

**Wright State University-Miami Valley  
College of Nursing & Health**

**COURSE NUMBER:** NUR 7103-90/91

**COURSE TITLE:** Applied Pharmacology and Therapeutics for Advanced Practice across the Lifespan

**CREDIT HOURS:** 3 semester hours

**CATALOG DESCRIPTION:** Focuses on prescriptive knowledge of pharmacologic agents used in treatment of common primary health care problems, stable chronic disease states and acute care diseases across the lifespan. Emphasis on indications, mechanisms of action, drug interactions, side effects, and client education.

**PREREQUISITES / COREQUISITES:** None

**RESTRICTIONS:** Acceptance to graduate program or permission of instructor

**COURSE LOCATION/CLASS TIMES:** Online at <https://pilot.wright.edu/>

<b>FACULTY:</b>	<b>Office/Email</b>	<b>Phone</b>	<b>Office Hours</b>
Crystal Hammond, MSN, CNM, RN	145 University Hall <a href="mailto:crystal.hammond@wright.edu">crystal.hammond@wright.edu</a>	937/ 775-4889 (Office) 937/ 964-1268 (Home – preferred)	Virtual: Monday 9-11 am (call home phone or email) or by appointment  On Campus: Monday 11:30 am-1:30 pm Wednesday 3:00-4:45 pm

**STUDENT LEARNING OUTCOMES:**

1. Examine pharmacokinetics and pharmacodynamics of selected pharmacologic agents.
2. Examine the major classifications, actions and side effects of selected pharmacologic agents.
3. Evaluate the client's response to pharmacologic agents.
4. Examine the potential for drug interactions
5. Examine indications for the use of schedule II controlled substances in drug therapies
6. Demonstrate the ability to appropriately prescribe pharmacologic agents.
7. Examine legal, ethical and financial implications of prescriptive authority.
8. Summarize research related to pharmacological interventions.
9. Recognize the importance of collaboration with appropriate providers in pharmacological management of patient care.
10. Appraise recent State, National and Organizational guidelines for pain management therapies
11. Examine cultural implications of pharmacological management.
12. Analyze effects of age, gender and ethnic group on pharmacological management.
13. Investigate the risk, recognition and types of assistance for abuse and diversion of schedule II controlled substances.
14. Examine the Ohio drug formulary for use by APN's.

## REQUIRED COURSE MATERIALS:

Katzung, B., Masters, S., & Trevor, A. (2012). *Basic & clinical pharmacology* (12th ed.). Norwalk, CT: Appleton & Lange.

**METHOD OF INSTRUCTION:** This is a self-directed learning course using PowerPoint presentations and recorded lectures (available online through [Uegrity](#) on the course page), readings (from required text and items posted on Pilot page), and development of p-drugs papers. Students must have access to computer facilities, the internet, and a Wright State email account.

**EVALUATION:** See topic outline for due dates.

6 Quizzes	40%	(20 questions each; 6.667%)
Midterm Exam	20%	(60 questions)
1 P-Drugs	5%	
2 Discussions	5%	(2.5% each)
Final Exam (comprehensive)	30%	(120 questions)

### Grading Scale

A = 90.0-100%
B = 80.0-89.99%
C = 70.0-79.99%
D = 60.0-69.99%
F = 0-59.99%

*Failure to complete a quiz, P-drug, discussion or exam will result in a zero, unless otherwise approved by faculty.*

***There is no rounding of grades.***

**ACADEMIC INTEGRITY:** All assignments for this course are to be done as an individual effort. The University Guidelines for Academic Integrity apply to all work for the class. Please refer to your student handbook (college and university, university Code of Conduct) for general policy and procedures regarding student conduct. You are responsible for knowing these policies.

## STUDENT RESPONSIBILITIES:

### COMMUNICATION:

- Students are responsible for checking the PILOT page and Wright State email at least twice weekly for updates and announcements (daily is recommended). All questions about course content should be directed to course faculty; when emailing, please clearly state in the “subject” line that the email refers to a N7103 as faculty teach other courses as well. Please do not contact guest lecturers regarding this course even though they may be WSU CONH faculty in other courses.
- All students are expected to use their WSU email address. Faculty will not use any other email addresses.
- **WSU email is the best way** to communicate with course faculty. In most situations, faculty will respond within 24-48 hours. There may be a longer time period in reply to e-mails during weekends, holidays, or breaks. If you have not received a response in that time frame please resend the email as it might have not been received.
- Open virtual office hours are posted on the first page of the syllabus. You may call me at my home number during those hours unless otherwise posted on the news page on Pilot. In a true emergency, you may call me during other times at home and leave a message. Please do not share my home number. Common courtesy means you should not call after 9 pm. Please respect that the faculty does have other responsibilities to other classes as well. In addition, please be respectful of the faculty’s time outside of the college and adhere to office hours for course content questions.
- All communications on discussion boards, emails, or by phone should be presented in a professional manner.

## **COMPUTER/TECHNICAL DISCLOSURE (IMPORTANT!):**

- **This is an exclusively online course.** All students must have access to Pilot through an internet browser (Firefox is recommended by CATs). There are no special arrangements made for students who are unable to use the technology supported by the WSU Center for Teaching and Learning. If you are unable to access PILOT, you will not be able to take this course. Access is available through most libraries.
- It is the student's responsibility to make sure that they have downloaded Respondus LockDown Browser appropriately and know how to utilize this program so that quizzes/tests may be accessed during the appropriate times.
- Most facilities have firewalls that will prevent you from taking a "locked down" quiz. A "practice quiz" will be available for you to try out on your computer.
- If you are having **ANY** computer/technical difficulties, please contact the HELP desk at 937-775-4827 or 1-888-775-4827 or email the help desk. Your faculty is not an expert in trouble shooting PILOT, Respondus LockDown Browser, or computer programs of any type from a telephone call or email on an urgent basis. The quickest way to resolve technical issues is by using the resources at the HELP desk.
- Please **DO NOT** wait until the last hour prior to a quiz/exam or an assignment due date to find out you are having computer difficulties. Allow yourself ample time to trouble shoot as well as complete the assignment in the time allotted.

## **ACADEMIC EXPECTATIONS:**

- Students are expected to spend 3-4 hours a week for each course credit hour in reading (chapters in the text as well as supplemental material posted in the Pilot Modules) and studying for this course in addition to listening to recorded lectures and taking exams (this is counted in your course credit time).
- Lectures for each week will typically be available on Mondays by **11:00 am** (some prerecorded lectures may be available earlier).
- APA 6<sup>th</sup> edition is to be used for all written assignments.
- All written assignments in this course are expected to reflect the individual student's critical thinking; therefore, students are to submit only work for which they are solely responsible. ALL written assignments will be automatically submitted to turnitin for evaluation of originality. Any student who has submitted work that is highly suspect may be subject to a referral to the Office of Community Standards & Student Conduct and could receive a 0 in the course if academic integrity is an issue.
- Please be aware that a sentence which is minimally changed (only a few words are changed, added, or subtracted) is not paraphrasing – it is plagiarism. Direct quotes require quotation marks and correct citations with page numbers. Paraphrasing also requires citations and should have page numbers. See APA 6<sup>th</sup> edition pp. 15-16 regarding plagiarism and pp. 169-192 regarding quotations, paraphrasing, and citations.
- Papers and assignments, or portions of papers and assignments, done for another nursing course by you or another student will not be accepted for credit in this course; this includes previously submitted assignments for students who are repeating this course. Material downloaded from the Internet must be properly cited, referenced in the reference list, and must come from a reputable web site. Wikipedia is **NOT** a reputable source for your academic work.
  - Papers and assignments are due on the date identified in the appropriate PILOT drop box. The faculty is under no obligation to accept late assignments. Faculty may decide to accept late assignments only if there is a true emergency (with appropriate

documentation) and the student has contacted the faculty prior to the due date and time. If the faculty decides to accept the late assignment, 10% per day will be deducted from the total grade received.

### Quizzes & Exams:

- *Quizzes and Exams will be posted on Pilot for students to take. All exams must be completed in Pilot through Respondus LockDown Browser.*
- Multiple choice and true/false will be based on both lectures & readings. One minute is allowed per question. There are no makeup exams; they must be completed in the allotted time limit and time frame (no answers submitted after the appropriate time limit will be accepted even if the quiz allows you extra time by accident).
- **The quizzes/exams will be on open on weekends Saturday 5 am to Sunday midnight, so plan accordingly. Online Quizzes/Exams are not considered open-book. It is expected that students will not use books, notes, or electronic devices during quizzes/tests.** Each student needs to be familiar with the material in a sufficient manner that will facilitate completion of the exam in the required amount of time just as if they were taking proctored testing. The exam will be set to close when the time limit is up. Questions will be in format consistent with national examinations.
- It is expected that there WILL NOT be any sharing of information or answers between students and that students will not copy (in any manner or format) or print exam questions /answer sets. Any known violations will be viewed as academic dishonesty and could constitute grounds for referral to the office of Community Standards (<http://www.wright.edu/students/judicial/conduct.html>) and possible failure in the course.
- *Quiz/Exam Review: If a student receives a grade of less than 80% on a given quiz/exam, he or she may contact course faculty to review which questions were missed; this must be done within 2 weeks of the quiz/exam. No copying of test questions can be permitted. If a student receives a grade of 80% or higher on an exam, a general review of concepts missed may be provided at the instructor's discretion.*

### Final Exam:

- The comprehensive final exam will be available on Pilot on Monday, April 28, 2014, 9:00 am – 11:00 am. All students must take the exam at this time so please plan accordingly. The Final will only be open during this time.
- There will be 120 questions and you will be allowed 120 minutes to complete the exam.
- *There will be no review of the Final exam.*

### P-Drugs:

- Specific instructions and grading rubric will be posted in the P-drug module on Pilot.
  - Students are to choose a common diagnoses that you might encounter in your area of practice and develop a P-drug. Your diagnoses should have several effective groups of drugs. Do not choose a diagnosis with only one group of drugs (i.e. treatment of lice).
  - Complete your assignment using APA 6<sup>th</sup> edition formatting (including appropriate citations and references).

### Discussions:

- Specific instructions and grading rubric will be posted on Pilot using APA 6<sup>th</sup> edition formatting (including appropriate citations and references).
  - Students will be assigned to a smaller group. Responses to the discussion questions should be posted as directed and students are required to respond to 2 of their peers.

Unit	Topic Area	Required Readings (Optional supplemental readings will be posted on Pilot)	Assignments, Quizzes, & Tests Dates
Week 1 Jan 13	<ul style="list-style-type: none"> <li>Orientation to Course</li> <li>Legal &amp; Ethical of Prescribing</li> </ul>	Katzung, Masters & Trevor Ch. 5 & 65 Edmunds & Mayhew Ch. 1-2 & 10 (on Pilot)	
Week 2 Jan 20	<ul style="list-style-type: none"> <li>Basic Principles of Pharmacology and Therapeutics</li> </ul>	Katzung et. al Ch. 1-4; 66	Quiz 1 (Wks 1&2) Jan 25-26
Week 3 Jan 27	<ul style="list-style-type: none"> <li>Fiscal Implications of Prescribing</li> <li>Special populations: Peds, Pregnancy &amp; Elderly</li> <li>OTC's, dietary supplements/Herbs</li> </ul>	Katzung et. al Ch. 59-60  <ul style="list-style-type: none"> <li>Ch. 63-64</li> </ul>	Discussion 1 Due Feb 26
Week 4 Feb 3	<ul style="list-style-type: none"> <li>Endocrine I: Hypothalamus, Pituitary, Thyroid, Adrenal, Pancreas</li> </ul>	Katzung et. al Ch. 37-39; 41	Quiz 2 (Wks 3 & 4) Feb 8-9 Discussion Responses Due Feb 10
Week 5 Feb 10	<ul style="list-style-type: none"> <li>Endocrine II: Gonadal and Bone Agents</li> <li>Immunizations</li> <li>Local Anesthetics</li> </ul>	Katzung et. al Ch. 40; 42  <ul style="list-style-type: none"> <li>Appendix</li> <li>Ch 26</li> </ul>	
Week 6 Feb 17	<ul style="list-style-type: none"> <li>Nervous System I: Seizure Disorders &amp; Parkinsonism/ other movement disorders</li> <li>Respiratory System</li> </ul>	Katzung et. al Ch. 21, 24, & 28 <ul style="list-style-type: none"> <li>9 (pgs 127-128, 130-131, 137), 16 (pgs 275-279), &amp; 20 (18-20, 47)</li> </ul>	Quiz 3 (Wks 5 & 6) Feb 22-23
Week 7 Feb 24	<ul style="list-style-type: none"> <li>Gastrointestinal System</li> </ul>	Katzung et. al Ch. 62	Midterm (Wks 1-7) March 1-2
Week 8 March 3-9	<b>SPRING BREAK</b>		
Week 9 March 10	<ul style="list-style-type: none"> <li>Anti-Infectives I: Antibiotics</li> </ul>	Katzung et. al Ch. 43-46; 50-51	Discussion 2 Due March 11
Week 10 March 17	<ul style="list-style-type: none"> <li>Anti-Infectives II: AntiTB, Antifungals, Antivirals, Antiprotozoal , &amp; Antihelminths</li> </ul>	Katzung et. al Ch. 47-49, 52-53	Quiz 4 (Wks 9-10) March 22-23 Discussion Responses Due March 24
Week 11 March 24	<ul style="list-style-type: none"> <li>Nervous System II: Psychiatric Pharmacology</li> <li>Muscle relaxants &amp; Anti-inflammatories</li> </ul>	Katzung et. al 22, 29, & 30  Katzung et. al 27 & 36	
Week 12 March 31	<ul style="list-style-type: none"> <li>Pain Management I</li> <li>Abuse/Diversion</li> </ul>	Katzung et. al 31-32	Quiz 5 (Wks 11-12) April 5-6
Week 13 April 7	<ul style="list-style-type: none"> <li>Pain Management II – Schedule II</li> </ul>		P-drug Assignment Due April 13 11:55 pm
Week 14 April 14	<ul style="list-style-type: none"> <li>Cardiovascular Renal</li> </ul>	Katzung et. al Ch. 11-15	Quiz 6 (Wks 13-14)
Week 15 April 21	<ul style="list-style-type: none"> <li>Hematologic System: Anemia, Coagulation disorders, &amp; Dyslipidemia</li> </ul>	Katzung et. al Ch. 33-35	
Finals Week	<b>April 28<sup>th</sup>, 9:00 am – 11:00 am Online</b>		