PHRM 203, GENERAL PHARMACOLOGY
3 CREDITS (CRNs 60110, 60133, 60134)
Online
INSTRUCTOR: ALLISON BEALE
OFFICE: 118 Imiloa
OFFICE HOURS: TBA, see Laulima homepage for course
TELEPHONE: Use email EMAIL: abeale@hawaii.edu
EFFECTIVE DATE: Spring 2019

WINDWARD COMMUNITY COLLEGE MISSION STATEMENT

Windward Community College offers innovative programs in the arts and sciences and opportunities to gain knowledge and understanding of Hawai‘i and its unique heritage. With a special commitment to support the access and educational needs of Native Hawaiians, we provide O‘ahu’s Ko‘olau region and beyond with liberal arts, career and lifelong learning in a supportive and challenging environment — inspiring students to excellence.

CATALOG DESCRIPTION

This course is intended for students in nursing and allied health fields. It covers a wide range of drugs with emphasis on sites and mechanism of action, toxicity, fate and uses of major therapeutic agents.

Prerequisites: Grade of "C" or better in ZOOL 141 and ZOOL 142.
Recommended Preparation: College level chemistry.

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Activities Required at Times Other Than Class Times

1. Self study
2. Assignments
3. Extra credit (not required, but occurring at times other than "class" time)

STUDENT LEARNING OUTCOMES

The student learning outcomes for the course are as follows:

1. Describe the basic mechanisms of drug action.
2. Demonstrate knowledge of the terminology and special concepts useful in the study of pharmacology.
3. Describe how differences between individuals govern their response to drugs.
4. Define how drugs are processed and biotransformed by the body.
5. Identify frequent complications and side effects associated with the major drug
classes.
6. Describe significant interactions between drugs
7. Use information from the pharmacokinetics of a specific drug to determine dosing
   schedules and best route of drug administration.
8. State the therapeutic uses for each major drug group.

Additionally, WCC recognizes four General Education Learning Objectives that can only
fully be achieved by completing a variety of courses. PHRM 203 strives to fulfill outcomes
related to the following General Education Learning Objectives. To learn more about
these objectives, go to the WCC home page and search for General Education Mission
Statement or General Education Student Learning Outcomes.

1. Critical Thinking and Creativity
2. Communication
3. Information Literacy
4. Global and Cultural Awareness

COURSE CONTENT

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<thead>
<tr>
<th>Concepts or Topics</th>
<th>Skills or Competencies</th>
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<tr>
<td>Pharmacokinetics</td>
<td>1. Identify the use of a given drug</td>
</tr>
<tr>
<td>Pharmacodynamics</td>
<td>2. Identify warnings for a given drug</td>
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<tr>
<td>Drug discovery and development</td>
<td>3. Pronounce generic names covered in class</td>
</tr>
<tr>
<td>Regulatory controls</td>
<td>4. Recognize stems and what they mean</td>
</tr>
<tr>
<td>Drug label information</td>
<td>5. Identify the class of a given drug</td>
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<tr>
<td>Drug hazard warnings</td>
<td>6. List &amp; explain variables affecting therapeutics</td>
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<td>Uses and abuses of pharmaceuticals</td>
<td>7. Conduct online searches for drug label information</td>
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<tr>
<td>Medication errors</td>
<td></td>
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<tr>
<td>Patient education</td>
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</table>

COURSE TASKS

INSTRUCTIONAL METHODS FOR THE ONLINE COURSE REQUIRE A HIGH DEGREE
OF SELF-MOTIVATION:

1. Lecture – understand PowerPoint lecture material.
   a. You will have options:
      i. Read the assigned text book chapters (required)
      ii. Listen to the recorded audio OR videos of the lectures (these are optional)
         1. Most students find it most helpful to listen to the recorded Camtasia
            materials, then read or review the text.
   2. Self-study – assigned reading, memorizing drug names (using flash cards or other
      techniques), completing SLO practice sets in the Laulima tool called Assignments,
      Tests and Surveys.

PHRM 203 – CRNs 60110, 60133, 60134 – Spring 2019
An Equal Opportunity/Affirmative Action Institution
3. Quizzes and Examinations – complete quizzes online as well as a midterm and a final exam.
   a. Quizzes are online in Assignments, Tests and Surveys (ATS).
      • You may take these anywhere with a hardwired internet connection (NO WIRELESS DEVICES, this is a course policy).
      • No proctor required, open book, open note (but it is strongly recommended that you TRY to memorize the drug names for the quizzes)
      • 10 matching items, see START HERE announcements in Laulima for details
      • 10 points each
   b. Exams (midterm and final) are online in ATS.
      • Must be taken in a proctored testing center.
      • You must notify the instructor a minimum of three weeks prior to the exam, which testing center you will be using. If you are using a non-UH testing center, it is the student’s responsibility to provide contact information and follow through to ensure that the testing center receives test instructions.
      • Midterm
         o Open for two days and may be taken at any UH testing center
         o 100 multiple-choice questions, each worth 3 points for a total of 300 points
         o NO RETAKES; MAKEUP LIMITED TO VALID MEDICAL EXCUSE COVERING BOTH DAYS
            ▪ An original doctor’s work release note, with signature, must be submitted by mail to the instructor:
               Allison Beale
               Pharmacology and Zoology
               Natural Sciences Department
               Windward Community College
               45-720 Kea’ahala Road
               Kāne‘ohe HI 96744
            o Makeup for valid excuse is NOT the same exam
            o Covers all lectures from the Introduction THROUGH the Neurodegenerative Disease Lectures
      • Final exam
         o COMPREHENSIVE (covers ALL lectures)
         o 250 multiple-choice questions, 2 points each question for a total of 500 points.
         o Open for two days and may be taken at any UH testing center
         o NO RETAKES; MAKEUP LIMITED TO VALID MEDICAL EXCUSE COVERING BOTH DAYS
            ▪ An original doctor’s work release note, with signature, must be submitted by mail to the instructor:
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            o Makeup for valid excuse is NOT the same exam
This course is semi-self-paced through the corresponding University of Hawaii academic semester. It is STRONGLY recommended that you follow the chronological order of topics as listed in the general schedule of lectures found in this syllabus. This will make it easier for you to keep up with the frequent quizzes.

Understand that IT IS NOT EASIER to take PHRM 203 online than it would be to take the course in the traditional classroom setting. In fact, unless you are very organized and self-motivated, you may find it very difficult to continually make the effort not only to memorize all the drug names, but to also learn about the kinetics and dynamics we cover.

If any student emails me a question or a concern, I make a practice of availing all other students of my reply (with identifying information redacted). I generally check my UH Email a few times a day and normally respond within 48 hours at the latest. Most questions will be addressed within 24 hours, except on Sundays and Holidays. All replies are made through the email in Laulima or posted as announcements. Check the announcements often and use your UH Gmail account.

Students are expected to check their email daily during the week and login at least three times/week during the Spring or Fall semesters and at least five times/week during the Summer Sessions. If you don’t respond to emails or login over a prolonged period (one week), then I will assume you intend to drop the course.

What makes a successful online student?
• Writing and computer skills are critical for success,
• You must have reliable and essentially unlimited access to a computer and the internet.
• You must be willing to speak up IMMEDIATELY if problems arise. I most certainly do not have ESP and won’t know if you don’t email me. You cannot let things slide and hope for the best.
• You must be self-motivated and highly disciplined. It is completely on you to keep up and stay on track.
• You MUST plan ahead.

ATTENDANCE

Attendance is required to PHRM 203, whether you are taking it face-to-face or online. It is absolutely essential that you log on to the PHRM 203 Laulima site a minimum of three times per week to read all the lecture and assigned materials. If there are public discussions or chats posted, you must read these as well. Your participation ON A WEEKLY BASIS is not only required, it is an essential aspect of the online course process. All students are expected to do the assigned work and to notify the instructor, by email, when emergencies arise.

ASSESSMENT TASKS AND GRADING

EXAMINATIONS

ALL TIMES, FOR QUIZZES, EXAMS, OR ANY OTHER MATERIAL, INCLUDING DUE DATES, ARE HAWAII STANDARD TIME. MAKE SURE YOU ARE AWARE OF TIME
DIFFERENCES IF YOU ARE NOT IN HAWAII FOR THE TERM! The times posted for opening and closing of exams **MAY NOT** match those of your chosen testing center; you must determine what the hours of operation are for your chosen testing center and allow sufficient time to arrive, be seated and take the exams.

**Quizzes are worth 10 points each.** Total value may be as high as 250 points. For the summer session, quizzes may be grouped per the schedule and may be worth 20 points each since they will cover two lectures. See the ATS tool for the actual number and point value of quizzes. Quizzes are open for one week and you have one opportunity to take the quiz in ATS.

The quizzes **are** an assessment of the student's ability to recall drug names from the previous reading assignment and lecture. Quizzes **are** online. They **are** timed with 10 matching items. Each quiz will **only** be available during the week matching the schedule. **Details will be provided in the START HERE announcements.** There are no make-up or retakes on quizzes. **Quizzes will only be reset if there is a DOCUMENTED issue with Laulima,** if you are using a wireless device, do not (DO NOT) ask for a reset. If you are asking for a reset, you must have documentation from the Laulima technical staff that a Laulima-related failure occurred. To do this, you must contact them using the "REQUEST ASSISTANCE" link at the bottom of all Laulima pages. Copy the instructor on all communications with the Laulima technical staff.

The midterm exam will be 100 multiple-choice questions, each worth three points for a total of **300 points.** The comprehensive final exam will consist of 250 multiple-choice questions and be worth **500 points.** Exams are based predominantly on the Student Learning Objective (SLO) questions you will find in ATS. 75% of exam questions are verbatim from the SLO questions; the remaining 25% consist of a mix of new and rewritten questions. All questions are based on the material covered.

These exams require the student to demonstrate knowledge and understanding of information and concepts presented in lecture, reading assignments, worksheets and other handouts, as well as information presented from internet resources.

**Online participants are required to schedule a time to take the proctored midterm and final at their home campus Learning Resource/Testing Center.** **You must notify the instructor of your testing center choice.** If you are NOT taking the exams at a UH Testing Center, you MUST NOTIFY THE INSTRUCTOR THREE (3) WEEKS PRIOR TO THE EXAM WITH THE TESTING CENTER INFORMATION (INCLUDING EMAIL ADDRESS AND CONTACT NAME). Failure to request an alternative testing center location in a timely manner may result in the test not being available. It is the student’s responsibility to inform the instructor of any changes in testing center details. Copy the following link in your browser to go to the list of **UH testing centers** (http://www.hawaii.edu/dl/testcenters).

In order to take the exam, you will need to bring a photo ID. The exams will be available for two days each, per the schedule, and are timed in Laulima for the same duration as a normal class exam. All exams are CLOSED BOOK and NO NOTES or SMART DEVICES are allowed. **Watch the START HERE announcements for instructions.**
ASSESSMENTS AND ASSIGNMENTS

There is an assignment during the 1st week of class worth a total of 10 points. You are asked to complete an Introduction forum posting. It must be free of extraneous formatting text (you must use the Laulima pasting tools if you copy from a word processing program).

The total for all examinations and activities (quizzes, assignments and exams) will be approximately 1040 points.

There may be approximately ten (10) extra credit (EC) opportunities worth 5-10 points each. There is no “make up” or “late” work accepted for the EC assignments. You will have access to the materials needed to complete the EC through a link at the bottom of the “Course Index” in Laulima or the weekly START HERE announcement. Make sure to check Assignments, Tests and Surveys for due dates as NO LATE WORK IS ACCEPTED. All submissions will be through the Assignments, Tests and Surveys tool in Laulima. Reminders about the EC will appear in the START HERE announcements. Some of the EC are “fussy,” if you can’t figure it out, DON’T DO THAT EC. Do not email the instructor regarding EC, post chats to fellow students if you have questions.

Examples of potential extra credit opportunities:
1. Reading an assigned topic and completing a questionnaire.
2. Listening to an assigned recorded interview and completing a questionnaire.
3. Completing the eCafe survey at the end of the semester.
4. Taking the final exam on the 1st open day of finals.

METHOD OF GRADING

GRADING SCALE

<table>
<thead>
<tr>
<th>Item</th>
<th>Number</th>
<th>Style</th>
<th>Points each</th>
<th>Points total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quizzes</td>
<td>23</td>
<td>Matching</td>
<td>10</td>
<td>230</td>
</tr>
<tr>
<td>Forum response</td>
<td>1</td>
<td>Long answer</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Midterm</td>
<td>1</td>
<td>Multiple choice</td>
<td>300</td>
<td>300</td>
</tr>
<tr>
<td>Final</td>
<td>1</td>
<td>Multiple choice</td>
<td>500</td>
<td>500</td>
</tr>
<tr>
<td>GRAND TOTAL (without EC)</td>
<td></td>
<td></td>
<td></td>
<td>1040</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage (%)</th>
<th>Points out of 1040</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90-100</td>
<td>&gt;912</td>
</tr>
<tr>
<td>B</td>
<td>80-89</td>
<td>832-911</td>
</tr>
<tr>
<td>C</td>
<td>70-79</td>
<td>728-831</td>
</tr>
<tr>
<td>D</td>
<td>60-69</td>
<td>624-727</td>
</tr>
<tr>
<td>F</td>
<td>Less than 59</td>
<td>&lt;623</td>
</tr>
</tbody>
</table>

NOTE: “N” grades are not given for this course. Plus/minus grades are not given for this course. This course may not be audited.

Grades are based on a percentage of the total points (EC is added in separately) so the student may use the above grading scale as a guide to evaluate their performance throughout the class. Laulima does not separate out the extra credit points from the point.
total and so gives you a false sense of your grade. MIDTERM GRADES ARE NOT CALCULATED FOR THE STUDENT. It is your responsibility to keep track of your progress. A points tally sheet is provided (link is accessed from our Laulima start page), but you must edit it to reflect the activities offered during the semester you take the course.

If you miss an examination because of an illness or legitimate emergency, you must contact the instructor within 48 hours to arrange a time to take a make-up exam. The instructor may request that the student present evidence of the illness or emergency that caused the student to miss the exam. If the student misses an exam for any other reason, the student may be prohibited from taking a make-up exam, thus failing to receive any points for the missed exam. While make-up exams will cover the same content area as a missed exam, the exam format and specific questions may be different. No retests will be given for any reason. Quizzes will not be reset and may not be retaken, taken late or made up.

Make up exams will be given at the Library Resource Center or your home campus Testing Center by arrangement. You will need a photo id in order to take the exam. Some testing centers require an appointment, it is up to you to establish the guidelines for the testing center you will be using.

ACADEMIC INTEGRITY

The University of Hawaii does not condone academic dishonesty. Such dishonesty includes cheating and plagiarism, which violate the Student Conduct Code and may result in expulsion from the University. Please refer the most recent WCC course catalog for a description of the University’s policies concerning academic dishonesty. Pharmacology 203 students involved in academic dishonesty, including cheating on exams or plagiarism, will receive an “F” grade for the course.

All cases of academic dishonesty are referred to the Vice Chancellor for Student Affairs.

LEARNING RESOURCES

ONLINE PARTICIPANTS ARE REQUIRED TO HAVE ACCESS TO A COMPUTER AND PRINTER. Additional technical requirements:
1. Ability to access and use Laulima.
   a. There is a specific Laulima website for this course which contains course information, announcements, lecture outlines, assignments, links to other websites, the syllabus and other learning resources.
      i. You MUST have the ability to access and use online resource materials through the course website in Laulima including the lecture materials and recorded resources (videos and audio recordings).
   b. You automatically have access to the PHRM 203 online course website when you enroll.
   c. To access the PHRM 203 Laulima site, go to https://laulima.hawaii.edu/portal and log in using your UH username and password. Once in, click on the PHRM 203 tab.
2. Ability to navigate and use the internet.
3. Ability to navigate and use common word processing and presentation software such as Microsoft Word and PowerPoint.
4. Must have Adobe Reader, QuickTime player and a compatible audio player (such as Flip4Mac if you are using an Apple) installed on your computer.
5. You must have access to a hard internet connection (NOT WIRELESS) while taking the quizzes. Quizzes will NOT be reset if Laulima times you out or your wireless connection drops you.


Required: Most recent edition of a Nurse's Drug Guide. Pearson produces a good one, but any one will suffice.

These texts are available:
1. At the WCC bookstore
2. Online, at Pearson's website a hard cover text or eText
   a. The text book:
   b. The Drug Guide:

A number of supplemental learning resources are available for the student online in Laulima through our webpage.

- Camtasia recordings of each lecture with PDFs of the lecture slides.
- Announcements with details of and links to resources to be used for each lecture.
  - The weekly schedule, assignments and links to the lecture notes, drug lists and SLO questions will all be found in the weekly START HERE announcement. You will also find links to Camtasia recordings (MP4 files) of the lectures in the START HERE announcements. The weekly START HERE Announcement is organized to get you through the material in a logical manner. There may be additional resources in the START HERE announcements and topical information including administrative instructions.
- Drug lists to help memorize drug names, uses and effects.
- Practice questions for exams to help students master the Student Learning Objectives.
- In the HTML page called “Course Index” (see the left-hand navigation menu on the Course homepage in Laulima), you will find handouts and background information. Older recorded lectures are archived here as well.
- Fact sheets for each lecture or topic that groups medications and provides an overview.
- Administrative links to:
  - The syllabus
  - Lab schedule
  - Rubrics
  - WCC services
    - Computer services
    - Counseling and advising
    - Disabilities
    - Library and Ka Piko Student Services
    - Testing center
In addition, we use a number of online resources in our study of pharmaceuticals. You should become familiar, at a minimum, with these listed here (the links will not work in the PDF version of the syllabus, you will need to use your browser to search for these):

1. Drugs.com
   a. [www.drugs.com/pro](http://www.drugs.com/pro)

2. Food and Drug Administration (FDA)
   a. [FDA (www.fda.gov)](http://www.fda.gov)
   b. For Health Professionals
   c. Drug Shortages
   d. MedWatch
   e. Recalls
   f. Medication Errors
   g. More Medication Errors
   h. Continuing education on Medscape

3. Drug Enforcement Administration (DEA)
   a. Controlled Substances Act
   b. Drug disposal days
   c. Drug fact sheets

4. National Institutes of Health (NIH)
   a. Clinical Trials Information (clinicaltrials.gov)

5. Institute for Safe Medication Practices (ISMP)
   a. [Error Prone Abbreviations](http://www.ismp.org/tools/errorproneabbreviations.pdf)
   b. [Drug Name Suffixes](http://www.ismp.org/tools/drugnamesuffixes.pdf)

### MySuccess Student Support System

At Windward Community College we want every student to be successful. **MySuccess** is a system-wide effort that seeks to support students early in the semester, if and when they first begin experiencing difficulty in class. If, within the first few weeks of the semester, your scores, or attendance record, indicate that you're having difficulty in this class (e.g. missing class, missing assignments, or low test scores) you will be referred to an assigned counselor. A referral is a tool to help you get on track. Once referred, MySuccess will:

- Call you and send an email to your Hawaii.edu account to let you know about the referral.
- Have a Counselor follow up with you by phone or by email to find out what kinds of help you might need. They can then connect you with the necessary resources to help you devise a strategy for success.

**If you are referred, know that I am doing so in an effort to connect you with all of the help you may need to do well this semester as your success is important to me.**
Course “Geography” and Procedures, Access and Navigation

To get started with the course, go to Laulima. You will need your student ID and password to log into Laulima. If you don’t know your ID number or have forgotten your password, contact Tech. Services by clicking on the “Student Help” tab on the Laulima log in page. If you are new to the system, this “Student Help” tab also has information, including videos, on using Laulima.

PHRM 203 is divided into 6 “Units” (Introduction, Nervous System, Endocrinology, Cardiovascular, Microbiology & Parasites, and finally “Other”). Each unit covers several chapters in your text and from 2-11 lectures. Endocrinology is the shortest unit, while the Nervous System is the largest. In Laulima, under the “Course Index” navigation tab, you will find links with the names of each of the units. When you click on the link, a page will open and you will find links to the resources described in the previous section. A calendar is available to print in Laulima (See the Administration section at the top of the Course Index home page), but you will need to pay attention to the “Announcements” in Laulima and read all emails to learn of any changes to the schedule, including due dates, assignments, or changes to materials. Read the weekly START HERE Announcement!

The weekly START HERE Announcement will identify, in order, all the tasks you need to complete for the week. The START HERE announcements are posted on the FRIDAY PRECEEDING the relevant week. It will tell you which lectures are being covered as well as any assignments, changes in assignments, due dates and hints for upcoming exams. Read the weekly START HERE Announcement!

On the general course schedule, at the end of the syllabus, you will find the assigned textbook reading. You should keep your Nurse's Drug Guide handy as you study so that you may quickly look up relevant information. You should allot a minimum of 45 minutes per chapter. Some of the end-of-chapter questions from the book are adapted for exam questions. Make sure you take a look at those questions.

After reading, or scanning, the assignment, and listening to the audio of the lecture (while studying the PowerPoints), you should now be ready to answer the SLO review questions. The Camtasias generally are 30-60 minutes. Depending upon how much information you need to review, the SLO questions should take 30-60 minutes per lecture to complete.

Actually learning the material and memorizing the drug names, classes and important details should occupy the rest of your time. Expect to spend a minimum of 2 hours per lecture performing these tasks.

Lastly, take the quiz by going to the “Assignments, Tests and Surveys” link on the PHRM 203 Laulima site. The quizzes are 10 matching “questions” and are timed (5-10 minutes). If you have memorized the drug names, that is plenty of time. The quizzes are only available during the week of the matching lecture per the schedule, so if you choose to do the materials out of order, MAKE SURE YOU DON’T MISS THE RELATED QUIZ. For the purposes of this course, a week starts on Sunday and ends on Saturday at midnight (Hawaii Standard Time). The total points from the quizzes will be at least 2/3 of the midterm, so these easy points should not be thrown away by missing quizzes.
If you find that you have any trouble keeping up with any aspect of the course, make sure you let your instructor know as early as possible. As you will find, building rapport and effective relationships are key to becoming an effective professional. Make sure that you are proactive in informing your instructor when difficulties arise during the semester so that I can help you find a solution. You may contact your instructor through the email link on our Laulima Home Page (just click on my name), or by posting a Chat message.

Additional Information

STUDENT RESPONSIBILITIES

The student is expected to attend lectures, participate in all course activities, and complete all quizzes, examinations and course assignments on time (no late work accepted).

Any changes in the course schedule, such as lecture order, examination dates, deadlines, etc., will be announced ahead of time on the course website (“Announcements” in Laulima). It is the student's responsibility to be informed of these changes. It is also the student's responsibility to be informed about deadlines critical to making registration changes (e.g., last day for making an official withdrawal).

It is the student's responsibility to be aware of all due dates and important administrative dates (e.g., last day to withdraw).

It is the student's responsibility to keep track of their scores. Midterm grades will not be calculated.

It is the student's responsibility to inform the instructor of their selected UH testing center at least two weeks prior to any exam and three weeks if the testing center is outside of the UH system.

HOW TO SUCCEED IN THIS CLASS

Although you will be given lecture outlines, you will not succeed in this class without listening to lecture audio recordings and taking detailed notes. Science courses at WCC generally require a minimum of two to three hours of independent study time for each hour in class. Just because this course is online, you should not expect to devote less than the 8-10 hours per week of study (spring/fall) or up to 20 hours per week (summer) expected of students in a face-to-face section. It is your responsibility to allocate the appropriate amount of time needed for study and be realistic about all personal and professional commitments that may cut into your study time.

Do not make the mistake of assuming that because the materials are online, it will somehow be easy to catch up. IT WON’T BE. Create a schedule for yourself and STICK TO IT.

As part of your studies, you will need to understand a veritable mountain of medical and anatomical terms, most of which will probably be foreign to you (e.g., cholinergic receptors, agonists and antagonists, hyperlipidemia, and post-synaptic potential).
way to learn these vocabulary words is to make flash cards to quiz yourself. Online versions of PHRM 203 drug name flashcards are available for your use, too (see the “Resources” section above). Flash cards are most helpful to learn the drug names, uses, and warnings. You will have handouts listing important abbreviations used in class that you are also expected to learn.

Answering the “SLO Review” questions located at the end of each lecture can be a helpful way to learn new vocabulary and concepts. Be warned: Merely knowing the definitions of vocabulary words or the names of drugs will be of little use if you do not know the pharmacology. This means, that in addition to vocabulary, you will be expected to have a firm understanding of the basic physiological mechanisms regulating drug pharmacokinetics and pharmacodynamics.

**HOW TO FAIL THIS CLASS (As in: how to not do well and therefore get a poor grade).**

1. Purchase the textbook and drug handbook, but don’t bother reading them until just before and exam. Trust me, you won’t retain a thing. To read why, check out this link: [http://msun.edu/grants/eoc/pdf/Principles_of_Memory.pdf](http://msun.edu/grants/eoc/pdf/Principles_of_Memory.pdf)
2. Don’t log in frequently. Funny thing about Laulima, it tracks your participation, so I can see how often you log on….
3. Wait until the last day to participate in any online discussions. It’s too late.
4. Forget about deadlines, thinking that if you miss a quiz, an exam or an assignment (including extra credit) that either the task will go away or I’ll let you make it up. The due dates for the online course will not change once the semester starts. Make sure you are clear on when things are due. [Track due dates in Assignments, Tests, and Surveys (ATS)]. Match these dates to the schedule in the START HERE Announcements.
5. Ignore emails from the instructor advising you to drop the class if you are failing.
6. Don’t get familiar with the syllabus, Laulima and the grade book.
7. Put off the easy things to improve your grade like the quizzes and extra credit. Once those opportunities pass, they are gone. Emergencies can happen at any time and if you aren’t prepared, you won’t have a cushion to keep you afloat. Students who ask for EC opportunities at the end of the semester, or after the final exam, are ALWAYS told, it’s too late. Once these opportunities close online, they are gone. There aren’t any additional things you can do to raise your grade, so don’t miss any quizzes or EC.

**DISABILITIES ACCOMMODATIONS**

If you have a physical, sensory, health, cognitive, or mental health disability that could limit your ability to fully participate in this class, you are encouraged to contact the Disability Specialist Counselor to discuss reasonable accommodations that will help you succeed in this class. Ann Lemke can be reached at 235-7448, lemke@hawaii.edu, or you may stop by Hale ʻĀkoakoa 213 for more information.
TITLE IX

Title IX prohibits discrimination on the basis of sex in education programs and activities that receive federal financial assistance. Specifically, Title IX prohibits sex discrimination; sexual harassment and gender-based harassment, including harassment based on actual or perceived sex, gender, sexual orientation, gender identity, or gender expression; sexual assault; sexual exploitation; domestic violence; dating violence; and stalking. For more information regarding your rights under Title IX, please visit: https://windward.hawaii.edu/Title_IX/

Windward Community College is committed to the pursuit of equal education. If you or someone you know has experienced sex discrimination or gender-based violence, WCC has resources to support you. To speak with someone confidentially, contact the Mental Health & Wellness Office at 808-235-7393 or Kaahu Alo, Designated Confidential Advocate for Students, at 808-235-7354 or kaahualo@hawaii.edu. To make a formal report, contact the Title IX Coordinator, Karla K. Silva-Park, at 808-235-7468 or karlas@hawaii.edu.

ALTERNATE CONTACT INFORMATION

If you are unable to contact the instructor, have questions that your instructor cannot answer, or for any other issues, please contact the Academic Affairs Office:

Location: Alakai 121
Phone: 808-235-7422
Email: wccaa@hawaii.edu
GENERAL LECTURE SCHEDULES (SUBJECT TO CHANGE)

Drug lists are included with each lecture, starting in the 4th week with the PNS lecture.
“Week” indicates actual instructional weeks and does not account for holidays; lecture order may change.

General Schedule for **16 Week** sections (Spring and Fall semesters)

<table>
<thead>
<tr>
<th>Section</th>
<th>Week</th>
<th>Lecture</th>
<th>Chapter in 2nd Ed. of the text, 3rd &amp; 4th Ed in START HERE Announcements...</th>
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</thead>
<tbody>
<tr>
<td>Introduction and Background Basics</td>
<td>1</td>
<td>Introduction</td>
<td>• Chapter 1 (Intro)</td>
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<td>• Chapter 2 (Drug Regulations)</td>
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<td>• Chapter 8 (Substance abuse)</td>
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<td></td>
<td>2</td>
<td>Therapeutics</td>
<td>• UNIT 2 (see video overview)</td>
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<td>• Chapter 6 (ADRs)</td>
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<td>• Chapter 7 (Medication Errors)</td>
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<tr>
<td>Nervous System</td>
<td>3</td>
<td>CNS Basics &amp; Neurotransmitters</td>
<td>• Chapter 16</td>
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<td>• Chapter 21</td>
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<td>4</td>
<td>Peripheral Nervous System</td>
<td>• Chapters 17 &amp; 18 for cholinergics</td>
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<td>• Chapters 19 &amp; 20 for adrenergics</td>
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<td>5</td>
<td>Autocoids</td>
<td>• Chapters 47 &amp; 48</td>
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<td>6</td>
<td>Pain and Inflammation</td>
<td>• Chapter 29 (Severe Pain &amp; Migraines) for Opioids</td>
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<td>• Chapters 44 &amp; 75</td>
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<td>7</td>
<td>Sedatives Hypnotics, Antidepressants, Antipsychotics</td>
<td>• Chapters 22-24.</td>
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<td>Anesthetics</td>
<td>• Chapter 30 (Anesthetics)</td>
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<tr>
<td>Endocrine</td>
<td>8</td>
<td>Neurodegenerative Diseases</td>
<td>• Chapters 25-28</td>
</tr>
<tr>
<td>Cardiovascular</td>
<td>9</td>
<td>Endocrine (Unit 10 in text)</td>
<td>• Chapter 69 (Diabetes mellitus) for 2nd lecture.</td>
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<td>10</td>
<td>CV1: Hypertension</td>
<td>• Chapter 31, 33-37 (scan, read as needed)</td>
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<td></td>
<td></td>
<td>CV2: Angina</td>
<td>• Chapter 38 - 40</td>
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<td>CV3: Lipids</td>
<td>• Chapter 32, 41</td>
</tr>
<tr>
<td>Antimicrobials</td>
<td>11</td>
<td>Micro 1: Bacterial basics, UTIs, BPH, Acne</td>
<td>• Chapters 49, 52 &amp; 53</td>
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<td>Micro 2: Protein Synthesis Inhibitors</td>
<td>• Chapter 51</td>
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<td>Micro 4: Quinolones, Antiprotozoals</td>
<td>• Chapters 54 &amp; 56</td>
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<td>13</td>
<td>Micro 5: Antiparasiticals, Antifungals</td>
<td>• Chapters 55 &amp; 56</td>
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<td>Other</td>
<td>14</td>
<td>Respiratory Tract Drugs</td>
<td>• Chapters 47 &amp; 48</td>
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<td>15</td>
<td>Herbs, Supplements &amp; Vitamins</td>
<td>• Chapters 15 &amp; 64</td>
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<td>MIDTERM</td>
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<td>• Chapter 67, 68 &amp; 70-72 for 1st lecture</td>
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<td>Antivirals</td>
<td>• Chapters 57 &amp; 58</td>
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<td>Gastrointestinal Drugs</td>
<td>• Chapters 61 - 63</td>
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<td>Cancer</td>
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<td>• Chapters 15 &amp; 64</td>
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**SUMMER SCHEDULE:** General Schedule for 10 Week (SUMMER) sections

**COMPREHENSIVE FINAL LAST DAY OF CLASSES**
## SUMMER SCHEDULE: General Schedule for 6 Week (SUMMER) sections

<table>
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|  |  |  | • Chapter 3 (Drug Administration)  
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|  |  | Therapeutics | • UNIT 2 (see video overview)  
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|  |  | Kinetics | • Chapter 4  
|  |  | Dynamics | • Chapter 5  
| Nervous System | 2    | CNS Basics & Neurotransmitters | • Chapter 16  
|  |  |  | • Chapter 21  
|  |  | Peripheral Nervous System | • Chapters 17 & 18 for cholinergic lecture  
|  |  |  | • Chapters 19 & 20 for adrenergic lecture  
|  |  | Autocoids | • Chapters 47 & 48  
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|  |  |  | • Chapters 44 & 75  
|  |  | Sedatives Hypnotics, Antidepressants, Antipsychotics | • Chapters 22-24.  
|  |  | Anesthetics | • Chapter 30 (Anesthetics)  
|  |  | Neurodegenerative Diseases | • Chapters 25-28  
|  |  |  | **MIDTERM**  
| Endocrine | 4    | Endocrine (Unit 10 in text) | • Chapter 67, 68 & 70-72 for 1st lecture  
|  |  |  | • Chapter 69 (Diabetes mellitus) for 2nd lecture.  
| Cardiovascular |  | CV1: Hypertension | • Chapter 31, 33-37 (scan, read as needed)  
|  |  | CV2: Angina | • Chapter 38-40  
|  |  | CV3: Lipids | • Chapter 32, 41.  
| Antimicrobials | 5    | Micro 1: Bacterial basics, UTIs, BPH, Acne | • Chapters 49, 52 & 53  
|  |  | Micro 2: Protein Synthesis Inhibitors | • Chapter 51  
|  |  | Micro 3: Cell wall synthesis inhibitors | • Chapter 50  
|  |  | Micro 4: Quinolones, Antiprotozoals | • Chapters 54 & 56  
|  |  | Micro 5: Antiparasiticals, Antifungals | • Chapters 55 & 56  
| Other | 6    | Respiratory Tract Drugs | • Chapters 47 & 48  
|  |  | Antivirals | • Chapters 57 & 58  
|  |  | Gastrointestinal Drugs | • Chapters 61 - 63  
|  |  | Cancer | • Chapters 59 & 60  
|  |  | Herbs, Supplements & Vitamins | • Chapters 15 & 64  
|  |  |  | **COMPREHENSIVE FINAL LAST DAY OF CLASSES**  

Due dates for extra credit assignments and other assorted schedule information and deadlines pertinent to class will be posted in the weekly START HERE announcements in Laulima. All schedules for this class are subject to change. Make sure to frequently check your UH email, or the Laulima PHRM 203 website, for announcements.

PHRM 203 – CRNs 60110, 60133, 60134 – Spring 2019  An Equal Opportunity/Affirmative Action Institution