

## 1. General Information

1a. Submitted by the College of: MEDICINE

Date Submitted: 5/2/2013

1b. Department/Division: Pharmacology

1c. Contact Person

Name: Michael Kilgore

Email: [M.Kilgore@uky.edu](mailto:M.Kilgore@uky.edu)

Phone: 859.323.1821

Responsible Faculty ID (if different from Contact)

Name:

Email:

Phone:

1d. Requested Effective Date: Semester following approval

1e. Should this course be a UK Core Course? No

## 2. Designation and Description of Proposed Course

2a. Will this course also be offered through Distance Learning?: No

2b. Prefix and Number: PHA 200

2c. Full Title: Pharmacology: Drugs and Human Health

2d. Transcript Title: Pharmacology: Drugs and Human Health

2e. Cross-listing:

2f. Meeting Patterns

LECTURE: 3

2g. Grading System: Letter (A, B, C, etc.)

2h. Number of credit hours: 3

2i. Is this course repeatable for additional credit? No

If Yes: Maximum number of credit hours:

If Yes: Will this course allow multiple registrations during the same semester?

2j. Course Description for Bulletin: This course will give students the needed background to understand how drugs impact human health and guide their appropriate use. Lectures will focus on how drugs function, how they impact our lives, and how new targets for drugs are discovered. This course will provide a history of drug development, design, and drug discovery, and examine the uses and actions of commonly prescribed and over-the-counter drugs. This course will also cover drugs of abuse and those used in sports and performance enhancement. Students will learn about when drugs should be used, conditions under which their use is prudent, and how to obtain accurate information regarding use, benefits and risks of new drugs. This class will give students valuable scientific insights into drug actions and provide a basis for lifelong learning to better protect and inform health care choices.

2k. Prerequisites, if any: One semester of College Biology.

2l. Supplementary Teaching Component:

3. Will this course taught off campus? No

If YES, enter the off campus address:

4. Frequency of Course Offering: Fall,

Will the course be offered every year?: Yes

If No, explain:

5. Are facilities and personnel necessary for the proposed new course available?: Yes

If No, explain:

6. What enrollment (per section per semester) may reasonably be expected?: 50-80

7. Anticipated Student Demand

Will this course serve students primarily within the degree program?: No

Will it be of interest to a significant number of students outside the degree pgm?: Yes

If Yes, explain: [var7InterestExplain]

8. Check the category most applicable to this course: Not Yet Found in Many (or Any) Other Universities ,

If No, explain:

9. Course Relationship to Program(s).

a. Is this course part of a proposed new program?: No

If YES, name the proposed new program:

b. Will this course be a new requirement for ANY program?: No

If YES, list affected programs:

10. Information to be Placed on Syllabus.

a. Is the course 400G or 500?: No

b. The syllabus, including course description, student learning outcomes, and grading policies (and 400G-/500-level grading differentiation if applicable, from **10.a** above) are attached: **Yes**

## Distance Learning Form

Instructor Name:

Instructor Email:

Internet/Web-based: **No**

Interactive Video: **No**

Hybrid: **No**

1. How does this course provide for timely and appropriate interaction between students and faculty and among students? Does the course syllabus conform to University Senate Syllabus Guidelines, specifically the Distance Learning Considerations?

2. How do you ensure that the experience for a DL student is comparable to that of a classroom-based student's experience? Aspects to explore: textbooks, course goals, assessment of student learning outcomes, etc.

3. How is the integrity of student work ensured? Please speak to aspects such as password-protected course portals, proctors for exams at interactive video sites; academic offense policy; etc.

4. Will offering this course via DL result in at least 25% or at least 50% (based on total credit hours required for completion) of a degree program being offered via any form of DL, as defined above?

If yes, which percentage, and which program(s)?

5. How are students taking the course via DL assured of equivalent access to student services, similar to that of a student taking the class in a traditional classroom setting?

6. How do course requirements ensure that students make appropriate use of learning resources?

7. Please explain specifically how access is provided to laboratories, facilities, and equipment appropriate to the course or program.

8. How are students informed of procedures for resolving technical complaints? Does the syllabus list the entities available to offer technical help with the delivery and/or receipt of the course, such as the Information Technology Customer Service Center (<http://www.uky.edu/UKIT/>)?

9. Will the course be delivered via services available through the Distance Learning Program (DLP) and the Academic Technology Group (ATL)? **NO**

If no, explain how student enrolled in DL courses are able to use the technology employed, as well as how students will be provided with assistance in using said technology.

10. Does the syllabus contain all the required components? **NO**

11. I, the instructor of record, have read and understood all of the university-level statements regarding DL.

Instructor Name:

SIGNATURE|WF-BATCH|Batch User|Get the department head person|20120830

SIGNATURE|LDEARING|Lana S Dearing|College approval for ZCOURSE\_NEW PHA 200|20120830

SIGNATURE|JDLIND2|Jim D Lindsay|HCCC approval for ZCOURSE\_NEW PHA 200|20121126

SIGNATURE|JMETT2|Joanie Ett-Mims|Undergrad Council approval for ZCOURSE\_NEW PHA 200|20121219

## Pharmacology 200: Drugs and Human Health

<i>Faculty</i>	<i>Dept.</i>	<i>Office</i>	<i>Phone</i>	<i>Primary contact: Email</i>
<i>Course Director</i> Michael Kilgore	Pharmacology	Medical Sciences MN354	323-1821	<a href="mailto:m.kilgore@uky.edu">m.kilgore@uky.edu</a>
<i>Course Assistant</i> Deborah Turner	Pharmacology	MN306	323-6085	<a href="mailto:dturner@uky.edu">dturner@uky.edu</a>

### **A. COURSE DESCRIPTION**

PHA 200 is a 3-credit course designed to give students the needed background to understand how drugs impact human health. These will be reviewed from a scientific perspective as well as to inform students of their appropriate use in maintaining personal health. Lectures will cover how drugs function, how they impact our lives and how we discover new targets for drug discovery. This course will cover the history of drug development, design and discovery and examine the uses and actions of commonly prescribed and over the counter drugs. We will also cover drugs of abuse and those used in performance enhancement. This course will prepare students with the background needed to understand when drugs should be used, conditions under which their use is prudent and how to obtain accurate information regarding use, benefits and risks of new drugs.

### **B. PREREQUISITES**

One semester of College Biology.

**C. STUDENT LEARNING OUTCOMES:** Students successfully completing this course will be able to:

1. Understand how selected drugs work and how they are used. Students should be able to identify which drugs are most appropriate for specific diseases or conditions covered in class and describe their mechanism of action.
2. Understand the benefits of drug use and the risks of drug abuse. Students should be able to identify the positive uses of selected drugs and identify and describe the potential of their abuse.
3. Conduct literature review on new or unknown drugs to determine their appropriate use. Given a previously unknown drug, students will be able to conduct research to determine the efficacy and the risks associated with assigned drugs.

**D.** The Course Objectives of this class are to promote life-long learning. Successful completion of this class will provide students the tools to be smarter consumers and an active participant in their own health care decisions.

### **E. CLASS ATTENDANCE**

It should be noted that class attendance is expected. Although attendance will not be taken, the lack of a reference textbook will make class participation all the more critical.

#### **F. TEXT AND COURSE MATERIALS**

There will be no text for PHA 200. Lectures and notes for all lectures will be provided during the course on Blackboard (<https://elearning.uky.edu/>). Students are required to check the course Blackboard website on a daily basis for course information, updates, lecture notes and materials.

#### **G. GRADING**

Students will be evaluated on the basis of the four written examinations. Each examination will last approximately one hour and will account for **25%** of the total grade. Collectively, exams will make up 100% of the total grade. Additional questions associated with a limited number of homework assignments might be used as extra credit.

The grading standards are listed below. Students who perform in these ranges will be assured to receive the indicated grades below.

<b>A:</b>	<b>90-100%</b>
<b>B:</b>	<b>80-89%</b>
<b>C:</b>	<b>70-79%</b>
<b>D:</b>	<b>60-69%</b>
<b>E:</b>	<b>below 60%</b>

Depending on the performance of the class as a whole and at the discretion of the course Director, some adjustments (curving) **may** take place on the final cumulative semester grade.

#### **H. OFFICE HOURS**

The course director will be available for consultation and post hours on the first day of class.

#### **I. DAY, DATES, TIMES**

Class will meet Monday, Wednesday, Friday, 9:00-9:50 AM in the \_\_\_\_\_ unless otherwise noted. Exam times during the semester are will be conducted during regularly scheduled class time. Please refer to the **Room** listing for the correct classroom for each lecture and each exam.

**J. ATTENDANCE POLICY:** Attendance is highly recommended but not mandatory. Anything discussed in class is testable material.

**K. ACADEMIC HONESTY AND INTEGRITY:** The University has a policy that neither condones nor allows cheating, plagiarism, falsification or misuse of data. No exception to this policy will be tolerated. The course director reserves the right to assign a zero for the assignment in question at a minimum. Further breaches may lead to referring the student for suspension from the University. It is the responsibility of the student to become familiar with the rules of academic dishonesty as outlined in the Code of Student Rights and Responsibilities (<http://www.uky.edu/Ombud>). Ignorance of these guidelines is not a defensible position against these rules.

Part II of *Student Rights and Responsibilities* (<http://www.uky.edu/StudentAffairs/Code/part2.html>) states that all academic work, written or otherwise, submitted by students to their instructors or other academic supervisors, is expected to be the result of their own thought, research, or self-expression. In cases where students feel unsure about the question of plagiarism involving their own work, they are obliged to consult their instructors on the matter before submission.

When students submit work purporting to be their own, but which in any way borrows ideas, organization, wording or anything else from another source without appropriate acknowledgement of the fact, the students are guilty of plagiarism. Plagiarism includes reproducing someone else's work, whether it is a published article, chapter of a book, a paper from a friend or some file, or something similar to this. Plagiarism also includes the practice of employing or allowing another person to alter or revise the work that a student submits as their own, whoever that other person may be.

Students may discuss assignments among themselves or with an instructor or tutor, but when the actual work is done, the student, and the student alone must do it. When a student's assignment involves research in outside sources of information, the student must carefully acknowledge exactly what, where and how these were employed. If the words of someone else are used, the student must put quotation marks around the passage in question and add an appropriate indication of its origin. Making simple changes while leaving the organization, content and phraseology intact is plagiaristic. However, nothing in these Rules shall apply to those ideas that are so generally and freely circulated as to be a part of the public domain (Section 6.3.1). Programs and resources including, but not limited to, sources such as <http://www.plagiarism.org/> will be employed to insure academic integrity.

**L. ACCOMMODATIONS:** If you have a documented disability that requires academic accommodations, please see the course director as soon as possible during scheduled office hours. In order to receive accommodations in this course, you must provide me with a Letter of Accommodation from the Disability Resource Center (Room 2, Alumni Gym, 257-2754, email address: [jkarnes@email.uky.edu](mailto:jkarnes@email.uky.edu)) for coordination of campus disability services available to students with disabilities.

**M. Inclement weather:** The University of Kentucky has a detailed policy for decisions to close in inclement weather. The snow policy is described in detail at [http://www.uky.edu/PR/News/severe\\_weather.htm](http://www.uky.edu/PR/News/severe_weather.htm) or you can call (859) 257-5684. In general, the University is not closed for severe weather, but the instructor may decide to cancel the class, in which case, this will post be posted on Blackboard at <https://elearning.uky.edu/webapps/portal/frameset.jsp>

**N. EXCUSED ABSENCES FROM EXAMS** – per (Senate Rule 5.2.4.2): Students are expected to attend each class meeting unless s/he has been excused by the instructor. Failure to attend class will result in a lower grade, and may result in failing the class. Missing an exam due to illness or emergencies must be reported within a week. You may call the course director's office or email him at the numbers/address listed on the first page of this syllabus. When there is an excused absence, students will be given the opportunity to make up missed work and/or exams.

**The following are typically accepted reasons for excused absences:**

1. Serious illness.
2. Illness or death of a family member.
3. Approved University-related trips.
4. Major religious holidays.

5. Other circumstances found to be "reasonable cause for nonattendance."5

Students anticipating an absence for a major religious occasion are responsible for notifying the instructor in writing of anticipated absences due to their observance of such occasions no later than the last day for adding a class. Information regarding dates of major religious holidays may be obtained through the religious liaison, Mr. Jake Karnes (257-2754).

**O. INCOMPLETES:** An incomplete grade due to illness or other emergencies may be arranged. A letter must accompany a request for an incomplete due to illness from your doctor, the Student Health Service, or a hospital. Lack of time to complete assigned work, or other reasons not relating to unavoidable excused absences, will not be accepted as a valid reason for petitioning for an incomplete. No incompletes will be given unless you have a prior written agreement with the instructor BEFORE the end of classes.

## Syllabus

Week 1: History of Pharmacology (from willow bark to modern medicine)

Week 2: How drugs work (Drug delivery and metabolism)

Week 3: Pain relief and anti-inflammatory drugs (NSAIDs, opioids)

### Exam #1

Week 4: Drugs of Abuse

Week 5: Drugs of Abuse

Week 6: Infectious Disease (Antibiotics, antifungals, antivirals and antiparasitics)

Week 7: Cardiovascular Disease (Statins and anticoagulants)

### Exam #2

Week 8: ADD/ADHD

Week 9: Gastrointestinal disease and treatment

Week 10: Diabetes

Week 11: Growth Control (Growth Hormone)

### Exam #3

Week 12: Steroids hormones

Week 13: Reproductive function (Contraceptives and hormone replacement)

Week 14: Drugs and Sports (Erythropoietin, steroids and blood doping)

Week 15: The future of drugs and student determined topics

### Exam #4