# PHM 564 Basic Principles of Medical Pharmacology
## FALL 2015

### 10/23/15 - amr

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**Notice to Students**: Although course syllabi at MSUCOM have a consistent format, vitally important details differ by course. For this reason, you must read the syllabus thoroughly at the onset of each course to know what the course will provide and what is expected of you.
Section 1 – Course Information

Basic Principles of Medical Pharmacology is a 2-credit hour course that provides students with an introduction to general principles of pharmacology and toxicology. Major topics include: general principles, pharmacokinetics, pharmacodynamics, pharmacogenomics, drug-drug interactions, autonomic adrenergic and cholinergic pharmacology, antimicrobial pharmacology, cancer chemotherapy pharmacology, and principles of toxicology.

Course Goals
The overall goal of the course is to familiarize medical students with the fundamental principles of pharmacology and toxicology that form the underlying basis for drug therapy. General topics include pharmacokinetics, pharmacodynamics, dose-response relationships and drug toxicity, as well as the indications, contraindications and mechanism of actions of selected drug classes.

Course Coordinator
Name: Keith J. Lookingland, Ph.D.
Phone: 517-353-8971
Email: lookingl@msu.edu
Address: B432 Life Sciences, East Lansing, MI 48824

Course Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Phone</th>
<th>Email</th>
<th>Site</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peter J. Cobbett, Ph.D.</td>
<td>517-353-5479</td>
<td><a href="mailto:cobbett@msu.edu">cobbett@msu.edu</a></td>
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<td><a href="mailto:thornbur@msu.edu">thornbur@msu.edu</a></td>
<td>EL</td>
</tr>
</tbody>
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Curriculum Assistants

<table>
<thead>
<tr>
<th>EL</th>
<th>DMC</th>
<th>MUC</th>
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<tbody>
<tr>
<td>Angela Ressegueie (LEAD)</td>
<td>Katelyn Johnston</td>
<td>Beata Rodriquez</td>
</tr>
<tr>
<td>517-353-9932</td>
<td>517-884-9628</td>
<td>586-263-6799</td>
</tr>
<tr>
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<td>rodrí<a href="mailto:583@msu.edu">583@msu.edu</a></td>
</tr>
</tbody>
</table>

Lines of Communication
- For administrative aspects of the Course: contact the course coordinator and lead course assistant.
- For content questions relating to a specific lecture topic: contact the faculty presenter for that specific portion of the course or your SEMI on-site instructor.
- For absences/missed exams (see excused absence information below)
Office Hours
Questions concerning the course may be discussed individually by making an appointment with the Course Coordinator Keith Lookingland via phone (517-353-8971) or e-mail (lookingl@msu.edu).

Course Web Site
The URL for the Course web site is http://D2L.msu.edu
The course D2L site has these PERTINENT sections:

- **Announcements** – Course-related communication to the class will be made here. You should check for announcements on a daily basis.
- **Resources** – Contains the course syllabus with information about the instructional teams, textbooks, exam dates, grading system, rules and regulations, etc.
- **Lessons** – Lecture recordings, tutorials (TT), self-study modules (SSM), and other course-related materials.
- **Communicate** – Contains the course-related email system and the Discussion Forums.
- **Discussion Boards** – Lists of “submitted” questions. It is highly recommended that you check the discussion forum prior to sending a question to faculty as it is very likely that you are not the only student with questions – your question and others may already be available for your review – saving you time.

Textbooks and Reference Materials

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<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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**i>Clicker2 Use in Course**

i>Clickers2 will not be used in this course.

Course-based Academic Support

The value you derive from this course (and those that follow it) will depend on many factors, but most importantly the amount of time and effort you put into it. In undergraduate courses, students often concentrate on just getting through the next exam or individual courses. But medical education is different because it is cumulative. Study for understanding, not just short term memorization. This will allow you to understand concepts and carry them forward with you to the next step in your medical education.

You are strongly urged to:

- Consult the course D2L web site frequently to see announcements and to access various study aids (e.g., follow-up to in-lab problem sets, practice exam questions, and answers to frequently asked questions).
- Complete the preparatory work assigned for each laboratory and lecture session; this includes working through the online modules, problem sets or any other advance study activities.
- Attend every lecture, case discussion and laboratory session. Plan to stay to the end of each laboratory session, in order to take full advantage of the opportunities to work collaboratively with your classmates, to interact with faculty, and to participate in the question reviews at the conclusion of lab.
• Actively annotate your Course Pack as you prepare for each class session, as each class session progresses, and also during your follow-up study.
• Complete the follow-up (supplemental) reading and self-study exercises as directed in the Course Pack and on the D2L web site.
• Use the practice exam questions (posted on D2L prior to each exam) to help guide your review and preparation for exams. Do NOT wait until the day before an exam to look at these practice exam questions. Instead, start using them several days prior to each exam to help guide your review and exam preparation.
• Each member of the teaching team has a well-deserved reputation for being approachable and for helping students achieve success. Avail yourself of the opportunities for help provided by the course faculty -- in person, via e-mail, and at scheduled help sessions or call to schedule an appointment time.
• The time immediately before or after a course lecture is often too hectic to provide a good opportunity to get help from course instructors. By contrast, laboratory sessions (especially at the end when some of the students have already departed) or scheduled office appointments provide an excellent time to ask questions of course faculty.
• Keep in mind that you can contact course faculty by e-mail with your questions. Note: Whenever you pose a question by e-mail, include what you THINK the answer is. This makes it much easier for the instructor to either confirm your understanding and/or offer clarification.
• Attend the course Help Sessions, which are scheduled prior to the course exams.
• Face-to-face contact with faculty at lecture sessions -- In addition to the faculty person giving a lecture, one or more of the course faculty regularly sit in on course lecture sessions at each site. This provides you with an opportunity to pose a quick question or to request a personal meeting with your local campus faculty. E-mail is also a good way to set up a personal meeting with a particular faculty member.
• Study groups - Many students find it beneficial to study with one or more partners, and we strongly encourage this activity. Studying together can be efficient (what one student doesn't understand, another one will), stimulating (personal interaction can help keep you focused and alert), and motivating (commitment to a partner supplements self-discipline). We encourage you to study with suitable partners. We caution you, however, to avoid study groups that turn into "gab fests" or where one or two students do all the talking. Remember, you may THINK you understand a concept when you hear someone else explain it, but you'll KNOW you understand the concept only when YOU can explain it to someone else. So, make sure you get to talk in your study group!
• Caution: Scribe note services are not sanctioned by MSUCOM and are not endorsed by the course faculty. Course faculty assume no responsibility whatsoever for errors in the "scribe notes". It is unwise to expect the "scribes" to substitute for your own attendance, note taking and studying of material presented in lectures, case sessions and/or laboratories.
• Additional academic support resources can be accessed at:

  http://com.msu.edu/Students/Academic_Development/index.htm

In summary, the course faculty are here to facilitate your learning. The large number of students in this course (about 300) necessitates a degree of formality. Also, since your schedules are very full, we must adhere rigidly to the lecture, small group and laboratory times assigned to this course. However, within these constraints, the needs of individual students will be accommodated whenever possible. Please feel free to contact the Course Coordinator with any personal issues you may have involving this course.
Courses begin and end dates
PHM 564 begins on 10/27/15 and ends on 12/15/15. See addendum for detailed daily course schedule.

Exams/Assessments
There will be a total of 3 exams given in PHM 564 this year. Your accumulated score on these exams will determine your grade in the course. The examination schedule is as follows:

<table>
<thead>
<tr>
<th>Exam</th>
<th>Projected Points</th>
<th>Material to be Covered</th>
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</thead>
<tbody>
<tr>
<td>Unit Exam 5</td>
<td>30</td>
<td>Lectures/modules/cases 10/27/15 through 11/6/15</td>
</tr>
<tr>
<td>Mon., 11/9/15</td>
<td></td>
<td></td>
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<tr>
<td>Unit Exam 6</td>
<td>27</td>
<td>Lectures/modules/cases 11/10/15 through 11/19/15</td>
</tr>
<tr>
<td>Mon., 11/23/15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unit Exam 7A</td>
<td>27</td>
<td>Lectures/modules/cases 11/30/15 through 12/8/15</td>
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<tr>
<td>Tue., 12/15/15</td>
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Unit Exam Answer Keys
Unofficial unit exam answer keys will be posted on D2L following the written unit lecture exams so that students who completed their “tear off” sheet during the allotted exam time can receive feedback on their scores on their exam day. The course coordinator will review the statistical reports for each question to determine if a re-score is required (e.g. more than one answer is correct). The grades will be set and the OFFICIAL answer key will replace the unofficial key on D2L and student scores will be finalized. There are no student grade inquiries or challenges accepted for any question on the unit lecture exams. Decisions about exam questions are made based upon statistical analysis and consultation with the teaching faculty. These exams will be posted for student viewing during the exam review display session (see Google calendar).

Course Grades
A student’s course grade is determined by the following formula:

\[
\text{final percent score} = \left( \frac{\text{Exam #1} + \text{Exam #2} + \text{Exam #3}}{\text{total points possible}} \right) \times 100
\]

- **P-Pass**—means that credit is granted and that the student achieved a level of performance judged to be satisfactory by the instructor. To obtain a “P” grade for this course, a student must obtain 70% of total points possible.
- **N-No Grade**—means that no credit is granted and that the student did not achieve a level of performance judged to be satisfactory by the instructor. A student who accumulates less than 70% of the total points will receive an “N” grade.

**All remediation exams for Semester 2 courses are scheduled for Wednesday January 7 and Thursday January 8, 2015.**

- **Remediation** - Since all of the courses in the MSUCOM curriculum are required, any student receiving an “N” grade must remediate the course. To remediate the course a student must study for and take a remediation examination covering all the material presented in the course. The remediation exam will be scheduled for early January (see below). A student must obtain 70% of the total points to pass the remediation exam. Please refer to the remediation policy information provided in Section 2 of this syllabus for information on College requirements and eligibility determination.

**Student Evaluation of the Course**

We would like to receive your feedback on how to improve this course.

Informal Feedback: Feel free to approach the Course Coordinator, or any of the other course faculty with your comments and suggestions. Or write out your comments and email them to the Course Coordinator or Faculty.

Formal Evaluation: In addition to the above, we ask every student in the class to complete formal on-line course evaluation upon conclusion of the course. Student course evaluations are strongly encouraged and highly recommended. Student feedback provides Course Coordinators with valuable information regarding their performance, the performance of their colleagues, and the quality of the course. The information gained from these evaluations is used to continuously improve future offerings of this course. Students can access the evaluation system at: [http://kobiljak.msu.edu/Evaluation/UnitI_II.html](http://kobiljak.msu.edu/Evaluation/UnitI_II.html). Your participation in this important process is greatly appreciated.
Section 2 – Policies

Academic Honesty and Professionalism
http://com.msu.edu/Students/Professional_Development/Statement_on_Professionalism.htm

Every student is responsible for their behavior and is expected to adhere to all MSU and MSUCOM policies of academic honesty and professionalism. If there is any instance of academic dishonesty or unprofessionalism discovered by a member of the faculty, administration or staff, it is his or her responsibility to take appropriate action.

Such action may include, but is not limited to: giving a failing grade, referring a student for judicial review, directing the student to the Associate Dean of Student Services, and any other actions outlined in the Medical Students’ Rights and Responsibilities document.


Attendance/Excused Absence
The College understands and supports the need and the right of the faculty to expect student attendance and participation in many curricular components with consequences if the student is not attending. In the spirit of professional behavior, MSUCOM students are expected to attend required class sessions (e.g., lectures, laboratories) and take all examinations during their originally scheduled times. If this is not possible, the student must obtain an excused absence. To obtain an excused absence, you need to make the following contact, as appropriate, prior to the scheduled administration of the examination(s).

✓ Personal Emergencies:
  (e.g., death in family, serious illness (acute), hospitalization, automobile difficulties).
  EL - Dr. Falls, Associate Dean for Student Services (517) 353-8799
  DMC - Dr. Willyerd, Associate Dean (313) 578-9600
  MUC - Dr. Waarala, Assistant Dean (586) 263-6731

✓ Where there is advance notice of absence:
  To obtain an excused absence, you need to make one of the following contacts as appropriate:
  EL - Dr. Falls, Associate Dean for Student Services (517) 353-8799
  DMC - Dr. Willyerd, Associate Dean (313) 578-9600
  MUC - Dr. Waarala, Assistant Dean (586) 263-6731

For advance notice absences, a student must submit his/her excused absence request at least one week in advance of the scheduled mandatory class session(s) or examination(s). Wedding, family celebrations, vacations, conferences, etc. are not considered acceptable excuses. If an examination or other required experience is missed due to medical reasons, an attending physician’s written confirmation will be required in order for the absence to be excused.

Computer-Based Testing
It is the responsibility of each and every student (including students restarting and overload students) to know and be in compliance with the MSUCOM policy regarding computer-based testing. It is possible that adjustments may need to be made to this policy, and students will be notified of those adjustments when
necessary.

In addition, each and every student must possess his or her own electronic device that is compatible with the software program SoftTest, and ensure that it is fully functional and operational at the time of every computerized assessment.

If a student has difficulties with respect to their technology prior to an assessment, he or she can send an email to OsteoMedAP@hc.msu.edu (which is monitored during normal business hours) for a response within 24 hours of viewing or call the lead curriculum assistant for more urgent matters.

Anyone who will be taking only PART of any Unit Exam in Semester 2 (i.e. overload or returning MS1 students) will use paper and Scantron, not CBT.

**i>Clicker Policy**

i>clickers will not be used in this course

**Remediation Policy**

Remediation of an “N” grade will be governed by the MSUCOM Policy for Retention, Promotion and Graduation (relevant content found under Remediation section), [http://www.com.msu.edu/Students/Policies_and_Programs/Remediation_Policy.htm](http://www.com.msu.edu/Students/Policies_and_Programs/Remediation_Policy.htm) and by the remediation section of each course syllabus.

It is the responsibility of each student in the Michigan State University College of Osteopathic Medicine to verify his/her eligibility, with the Office of Student Services, prior to the administration of the remediation examination/experience.

Students deemed eligible for remediation by the registrar will be informed by the Course Coordinators. Information on remediation format, date and time will be provided then.

**Requests for Special Accommodations**

Michigan State University is committed to providing equal opportunity for participation in all programs, services and activities. Requests for accommodations by persons with disabilities may be made by contacting the Resource Center for Persons with Disabilities at 517-884-RCPD or on the web at [http://www.rcpd.msu.edu/](http://www.rcpd.msu.edu/). Once your eligibility for an accommodation has been determined, you may be issued a Verified Individualized Services and Accommodation (VISA) form. Please present the VISA to Cheryl Luick, [luick@msu.edu](mailto:luick@msu.edu) A329 East Fee Hall at the start of the term and/or **two weeks prior to the assessment event** (test, project, labs, etc.). Requests received after this date will be honored whenever possible.

It is the responsibility of the Student with Accommodations to contact the Course Coordinator and the Curriculum Assistant two weeks prior to the beginning of the semester, when the VISA is obtained prior to the start of the semester. When the VISA is obtained after the start of a semester, the student will notify the Course Coordinator and the Curriculum Assistant two weeks prior to the next scheduled evaluation.