Integrated Basic & Applied Pharmacokinetics
Laboratory Simulation (PHM 190P)
Spring 2019 (Rm: PHR 3.106)

Laboratory:

NOTE: THERE ARE NO AFTERNOON LABS.
The labs will be completed in the 390N Lecture Course:
Tues., & Thurs., (second period: 10:15am – 10:50am)

NOTE: The ‘PRE-LAB’ is set to meet on Thurs., mornings at
8:30am. Specific Thurs., sessions will be assigned PRN as needed as
the semester goes on.

Each ‘Clinical Lab Case’ simulation will follow each clinical lecture in
the 390N lecture course. All lab cases will be based directly on
materials presented by the clinical faculty during the lecture prior to
the lab (Note: The clinical lectures will always be posted prior to the
lecture, so reviewing the lecture prior to class time may help you
prepare for the subsequent lab case).

Lab Sections: (For grading purposes only- listed in the catalog as a Monday lab…)

Monday (UN#59215)
Monday (UN#59225)
Monday (UN#59220)
Monday (UN#59230)
Monday (#UN59235)

Course Director: Jim Koeller, M.S.
Pharmacotherapy
210-567-8355 (office)
210-240-3182 (cell – emergencies)
koeller@uthscsa.edu
Office hours – by appointment

Course Support: TA’s –
AAA –

Course Goals: The applied pharmacokinetics laboratory is meant to help you apply the
theory and the application lectures to an actual patient scenario. Thus, this
lab will provide the student an opportunity, in a controlled setting, to
simulate what you may be asked to put into practice by applying the
fundamental pharmacokinetic principles and clinical insights provided in
the integrated pharmacokinetic course, but in a more practical, real-world
case format to deal with drug dosing, etc. For a 4th year student on a medicine rotation or a pharmacist working in a health care system, it would not be unexpected for a member of the healthcare team to direct a drug dosing or drug dosing change question to the pharmacist. In a ‘real’ situation, the pharmacist (or student on rotation) would either know the answer or would indicate they will get back to the team shortly with an ‘answer’. During that time, I would expect them to go to their satellite or work space and gather the appropriate reference books, clinical practice guides, bedside guides, algorithms, cheat sheets, computer (google) and come up with enough information to calculate the dose, etc. As a pharmacist, you will not remember every drug and every recommended dose… Because you have not yet had all of pharmacotherapy, there is a very good chance that some of the drugs in these cases, you will not be familiar with, so you will need to go and find specific drug information needed to be able to make your recommendations. This lab was created to simulate that activity.

Course Texts:  

Web Resources:  
1. The official Canvas® web site for this course can be accessed either through UTDirect or via http://courses.utexas.edu. Either access point is UTEID-protected, and provides you links to the courses in which you are currently enrolled. You are strongly encouraged to visit this site for additional resources associated with this course (your grades, the discussion board, contacting faculty by Email, electronic versions of suggested and required readings and hyperlinks).

NOTE: Be aware that any messages posted to the discussion board are available to all enrolled students and faculty.

2. You may also contact the course coordinator directly via phone or Email for any and ALL issues related to this course.

Jim Koeller, M.S. (210-240-3182) koeller@uthscsa.edu

Pre-Lab:  
The pre-lab time slot is Thurs., morning at 8:30am. The specific sessions for the pre-labs will be assigned PRN once the course begins, so for now they are TBA (to be assigned).

Laboratories:  
The 10 specific Clinical Lab Cases can be found in the ‘Course Timeline’ for 390N.

Clinical Lab Case TA’s: Below is a list of the clinical TA’s who will attend the clinical case labs and be available for questions during each
exercise, and will also be responsible for grading the labs (which are separate from the lecture course).

- Stefan Allen
- Amanda Kitten
- Eric Young
- James Shurko

Note: Three to Four TA’s will be on-site in Austin for each of the labs to monitor student activities and answer questions. They are also there to ensure you upload your answers at the end of the lab. They also will be grading that specific lab.

Note: All TA’s will have office hours for student questions, those needing additional held after the in-class lab, or grade challenges.

ALSO NOTE: There will also be a AAA (Steven Wulfe) available during the ‘in-class activity’ – Clinical Lab Case, to assist the TA’s and to act as a Triage for students needing help.

Each of the 10 lab cases will have 5 questions worth 2 points each for a total of 10 points. All grading will be done off an Instructors Guide to ensure consistent grading between TA’s. TA’s will have 1 week to assign grades to the previous lab. A template spreadsheet in Canvas is used to inform each student why specific points were taken off of their case answers. Any challenge to the grade from a specific lab needs to be addressed within 1 week of the lab grade being posted. You will need to contact the TA who graded your lab (email) with questions related to the grading. If during that 1 week encounter you and the TA cannot agree on the grade given, the TA will bring the issue to the Course Director who will determine the final action to be taken. Once that post week period for challenges has passed, no further challenges on that specific lab will be allowed.

NOTE: All cases will be available on Canvas starting at 10:15am on the date of the assigned case. You and/or your group partners will then have 35 minutes to complete the case and then individually upload the answers in Canvas for grading (Note: You should always double check that your answers were uploaded to Canvas). Grades will be available on Canvas within one week of submitting the case answers.

NOTE: These clinical cases are OPEN BOOK/Computer, just as in a real clinical situation, you will be allowed to utilize any and all reference materials needed to answer the questions.

Examinations: There will no ‘examinations’ in this course.
Grading: Each lab case will be worth 10 points total (with 5 questions worth 2 points each). With 10 clinical cases, the final lab grade will be based off 100 total points. 

NOTE: There will be no Rounding of the final grade. The final numeric grade you get, will be your final grade.

Grades will be assigned to students based upon the percentage of total points earned in class according to the following:

90 - 100% ~ A  
80 – 89.99% ~ B  
70 – 79.99% ~ C  
60 – 69.99% ~ D  
<60% ~ F

Reconsideration Requests:  
As previously described, grades, with comments, will be posted by the grading TA within one week of the lab case date. Reconsideration requests should be submitted (by email) to the designated TA within one week of the posted grade. Any disagreements that cannot be resolved should be submitted to the course director by the end of the week of the reconsideration request (so don’t wait until the last day of the week to challenge the TA). The course director will make all final determinations. After the reconsideration period, all individual lab grades will be final and cannot be changed after that.

Attendance:  
Although attending the lecture course (and thus the second period when the clinical case labs will be completed) is MANDATORY (allowed 2 absences), it is highly suggested that you attend all these lab sessions. The lab dates are clearly noted in the timeline. NOTE: There are NO make-up clinical lab sessions. For those that miss a lab (for ANY reason), that missed lab will receive the lowest lab score you receive for all other labs completed.

Academic dishonesty:  
The “Statement on Scholastic Dishonesty of the College of Pharmacy” reads as follows: “Pharmacy practitioners enjoy a special trust and authority based upon the profession’s commitment to a code of ethical behavior in its management of client affairs. The inculcation of a sense of responsible professional behavior is a critical component of professional education, and high standards of ethical conduct are expected of pharmacy students. Students who violate University rules on scholastic dishonesty are subject to disciplinary penalties, including failure of the course involved and dismissal from the college and/or the University. Since dishonesty harms the individual, fellow students, and the integrity of the University and the College of pharmacy, policies of scholastic dishonesty will be strictly enforced in this class.”
Students with Disabilities: The University of Texas at Austin provides upon request appropriate academic accommodations for qualified students with disabilities. All University rules concerning reasonable accommodations will be followed. Note that because this lab is a ‘Simulation’, the times given to complete the cases is meant to mirror the time you might be given on a ‘rotation’ or on the job to calculate a dose, etc. These have not been created to provide ‘extra’ time to complete. Also, seeing you will be working in ‘groups’, time considerations have already taken this into account.

### Laboratory Schedule

<table>
<thead>
<tr>
<th>Date</th>
<th>Laboratory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan., 31st (Thur.,)</td>
<td>Clinical Lab Case – Creatine Clearance/Dosing in Renal Dysfunction</td>
</tr>
<tr>
<td></td>
<td>TA’s – TBD</td>
</tr>
<tr>
<td>Feb., 14th (Thurs.,)</td>
<td>Clinical Lab Case – IV Loading/Bolus dose</td>
</tr>
<tr>
<td></td>
<td>TA’s - TBD</td>
</tr>
<tr>
<td>Feb., 19th (Tues.,)</td>
<td>Clinical Lab Case – IV Infusions</td>
</tr>
<tr>
<td></td>
<td>TA’s - TBD</td>
</tr>
<tr>
<td>March 7th (Thurs.,)</td>
<td>Clinical Lab Case – Hepatic dysfunction</td>
</tr>
<tr>
<td></td>
<td>TA’s - TBD</td>
</tr>
<tr>
<td>March 28th (Thurs.,)</td>
<td>Clinical Lab Case – Multiple IV dosing (aminoglycoside)</td>
</tr>
<tr>
<td></td>
<td>TA’s - TBD</td>
</tr>
<tr>
<td>April 2nd (Tues.,)</td>
<td>Clinical Lab Case - Multiple IV infusion dosing (vancomycin)</td>
</tr>
<tr>
<td></td>
<td>TA’s - TBD</td>
</tr>
<tr>
<td>April 4th, (Thurs.,)</td>
<td>Clinical Lab Cases – Cardiac agents</td>
</tr>
<tr>
<td></td>
<td>TA’s - TBD</td>
</tr>
<tr>
<td>April 25th (Thurs.,)</td>
<td>Clinical Lab Cases – Phenytoin</td>
</tr>
<tr>
<td></td>
<td>TA’s - TBD</td>
</tr>
<tr>
<td>April 25th (Thurs.,)</td>
<td>Clinical Lab Cases – Phenytoin</td>
</tr>
<tr>
<td></td>
<td>TA’s - TBD</td>
</tr>
<tr>
<td>May 7th (Tues.,)</td>
<td>Clinical Lab Cases – Pharmacodynamics</td>
</tr>
<tr>
<td></td>
<td>TA’s - TBD</td>
</tr>
</tbody>
</table>

**NOTE:** TA’s for each case will be listed on the case document when you open it on Canvas.