**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: MWF at 1pm will be run ask structured office hours. Individual meetings can be made by appointment.

Dr. Lily Arias  
Office: 3010 NHB  
Email: larias@illinois.edu  
Office Hours: TBD

**Lecture TA:** Kasey Brockelsby. Contact for all lecture questions pertaining to content, assignments, and gradebook. Office hours 12-12:50 on Friday or by appointment.

**Lecture Schedule Summary:**  
1. Asynchronous lectures, 3x per week. Uploaded 2pm MWF  
2. In person discussion of review questions, 1pm MWF

Up to date schedule can be found at this link:  
https://docs.google.com/spreadsheets/d/1sB3pYZCQQ8TC8SZKCqq7watwCo2Is07YSSEt6VfeWRw/edit#gid=0

**Text:** Biological Science, 6th or 7th 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.

**Lecture and discussion format**
This course will have both synchronous virtual materials and an in-person component. **Given that COVID-19 restrictions are continually evolving, the design of the format is to minimize disruptions to student learning if the course has to move to a more virtual format.** Also, if individual students need to miss the in-person component due to illness, they will not miss anything critical that can’t be easily made up.

To achieve these goals, the course will operate as follows. Each week, recorded lectures will be posted on the moodle page. Students should watch these **BEFORE** the time dedicated to the topic on the schedule. Before each lecture, there will be a Moodle quiz on the topic. Then, during the in-person meeting times (MWF at 1pm), we will have an open question-asking period where we will also work through review/discussion questions on each topic. Some of these will be more involved than others, and some may be shorter than others. Think of these as a structured place to do group work, ask questions, and discuss the concept questions.

In short, the sequence for each lecture will look like this
1. Watch video lecture/read through notes (before scheduled time)
2. Take online Moodle quiz over the material, due before the schedule time for that topic
3. Attend the in-person discussion of review questions (1pm MWF).
4. The online lecture for the next topic will be posted by 2pm (right after the previous topic) at the latest.

If we have to move to more virtual work, the in-person component will be moved to zoom or suspended.

**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).**

**Exams**
All exams will cover lecture material of a given section of the class. The final exam will be NOT held during the finals period but will occur during the last week of classes. Exams can be made up with proper excuse and documentation. If you are ill, DO NOT ATTEND in person. Contact Dr. Dolezal or Dr. Arias 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.

**Online quizzes**
For most class periods, there will be a post-lecture quiz assignment on Moodle. Lectures will be posted by 1pm on MWF; the quiz for each lecture will be due within 48h by the beginning of the class period scheduled for a topic. These are there to help students remain engaged and up to date. View them as you would clicker questions.

**Writing assignments**
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. Rubric and assignment will be discussed when assigned.

**Point Allocation**
Exams – 300 points - 30% (4 * 7.5% each)
Online quiz assignments – 200 points - 20% (occurring most lecture periods)
Writing exercises – 200 points - 20% (2 total; each worth 10%)
Lab – 300 points - 30%

**In person discussion questions - MWF at 1pm**
To make use of our in person time in a way that remains flexible, many MWFs at 1pm (the schedule course time) will consist of an in person opportunity to discuss the material for the course period and go through the posted Review Questions for that section. This will be a relatively informal session run somewhat like large office hours. Students can watch the lecture material beforehand and then prepare questions for the instructors.

Note, this is a new activity for the course, so depending on attendance and needs, this may shift to only one or two periods per week.

**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. Arias 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 http://studentcode.illinois.edu/article1_part4_1-402.html for additional details. If you have any questions about the above policy or what constitutes academic misconduct in this course, please contact Dr. Dolezal or Dr. Arias.

**Late Assignment Policy**
Assignments must be turned in at the requested date and time to receive full credit. Any assignment submitted up to one day past the requested date and time will be graded with a -20% deduction, and any assignment that is more than one day late will receive no credit. This policy applies to both lecture and lab assignments.

**Lab Information**

<table>
<thead>
<tr>
<th>Location: 3002 Natural History Bldg.</th>
<th>Teaching Assistants:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Coordinator:</strong> Nick Morphew</td>
<td>Edward Hsieh</td>
</tr>
<tr>
<td>Email: <a href="mailto:morphew2@illinois.edu">morphew2@illinois.edu</a></td>
<td>Tristan Barley</td>
</tr>
<tr>
<td>Office: 3012 NHB</td>
<td>Benjamin Chiavini</td>
</tr>
<tr>
<td>Phone: 244-7350</td>
<td>Sreelakshmi Suresh</td>
</tr>
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<td></td>
<td>Caroline Friedmann</td>
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</tbody>
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**Lab Grade**
The lab portion of the course will contribute 30% to your overall course grade. The lab assignments will consist of proposal write-ups, recorded presentations, and in-class discussions. You will perform a total of four 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 (30% of total course grade):**
Presentations: (4@25 pts. each)
Experimental Design Write-ups: (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. Absences should be documented in order to be excused. Please notify your TA as soon as possible if you are going to miss a lab, and **please do not attend lab if you are feeling ill.**

There will be a 20 pt penalty applied to the presentation grade for any absence that was not communicated or documented. A penalty can also be applied for 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.**