

**COURSE GUIDELINES**  
**PHYB 302: HUMAN PHYSIOLOGY AND PATHOPHYSIOLOGY**  
**SPRING 2016**

**Introduction**

Physiology is the study of biological functions/processes, both chemical and physical, by which an organism sustains life. This course emphasizes human physiology, but animal physiology may be included when appropriate. Pathophysiology is the study of physiological changes associated with a syndrome or disease state. Since most pharmaceutical drugs target pathophysiological conditions, knowledge of how disease states disrupt normal physiology provides the rationale for drug treatment therapies. Topics covered in these courses are fundamental knowledge for the application of pharmaceutical intervention to illness and disease states.

**Course Overview**

The goal of the PHYB courses (301 and 302) is to have P1 students understand the physiology of the human body and the pathophysiologic abnormalities that affect organs and organ systems to cause disease states. In the PHYB 302 course, students will continue their study of normal physiological function and pathophysiology of organ systems. Lectures covering pathophysiological states will usually follow the lectures in which normal physiological function of a respective organ system is discussed. Topics covered in PHYB 302 include normal physiology and pathophysiology of the renal, endocrine, and male/female reproductive systems. There is also a block of general pathology lectures covering topics not associated with a particular organ system. Upon successful completion of the PHYB courses, students will have demonstrated their knowledge of core physiology and pathophysiology principles that are prerequisites for the PDAT courses beginning in Fall of P2 year.

**Course Background**

PHYB 302 is offered in conjunction with the UIC College of Medicine, Department of Physiology and Biophysics, Department of Pathology, and the Division of Endocrinology, Diabetes and Metabolism. The majority of lecturers are associated with the UIC College of Medicine or the UIC College of Pharmacy. Each lecturer has significant research and/or clinical experience in their respective field. They are an excellent source of information and should be your first contact for questions about their respective lecture content. Lecturer email addresses can be accessed on Blackboard.

**Course Meetings and Lecture Schedule**

Mon, Tues, Wed and Thurs      11:30 am – 12:20 pm      Chicago Room B32      Rockford Room E230

Wed only, 10:30 am – 11:20 am, possible double lecture period. Locations are the same as above.

The sequence of lecture topics can be accessed on the course Blackboard page (document entitled "Lecture Sequence"). Students are highly encouraged to review this document with particular attention given to the exam dates. All efforts will be made to follow the published lecture sequence. However, the course coordinators reserve the right to make changes to the course schedule, should revisions be

required for proper course operation. In the rare case a lecture must be cancelled, students will receive a makeup lecture and/or be referred to previously recorded ECHO lectures. Students will be notified of any changes via Blackboard announcements.

### Course Coordinators

\*Jeremy Ebersole, MS

Instructor

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Dr. Donald Waller, PhD

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Dr. Beata Wolska, PhD

Professor

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UIC College of Medicine

Chicago, IL

\*Questions, concerns, or issues regarding this course are to be addressed with Jeremy Ebersole. Email is the preferred and most rapid form of communication.

### Office Hours

Weekly office hours will be held by Jeremy Ebersole. These may be in person or via videoconference. Days and times will be posted to Blackboard at the beginning of each semester.

### Lecture Materials and Blackboard Utilization

PHYB 302 is a paperless/green course. Paper copies of lecture materials will not be supplied. Students are responsible for printing paper copies of the lecture materials, if desired. Blackboard will be used for electronic dissemination of lecture materials (slides, handouts, etc.) and lecture recordings (ECHO 360), as well as course information, announcements and exam scores. Please check for updates regularly. All efforts will be made to post lecture materials (PowerPoint and/or pdf files) approximately 72 hours prior to the lecture.

### Textbooks

Lecturers in the course often reference the Berne & Levy textbook (*Koepfen, Bruce, and Bruce Stanton. Berne & Levy, Physiology, 6th Updated Edition. Philadelphia: Mosby/ Elsevier, 2010. ISBN: 978-0-323-07362-2*). It is a good source of information and recommended reading material for physiology lecture topics. Chapters corresponding to lecture topics are noted on the Lecture Sequence document. This textbook contains limited information on pathophysiological states. Therefore, students are encouraged to seek additional textbooks for supplemental reading. Electronic versions of Berne & Levy, as well as several supplemental resources are available through the UIC library. For easy access, a few links are posted on Blackboard.

**Lecture Attendance and ECHO Recordings**

Students are expected to attend all course lectures. The lectures are scheduled to be recorded and posted to Blackboard via the ECHO 360 system. However, these recordings are not absolutely guaranteed. Students in this course will be responsible for all content discussed during lecture, regardless of any issues that may arise with the recordings (e.g. failure, loss, premature stoppage, etc.).

**Students should recognize that lecture recordings are intended to serve as a reference resource (much like a textbook) and should refrain from use as a primary learning device and/or to supplement lecture attendance.**

**Examinations and Assignments**

Student performance in the PHYB 302 course will be assessed with four non-cumulative exams (Three 50 minute exams and one 2 hour final exam). Students are referred to the Lecture Sequence document for exams dates. Further instructions and information will be posted to Blackboard a few days in advance of each exam. As a general rule, there will be three questions per each 50 minute lecture period. Exam questions will be written by the course lecturers and will primarily be multiple-choice format. However, the course coordinators reserve the right to edit, modify, reject and/or change the format and/or content of exam questions. **There are no additional assignments or extra credit offered in this course. Students are encouraged to study the lecture material frequently, on a daily basis if possible, in order to ensure the highest possible scores are earned on each exam.**

**Examination Policies and Procedures**

Students are responsible for knowledge and adherence to all examination policies and procedures set forth in this document. Policies of the College and University are also in force.

- Students will report to their respective exam rooms as assigned (posted on Blackboard).
- Exams will start and end at the scheduled times. Time extensions will not be allotted for students arriving late.
- No. 2 pencils and UIC ID card are the only items required for the exam. Students must present their official UIC ID card to submit an exam for scoring.
- Electronic devices are NOT allowed on your person. All electronic devices MUST be turned off and stowed away prior to the start of the exam.
- Coats, hats, back packs, and bags are to be stowed along the far walls of the exam rooms. Best practice is to leave any non-essential possessions in a safe location outside of the exam rooms (e.g. your locker).
- A student who accepts a copy of the exam MUST submit the exam and scantron form before leaving the exam room. Failure to submit all parts of the exam booklet and/or scantron form will result in a score of zero for the exam.
- Once submitted, no part of the exam will be returned to students. Exams will not be rescored to account for blank or incorrectly transcribed answers on the scantron form.
- Students are expected to apply their individual knowledge to answer exam questions. Proctors will not assist with exam question interpretation. Cheating will not be tolerated. Any student found cheating or attempting to copy exam material will be subject to disciplinary action as described in the Student Handbook and Honor Code.

- Students with disabilities must submit an official request for accommodations issued by University Disability Services to the course coordinators at least 48 hours prior to any desired date of accommodation. The student is responsible for contacting the course coordinator regarding any approved accommodations.

### **Exam Scoring and Letter Grade Assignment**

Each exam question will be worth one point. Exam scantron forms will be scored by computer and verified by the course coordinators. The course coordinators reserve the right to modify the exam key and may reject or award credit based upon exam question performance. Scores (# of correct answers) will be posted to Blackboard following each exam. This process may require several days. Students will be notified if posting of scores will exceed 3 working days.

Letter grades will normally be assigned at the end of the semester based upon the total points accumulated from the four exams compared to the mean and standard deviation of the cumulative class performance as shown below:

A = Scores 1 standard deviation above the mean.

B = Scores from the mean to 1 standard deviation above the mean.

C = Scores from the mean to 1 standard deviation below the mean.

D = Scores between 1 and 2 standard deviations below the mean.

F = Scores less than 2 standard deviations below the mean.

The class performance and distribution of final cumulative scores may necessitate adjustments to the methods for assigning letter grades. The course coordinators reserve the right to modify letter grade assignments based upon analysis of the final cumulative scores.

### **Post-exam Activities and Allowances**

Except for the final exam, students will be provided with a copy of their scantron form and an opportunity to view the exam questions. The date and time of exam viewing sessions will be scheduled shortly after scantron copies have been returned to students. No electronic devices will be allowed at the viewing sessions and students are prohibited from copying the exam questions. If a student is in violation of these conditions, it may result in forfeiture of their exam score. Prior to attending the exam viewing session, students are expected to identify incorrectly answered questions by comparing their scantron copy to the answer key posted on Blackboard. Explanations of correct and/or incorrect answers to exam questions will not be discussed during the viewing session. Students will be responsible for consulting the lecture content to determine the evidence supporting answers to the questions. Students will be allowed five working days, starting from the day of the respective viewing session for each exam, to initiate any disputes regarding exam questions and/or scores. To receive consideration, all disputes must be submitted to Jeremy Ebersole via email. No consideration will be given to disputes after the allotted five working days.

**Make-up exams**

Students are required to take all planned exams at the scheduled time and date. In the event a student misses an exam, the student must notify Jeremy Ebersole (jebersle@uic.edu) and the Director of Student Affairs on their respective campus at the earliest possible time. In order to receive a make-up exam, acceptable written documentation of a medical or legal excuse must be presented to Jeremy Ebersole and the Office of Student Affairs within 48 hours of returning to normal activities within the College (e.g. attendance of lectures and/or laboratories). Failure to comply with this policy may result in a score of zero for the missed examination or a mark of incomplete (I) in the course. Extenuating circumstances will be considered on a case by case basis. Exceptions that warrant a make-up exam will be determined at the discretion of course coordinators. If a make-up exam is granted, the date and format of exam will be decided by the course coordinators. Make-up exam formats may include oral discussions, short answer and/or essay questions, multiple choice questions, or a combination of all methods. Scoring of performance on the make-up exam will be determined by the course coordinators.

**Expectations of student conduct and behavior**

The University of Illinois at Chicago and Rockford comprises a wide range of health professionals committed to the education of highly qualified new professionals. All health professionals require the highest level of trust and confidence not only from among themselves but also from the general public. Without such confidence and trust, health professions cannot function effectively. Therefore, the expectations regarding the level of conduct and behavior of students must be high. Students enrolled in the University are expected to conduct themselves at all times in accordance with accepted principles of responsible citizenship and with scrupulous regard for the rights of others. In all work, students must adhere to the guidelines regarding academic integrity as described in the most current Student Handbook, the current University Catalog and your signed Honor Code. Academic dishonesty is just cause for strong discipline. Consider all definitions, regulations and penalties described in these three documents to be in force even though not included in these guidelines. It is the responsibility of the student to read and understand these documents and recognize they serve as our guidelines for all academic activities at the University of Illinois.

**Classroom courtesy**

At UIC-COP, we are committed to promoting and sustaining a sound educational environment for all students. We expect our students to behave in a professional and civil fashion toward instructors, staff, and classmates. Sometimes individuals fail to realize that their local behavior may be disruptive to the larger audience. Therefore, when in the classroom, students are expected to focus on the business at hand. Please ensure you do your part to promote a distraction free learning environment.

## Syllabus Agreement

By signing below, I verify I have received and read all parts of the Spring 2016 Course Guidelines document for the PHYB 302 course. I understand the expectations of me as a student, as well as the policies and procedures as described within this Course Guidelines document. I further recognize that the course coordinators reserve their rights as described within the Course Guidelines.

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

UIN: \_\_\_\_\_

Please note: In order to be eligible for the first exam in PHYB 302 course; students are expected to submit a signed paper copy of the Syllabus Agreement to Jeremy Ebersole or the course TA before **Friday, Jan. 16, 2016**. Students with questions about the Syllabus are expected to contact Jeremy Ebersole (jebersle@uic.edu) for clarification prior to signing the agreement.

### FERPA waiver

Please indicate below if you choose to waive your FERPA rights explicitly for the purpose of exam scantron copy distribution to your official College of Pharmacy Student Mailbox.

\_\_\_\_\_ Yes, please distribute my scantron copies to my mailbox.

\_\_\_\_\_ No, I do not want my scantrons distributed to my mailbox. I understand it is my responsibility to pick up my scantron copies in person from Jeremy Ebersole or the course TA within 2 working days of distribution to the class.