

**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: 1-2PM every Friday or by appointment. See Moodle page for Zoom link.

Dr. Lily Arias

Office: 3010 NHB

Email: larias@illinois.edu

Office Hours: TBD

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

**Lecture Schedule:** Asynchronous lectures, 3x per week. Uploaded by 1pm each MWF

Up to date schedule can be found at this link:

<https://docs.google.com/spreadsheets/d/1sB3pYZCQQ8TC8SZKCq7watwCo2lSo7YSSEt6VfeWRw/edit#gid=0>

**Text:** Biological Science, 6<sup>th</sup> or 7<sup>th</sup> 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.

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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 and will be online. 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, 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. 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 after the class period. 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%

### 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.

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**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](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](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**

**Location:** 3002 Natural History Bldg.

**Coordinator:**

Nick Morphew

Email: [morphew2@illinois.edu](mailto:morphew2@illinois.edu)

Office: 3012 NHB

Phone: 244-7350

**Teaching Assistants:**

Sarai Steward

Edward Hsieh

S. Maggie Murphree

**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)

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**Lab Attendance Policy**

Labs will meet synchronously on Zoom. Attendance is expected at all scheduled laboratory sessions. There will be a penalty applied to the presentation grade for any missed lab (10 pts) or lack of participation (5 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.**