Objective
Basic Human Physiology introduces you to the fundamental functional processes that sustain human life. The lecture and lab sessions gradually draw a picture of how our organ systems, working unceasingly in concert throughout each moment of our life, strive to maintain a stable internal environment that allows our cells (and therefore us) to live. The focus shifts from cells to organ systems, from normal function to disease and from the small but important details to the big concepts. Throughout it all, it is our hope that you will gradually begin to understand and appreciate the basic functions that make human life possible.

Staff
Course Directors and Instructors
Rick Mynark, Ph.D.                Mark Ronan, Ph.D.
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004 Jordan Hall                010B Jordan Hall
855-9067                      855-8411

★ Office Hour: immediately following each lecture or by appointment

Lab Director and Course Administrator
David Matlack, D.V.M.
dmatlack@indiana.edu
207 Classroom Office Building
855-4774

Assistant Instructors: Shane Bielko, David Dudek, Timothy Fulton, John Fyolek

Undergraduate Teaching Associates: Conner Greenwell, Joseph Kim, Rachel Schultz
                                      Katelyn Smiley, Jenna Sperry, Rachel Sternberg

Course Components
Lecture: 8:00 - 8:50am  Monday, Tuesday, Thursday, Friday in Jordan Hall 124
Labs: Monday, Tuesday, Wednesday, Thursday  Classroom Office Building 120

Texts
Lecture: Principles of Human Physiology, 6th edition by Stanfield
Labs: P215 Laboratory Guide, Fall 2018

Important Web Pages
P215 web page: www.indiana.edu/~phys215

Lecture outlines and lecture recordings will be available on the P215 web page.
It is strongly suggested that you print out the lecture outlines and bring them with you to lecture.

Online Quizzes and Grades (via View’em) can be found on the P215 Canvas site.
Exams

1. There are four exams given on the following dates: **September 14\(^{th}\), October 12\(^{th}\), November 9\(^{th}\) and December 12\(^{th}\).** The first 3 exams are given from 3:35 - 4:35pm. The last exam is from 8:00 - 9:00am.

2. Exams cover material only from the lecture sessions. The last exam in December is not cumulative. However, basic concepts extend throughout the course.

3. Exams consist of 50 multiple choice questions each worth 2.5 points. Each exam is worth 125 points.

4. Grades will be posted on the Canvas View’em page. Everyone is welcome to review an exam with the instructor. Appeals for correction of perceived errors in grading or interpretation will be considered during the week following the posting of the grades. No other retroactive regrading will be considered.

5. Alternative exams due to conflicts with important, scheduled events related to education (school/job interview, field trip, IU team travel) will be considered. The reason for rescheduling an exam must be documented and MUST be submitted at least two weeks before the exam. Contact Dr. David Matlack. **The final exam is not eligible for makeup and will NOT be given early! Make plans accordingly.**

6. Absence from an exam will be allowed only under exceptional circumstances (for example, a severe illness or death of a family member). If an exam is missed due to such circumstances, contact Dr. David Matlack within 24 hours. **Acceptable and verifiable documentation must be provided.** A decision will then be made regarding offering a make up exam. A grade of "0" will be recorded for an exam missed for an undocumented or unapproved reason.

7. **ALL makeup exams will be given in an ESSAY format and at a time determined by the instructors.**

Lectures

1. Lectures will begin promptly at 8am. **On time attendance is important for doing well in this course.**

2. Lectures may begin with conceptual questions that emphasize material important for exams. It is important that you are able to answer these questions on your own. If you cannot that means you should either ask questions in lecture, in office hours or via email.

3. If a student misses lecture for any reason, they are responsible for obtaining copies of the lecture notes from another student. Questions about the content of those notes are welcome, but realize that nothing can replace the learning process of taking your own notes.

4. To be successful in this class, students will need to fully understand the concepts. In general, attempts to memorize the material will not achieve good results.

Labs

1. There are 14 labs sessions during the semester.

2. All lab activities- lab sessions, quizzes and written assignments - contribute to the overall class grade.

3. Some lab points are based on attendance. Arriving after the lab begins or leaving before the lab ends mean a loss of points. Some of the lab points come from assignments handed in. Assignments need to be handed in on time to receive credit.

4. **ALL lab assignments MUST be your original work for THIS semester’s class.** You may not use ANY previous papers. ALL lab papers MUST be submitted to Turnitin.com before the paper deadline. A similarity index from Turnitin.com >15% total or > 3% from any single source is regarded as possible plagiarism. Such papers will be reviewed and may receive a score of zero regardless of intent.
Weekly Quizzes
1. There are 15 weekly quizzes during the semester. Each quiz is worth 5 points.

2. Questions are viewed online and answers are submitted online through Canvas. The questions can be viewed as many times as desired, and they can be printed for study. However, answers to the questions can be submitted only one time.

3. Questions are multiple choice in the same format used for exams and are based entirely on lecture material. Similar to the review questions in lecture and the sample questions on the website, it is important that YOU be able to answer these questions on your own. Copying answers won’t help you prepare for the exams that are worth many more points.

4. Questions for each week can usually be viewed and answered for a period of seven days - from Friday afternoon to the following Friday. The deadline for answering the questions during non-exam weeks is Friday at 5:00PM. During exam weeks, the deadline will be Friday at 10:00AM. There are absolutely no deadline extensions and no makeups for missed quizzes under any circumstances.

5. Technical problems can be remedied during the seven days each set of questions is available. Problems occurring shortly before the deadline often cannot be remediated before the deadline passes. It’s wise not to wait until the last moment.

6. When submitting quizzes, make sure than no other programs are running and that you have a reliable internet connection. If you cannot access Canvas for technical reasons, make sure you email your answers to Dr. Mynark or Dr. Ronan before that Friday’s deadline.

Points and Grades
1. Final grades will be based upon total points accumulated. Here is the point distribution.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture Exams (4 @ 125 points)</td>
<td>500 points</td>
</tr>
<tr>
<td>Online Weekly Quizzes (15 @ 5 points)</td>
<td>75 points</td>
</tr>
<tr>
<td>Laboratory Work/Quizzes</td>
<td></td>
</tr>
<tr>
<td>Work/Quizzes (11 @ 15 points)</td>
<td>165 points</td>
</tr>
<tr>
<td>Lab #1 &amp; Lab #8 (5 points each)</td>
<td>10 points</td>
</tr>
<tr>
<td>3 Physiology Laboratory Assignments</td>
<td>100 points</td>
</tr>
<tr>
<td>Maximum Total Possible</td>
<td>850 points</td>
</tr>
</tbody>
</table>

2. Lecture Bonus Points
These points can be earned by participating in unannounced quizzes, problems or questions given during lectures throughout the semester. These are opportunities to test your understanding and earn some extra credit in the process.

Lecture attendance is MANDATORY to be eligible for bonus points. To qualify for the points, you MUST be in lecture on the day it is given AND before 8am on the day it is collected. There will be NO EXCEPTIONS to these rules. Bonus points are added to your cumulative course points and have the potential of significantly improving your final grade.

3. No additional papers or projects to raise the final grade will be accepted.
Grade Scale

Grades are assigned on an objective basis of points earned without regard to the identity of the student or the requirements of other departments or programs. Students will be given information regarding their standing in the course after each exam. It is the responsibility of students to see that their course grades are above any minimum requirements mandated by their respective programs.

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Points Earned</th>
<th>Approx % of Total Possible (850)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>850 - 782</td>
<td>100.00 - 92%</td>
</tr>
<tr>
<td>A-</td>
<td>781.5 - 765</td>
<td>91.99 - 90%</td>
</tr>
<tr>
<td>B+</td>
<td>764.5 - 748</td>
<td>89.99 - 88%</td>
</tr>
<tr>
<td>B</td>
<td>747.5 - 697</td>
<td>87.99 - 82%</td>
</tr>
<tr>
<td>B-</td>
<td>696.5 - 680</td>
<td>81.99 - 80%</td>
</tr>
<tr>
<td>C+</td>
<td>679.5 - 663</td>
<td>79.99 - 78%</td>
</tr>
<tr>
<td>C</td>
<td>662.5 - 612</td>
<td>77.99 - 72%</td>
</tr>
<tr>
<td>C-</td>
<td>611.5 - 595</td>
<td>71.99 - 70%</td>
</tr>
<tr>
<td>D+</td>
<td>594.5 - 578</td>
<td>69.99 - 68%</td>
</tr>
<tr>
<td>D</td>
<td>577.5 - 527</td>
<td>67.99 - 62%</td>
</tr>
<tr>
<td>D-</td>
<td>526.5 - 510</td>
<td>61.99 - 60%</td>
</tr>
<tr>
<td>F</td>
<td>509.5 - 0</td>
<td>59.99 - 0%</td>
</tr>
</tbody>
</table>

Incomplete (I)

The grade of "I" (incomplete) indicates that the student's work is satisfactory (of passing quality) at the time the student suspends participation in the course but has not been completed. The grade of "I" will be given only if the student meets all of the following requirements:

1. The student must have completed a substantial part of the course work.
2. The completed work must be of passing quality. Incompletes are not given to students who are failing the course.
3. The student must demonstrate the existence of hardship that renders it unjust to hold the student to the time limits previously fixed for the completion of the work.

When a grade of "I" is given, the instructor's record of the student's class work remains until the student completes the course work. Previously completed work (prior to receiving the "I") is then considered with the final work in assigning the course grade. The grade of "I" does not erase all previous work in the course; rather, it allows the student to complete the course without paying additional credit-hour and laboratory fees. The grade of "I" simply extends the time allowed for completion of the remaining work in the course.

Withdrawal

Sunday, October 21st is the last day to drop a course with an automatic W. After the automatic withdrawal period, a student may withdraw only with the permission of his or her dean until November 29th. This approval is normally given only for urgent reasons related to extended illness or equivalent distress.

Academic Honesty

We adhere to University guidelines in all cases of personal and academic misconduct such as cheating, plagiarism and interference with another student's work. Penalties for misconduct can include a failing grade in the course and suspension or expulsion from Indiana University.
<table>
<thead>
<tr>
<th>Week of</th>
<th>Topics</th>
<th>Text Chapters</th>
</tr>
</thead>
</table>
| August 20 | Introduction  
Foundations of Physiology/Homeostasis  
Negative Feedback  
Cell Membranes, Organelles, Nucleus | 1  
1  
1  
2 |
| August 27 | Nucleic Acids, Protein Synthesis  
Enzymes and Energy | 2  
3 |
| September 3 | Monday: NO CLASS (no labs this week)  
Cell Metabolism  
Membrane Transport  
Membrane Potentials | 3  
4  
7 |
| September 10 | Basic Neurophysiology  
Synapses & Integration  
Central Nervous System | 7  
8  
9 |
|         | Friday, September 14, Exam 1 from 3:35 - 4:35PM |               |
| September 17 | Central Nervous System  
Sensory Physiology | 9  
10 |
| September 24 | Sensory Physiology  
Muscle Physiology | 10  
12 |
| October 1 | Muscle Physiology  
Autonomic Nervous System  
Friday: NO LECTURE (Fall Break) | 12  
11  
 |
| October 8 | Autonomic Nervous System  
Endocrine System | 11  
6 |
|         | Friday, October 12, Exam 2 from 3:35 - 4:35PM |               |
| October 15 | Circulatory System  
Renal Physiology | 13 & 14  
18 |
| October 22 | Circulatory System  
Renal Physiology | 13 & 14  
18 |
| October 29 | Circulatory System  
Renal Physiology  
Respiratory Physiology | 14 & 15  
18  
16 |
| November 5 | Renal Physiology  
Respiratory Physiology | 18 & 19  
16 |
|         | Friday, November 9, Exam 3 from 3:35 - 4:35PM |               |
| November 12 | Respiratory Physiology  
Immune System | 16 & 17  
23 |
| November 19 | Thanksgiving Break |               |
| November 26 | Respiratory Physiology  
Immune System | 16 & 17  
23 |
| December 3 | Immune System  
Digestive Physiology | 23  
20 |
|         | Wednesday, December 12, Exam 4 from 8:00 - 9:00AM |               |