Academic integrity is essential to maintaining a learning environment that promotes excellence. We expect that all students will complete all academic and scholarly assignments with fairness and honesty. We adhere to the academic misconduct guidelines outlined by the Student Code of Conduct and will report any suspected academic misconduct. Please see...
Lab Information
Location: 3002 Natural History Bldg.  
Coordinator: Nick Morphew  
Email: morphew2@illinois.edu  
Office: 3012 NHB  
Phone: 244-7350

Lab Grade
The lab portion of the course will contribute 30% to your overall course grade. The lab assignments will consist of quizzes, proposal write-ups, presentations, and in-class discussions. You will perform a total of five lab exercises over the course of the semester: an introductory lab exercise during the first week lab (you will be quizzed over this material), followed by four three-week extended lab exercises. Each of the four three-week lab exercises will follow the same schedule. In the week 1, you will learn important background information and specific skills that will be needed to perform a guided independent experiment of your own design. A group proposal will be assigned in week 1. Week 2 will begin with a quiz over the background material, and your group will perform the experiment that you designed in week 1. In week 3, you will present the results of your independent experiment as a 15-minute powerpoint presentation to your lab section. Your lab TA will provide detailed information on our expectations for these write-ups and presentations.

Lab Point Allocation (300 pts. total – 30% of total course grade):  
Presentations: 60% of lab grade (4@40 pts. each)  
Quizzes: 20% (5@20 pts. each)  
Experimental Design Write-ups: 10% (4@10 pts. each)

Lab Attendance Policy
Attendance is expected at all scheduled laboratory sessions. Because of limitations on lab space and staffing, missed labs cannot be made up beyond the weeks for which they are scheduled. There will be a penalty applied to the presentation grade for any missed lab (30 pts) or lack of participation (10 pts) during a lab unit. Limited accommodation of students with conflicts may be made in other lab sections – this must be cleared with Nick Morphew at least one week in advance of the anticipated conflict.

Laboratory Safety
Potentially hazardous reagents and materials are employed in modern biology. As is the case with any tool, these are hazardous only when handled improperly. One way to ensure your personal safety is to read the laboratory instructions carefully before coming to class and to adhere to the following general instructions when you are in the lab.

• Wear closed-toe shoes (NOT sandals) at all times in the laboratory.
• Do NOT store, prepare or consume food or beverages, including coffee, in the laboratory.
• Keep drawers and cabinets closed when you are not accessing materials inside.
• Keep bottles, reagents and equipment away from the edges of counters and benches.
• Clean up any spills immediately.
• Learn the locations of safety and first aid equipment and use them when appropriate.
• Wash your hands before leaving the laboratory.
• Clean your lab bench after exercise, including the floor area if necessary. Discard any hazardous or biological materials according to the instructions provided by the Teaching Assistants.
• The lab book, a notebook and writing implements are the only items that should accompany you in your lab space.