

 <p>PLNU <i>forward</i></p>	<p style="text-align: right;">School of Nursing NSG2070 - Pharmacology of Nursing 2 semester units</p>
<p>Spring 2020</p>	
<p>Meeting days: Every Friday</p>	<p>Instructor name, rank, credentials: Christine Sloan, PhD, RN, CNS, CPN (Section 1 & 2) Anna Montejano, DNP, RN, PHN, CEN (Section 3)</p>
<p>Meeting times: Section 1 – 1105 to 1300 – LSCC204A Section 2 – 0725 to 0920 – LSCC 202 Section 3 – 0725 to 0920 - LSCC 204B</p>	<p>Cell-Phone: <i>Dr. Sloan</i> (619)518-2255 (Sections 1 and 2) - you can text or email me. No calls/texts after 8:00PM. <i>Dr. Montejano</i> (916)365-5739 (Section 3) for emergencies only. <u>Email is the best for communication</u> Office Phone: Don't bother, we don't answer!!</p>
<p>Meeting location: See above</p>	<p>E-mail: christinesloan@pointloma.edu, amonteja@pointloma.edu</p>
<p>Placement: Sophomore Level Nursing Student</p>	<p>Office location and hours: Liberty Station Room 108 (Sloan), Room 101 (Montejano) By appointment (M-W-F) No office hours on Tues or Thurs due to clinical</p>
<p>Final Exam: (same room as class)</p>	<p>Additional info: Taken concurrently with Nursing 260</p>

PLNU Mission
To Teach ~ To Shape ~ To Send

Point Loma Nazarene University exists to provide higher education in a vital Christian community, where minds are engaged and challenged, character is modeled and formed, and service becomes an expression of faith. Being of Wesleyan heritage, we aspire to be a learning community where grace is foundational, truth is pursued, and holiness is a way of life.

SON Vision Statement

The School of Nursing at Point Loma Nazarene University embraces, as a covenant, the commitment to excellence within a dynamic Christian environment in which each one will engage in the sacred work of nursing. This sacred work involves symbolically removing one's shoes in service of others.

Take off your sandals for the place you are standing is holy ground. Exodus 3:5 NIV

SON Mission Statement

The School of Nursing at Point Loma Nazarene University exists to support the university Wesleyan mission and to provide an interdisciplinary learning program of excellence. Graduates of the SON are distinctly identified by grace, truth and holiness, serving others after the example of Christ, as they are sent to fulfill their calling as professional nurses.

So He got up from the meal, took off His outer clothing, and wrapped a towel around His waist. After that, He poured water into a basin and began to wash His disciple's feet, drying them with a towel that was wrapped around Him. John 13: 4-5 NIV

Now that I, your Lord and Teacher, have washed your feet, you also should wash one another's feet. I have set you an example that you should do as I have done for you.

John 13: 14-15 NIV

Faculty reserves the right to make necessary schedule changes to this syllabus as the semester progresses.

Every attempt will be made to minimize the inconvenience to the student in the event of a change to the syllabus. Students will be notified of changes via eclass announcement section, with accompanying email notification, in a timely manner.

COURSE DESCRIPTION

Comprehensive examination of basic theoretical foundations of drug therapy by exploring the pharmacodynamics of commonly used drugs along with nursing implications and interventions necessary for safe therapy.

Note: A minimum grade of "C" must be achieved in all co-requisite courses in order to progress in the program.

PROGRAM VALUES & COURSE LEARNING OUTCOMES

Upon completion of NSG 270 the student will meet the following outcomes:

School of Nursing Program Values & PLOs	NSG270 - Pharmacology CLO's
<p>I. Inquiring faithfully: The student will demonstrate knowledge, skill and behavior of the evidence-based practice of nursing which integrates growth in reasoning, analysis, decision-making and the application of theory with the goal of advocating for others and/or self. This includes holistic nursing skills in the nursing process.</p> <p>A. Initiate dialogue regarding current practice to improve healthcare BSN Essentials II, III, IV, VI, IX</p> <p>B. Demonstrate use of evidence-based practices as an advocate for self and others BSN Essentials III, IV, VI, IX</p> <p>C. Promotes positive client outcomes using evidence-based data BSN Essentials II, III, IV, VI, IX</p> <p>D. Provide holistic care by considering all of the client needs (e.g. physical, psychosocial, spiritual, environmental) including family in a multicultural community BSN Essentials I, III, IV, VI, VII, VIII, IX</p> <p>E. Engage in self-care practices that facilitates optimal care of clients BSN Essentials I, V, VI, IX</p>	
<ol style="list-style-type: none"> 1. Describes key information that must be considered to ensure safe therapeutic drug administration. 2. Applies core principles of safe-medication administration practice to ensure positive outcomes. 3. Differentiates rationales for medication administration as they relates to specific disease/health states 4. Verbalizes evidence-based methods of monitoring for and intervening with various patient responses related to medication administration. 5. Describes methods for minimizing and treating potential side effects/adverse effects of medications 6. Modifies medication administration practices to accommodate developmental, spiritual and environmental differences among patients 7. Reflects on role of the nurse in safe administration of medications 	
<p>II. Caring Faithfully: The student will embrace a calling to the ministry of compassionate care for all people in response to God's grace, which aims to foster optimal health and bring comfort in suffering and death.</p> <p>A. Demonstrate compassionate care to all people while mirroring Christ's love for all BSN Essentials IV, VI, VII, IX</p> <p>B. Partner with the community to establish a trusting relationship BSN Essentials II, VI, VII, IX</p> <p>C. Demonstrate ethics and values consistent with the practice of professional nursing BSN Essentials V, VI, VII, VIII, IX</p>	
<ol style="list-style-type: none"> 1. Describes principles of advocacy for all patients in relation to medication management 2. Verbalizes the nurse's role regarding medication management within the healthcare system or community 3. Examines the role of the professional nurse in safe, ethical medication administration 	
<p>III. Communicating Faithfully:</p>	

The student will actively engage in the dynamic, interactive process that is intrapersonal and interpersonal with the goal of advocating for others and/or self. This includes effective, culturally appropriate communication which conveys information, thoughts, actions and feelings through the use of verbal and non-verbal skills.

A. Engage in active listening to promote therapeutic relationships

BSN Essentials II, III, IV, VI, VII, IX

B. Demonstrate effective verbal and nonverbal communication skills to provide patient care

BSN Essentials II, III, IV, VI, VII, IX

C. Dialogues with members of the healthcare team, including the patient to facilitate positive patient outcomes

BSN Essentials II, III, IV, VI, VII, IX

D. Advocate for patients/families and self

BSN Essentials V, VI, VII

E. Implements patient care while revering the diversity of patients, families and Communities

BSN Essentials II, III, V, VI, VII, IX

1. Describes inter-professional communication practices among healthcare personnel
2. Uses appropriate terminology in oral and written communication
3. Discusses medications using correct pronunciation
4. Demonstrates documentation of medication administration and outcomes of drug therapy
5. Identifies appropriate abbreviations (JCAHO) used to safely document medication dosages and instructions.
6. Develops developmentally-appropriate teaching information to enhance patient understanding of medication use
7. Uses creative approaches to convey important information regarding medication use to patients.
8. Calculates correct dosages of medication based on individual patient characteristics (weight, age, etc).
9. Verbalizes safety concerns to appropriate medical personnel in a timely manner
10. Uses culturally appropriate communication (e.g. education, discharge planning) with patients and families

IV. FOLLOWING Faithfully: Defined as claiming the challenge from Florence Nightingale that nursing is a “divine imposed duty of ordinary work.” The nursing student will integrate the ordinary work by complying with and adhering to regulatory and professional standards (e.g. ANA Code of Ethics, the California Board of Registered Nursing, Scope of Nursing Practice, SON Handbook). This includes taking responsibility, being accountable for all actions and treating others with respect and dignity.

A. Engage in a professional practice environment that promotes nursing excellence

BSN Essentials I, III, IV, V, VI, VII, VIII, IX

B. Provides patient care within the boundaries designated by regulatory agencies, professional practices and ethical standards of a Christian nurse

BSN Essentials II, VI, VI, VII, VIII, IX

C. Avail self of learning opportunities to initiate the life-long learning process

BSN Essentials III, IV, V, VI, VII, VIII, IX

1. Discusses the role of the professional nurse in medication administration and management in the healthcare setting.
2. Verbalizes awareness of personal and professional ethics related to safe and responsible medication administration.
3. Acknowledges responsibility for personal and professional growth to continuously learn and grow in knowledge of medication management

IV. Leading Faithfully:

The student will incorporate a foundational relationship with Christ and others and embrace a willingness to serve others in the midst of life circumstances (e.g. illness, injustice, poverty). The student will role-model the need for “Sabbath Rest” as a means of personal renewal, and true care of the self, so that service to others is optimally achieved. The student will incorporate the characteristics of a servant leader including; humility, courage, forgiveness, discernment.

- A. Provide graceful service through compassionate response to others’ needs
BSN Essentials II, IV, VI, VII, VIII, IX
- B. Demonstrate the principles of a servant leader as a reflection of Christ’s love
BSN Essentials II, IV, V, VI, VII, VIII, IX
- C. Exhibits patient advocacy that reflects sensitivity to diversity in a holistic manner.
BSN Essentials II, IV, V, VI, VII, VIII, IX

COURSE CREDIT HOUR INFORMATION

In the interest of providing sufficient time to accomplish the stated Course Learning Outcomes, this class meets the PLNU credit hour policy for a 2-unit class delivered over 16 weeks. Specific details about how the class meets the credit hour requirement can be provided upon request.

COURSE CONTENT OUTLINE (TOPIC OUTLINE)

Date (Friday's)	Topic(s) Covered	Test or Quiz?	Assignment
January 17 Week 1	Syllabus Review Core Concepts Pharm Across the Life Span	Syllabus Quiz Practice Quiz #1 Not graded Will do in class together	See Canvas
January 24 Week 2	Autonomic Nervous System Drugs	Quiz #2	See Canvas
January 31 Week 3	Pain, Fever & Inflammation, Musculoskeletal Drugs	Quiz #3	See Canvas
February 7 Week 4	Respiratory & Cold/Allergy	Quiz #4	See Canvas
February 14 Week 5	EXAM ONE		
February 21 Week 6	Seizures Anxiety & Insomnia Degenerative Diseases of CNS	Quiz #5	See Canvas
February 28 Week 7	NO CLASS - Community Liaison Breakfast (OTC Assignment time)		
March 6 Week 8	Hypertension, Diuretics, Lipid- Lowering Medications	Quiz #6	See Canvas OTC Assignment Due
March 9-13	SPRING BREAK!! NO CLASS		
March 20 Week 9	Angina, Shock, MI, Dysrhythmia, Heart Failure	Quiz #7	See Canvas
March 27 Week 10	EXAM TWO		
April 3 Week 11	Anticoagulants & Hematopoietics	Quiz #8	See Canvas
April 9-13 Week 12	EASTER BREAK!! NO CLASS		
April 17 Week 13	Diabetes Mellitus: Oral Hypoglycemics & Insulins	Quiz #9	See Canvas
April 24 Week 14	Gastroenterology Oncology	Quiz #10	See Canvas
May 1 Week 15	Antibiotics, Antiviral, Antiprotozoal, Antifungal	Quiz #11	See Canvas
Date: TBA Week 16	EXAM THREE (FINAL)		

LEARNING STRATEGIES

Learning strategies for this course may include, discussion, lecture, small group activities, individual assignments, case studies, quizzes, self-study including computer-based modules (ATI) and Khan Academy (<https://www.khanacademy.org/test-prep/NCLEX-RN>), tutoring and exams.

ATTENDANCE AND PARTICIPATION

Regular and punctual attendance at all classes is considered essential to basic academic achievement. If the student is absent from more than 10 percent of class meetings, the faculty member has the option of filing a written report which may result in de-enrollment. If the absences exceed 20 percent, the student may be de-enrolled without notice. If the date of de-enrollment is past the last date to withdraw from a class, the student will be assigned a grade of W or WF consistent with university policy in the grading section of the catalog. See [Academic Policies](#) in the Undergraduate Student Catalog.

INCOMPLETE AND LATE ASSIGNMENTS

All assignments are to be submitted as specified by faculty, including assignments posted in Canvas. See [Course Specific policies](#).

ACADEMIC DISHONESTY

Students should demonstrate academic honesty by doing original work and by giving appropriate credit to the ideas of others. As explained in the university catalog, academic dishonesty is the act of presenting information, ideas, and/or concepts as one's own when in reality they are the results of another person's creativity and effort. Violations of university academic honesty include cheating, plagiarism, falsification, aiding the academic dishonesty of others, or malicious misuse of university resources. A faculty member who believes a situation involving academic dishonesty has been detected may assign a failing grade for a) that particular assignment or examination, and/or b) the course following the procedure in the university catalog. Students may appeal also using the procedure in the university catalog. See [Academic Policies](#) for further information.

ACADEMIC ACCOMMODATIONS

While all students are expected to meet the minimum academic standards for completion of this course as established by the instructor, students with disabilities may request academic accommodations. At Point Loma Nazarene University, students must request that academic accommodations by filing documentation with the [Disability Resource Center](#) (DRC), located in the Bond Academic Center. Once the student files documentation, the Disability Resource Center will contact the student's instructors and provide written

recommendations for reasonable and appropriate accommodations to meet the individual needs of the student. See [Academic Policies](#) in the Undergraduate Student Catalog.

FERPA POLICY

In compliance with federal law, neither PLNU student ID or social security number should be used in publicly posted grades or returned sets of assignments without students' written permission. This class will meet the federal requirements by (Note: each faculty member should choose one strategy to use: distributing all grades and papers individually; requesting and filing written student permission; or assigning each student a unique class ID number not identifiable on the alphabetic roster.). Also in compliance with FERPA, you will be the only person given information about your progress in this class unless you have designated others to receive it in the "Information Release" section of the student portal. See [Policy Statements](#) in the Undergraduate Student Catalog.

EXAMINATION POLICY

Examinations/quizzes may be deferred due only to illness or because of other equally valid conditions over which the student has no control. Extenuating circumstances will be determined by the faculty of record.

Successful completion of this class requires taking the **FINAL examination on its scheduled day**. The final examination schedule is posted on the [Class Schedules](#) site. No requests for early examinations or alternative days will be approved.

USE OF TECHNOLOGY

Point Loma Nazarene University encourages the use of technology for *class-related* learning, communication, and collaboration. The use of technology during class will be determined at the discretion of the faculty. See course specific policies!

PROFESSIONAL STANDARDS

Students are required to adhere to professional standards while students at PLNU. The nursing department had developed these standards to provide clarification of expected professional behaviors.

1. Presenting yourself professionally in interactions with all persons
2. Behaving with honesty and ethics
3. Respectful communication techniques
4. Being proactive versus reactive
5. Accepting accountability for one's own actions
6. Being prepared and punctual

Additional guidelines

Social networking sites are a great way to connect with many others. These sites can be used to your disadvantage and all persons are advised to employ professional standards on these sites. A general rule would be if what you have posted does not enhance your professional image then it probably needs to be reviewed.

The use of laptops, cell phones, and other electronic devices is at the discretion of the course instructor. Generally it is considered inappropriate to use any device for alternate uses not related to the class being taught. Cell phones should be kept on vibrate or silent during class time unless arrangements have previously been made.

Speaking negatively, relating stories or presenting a biased viewpoint about any class, instructor or other student that is not supportive of the individual involved and can be perceived as incivility. Disagreements are a part of life- but should be worked through in a private manner. Questioning the integrity of a persons' character is disrespectful. Each person is responsible and accountable for their words and actions.

Plagiarism or cheating in any class as a pre-nursing or nursing major will have consequences within the School of Nursing. Disciplinary action will be at the discretion of the instructor, the guidance of the Dean of the School of Nursing, and SON handbook and may include assignment/class failure and possible dismissal from the program.

SCHOOL OF NURSING – GRADING POLICIES

- **Grading Scale** to be used for all exams and final course grades:
 - 93-100% = A
 - 90 - 92% = A-
 - 87 – 89% = B+
 - 84 – 86% = B
 - 81 – 83% = B-
 - 78 – 80% = C+
 - 75 – 77% = C - Must have minimum of 75% to progress in the program
 - 73 – 74% = C-
 - 71 – 72% = D+
 - 68 – 70% = D
 - Below 68% = F
- The Professor of Record has the authority to determine the schedule and re-scheduling of examinations.
- All assigned course work must be completed to receive a final course grade.
- In order to receive a passing grade in the course, the student must achieve a cumulative average of 75% on tests and quizzes. Grades/points will not be rounded. For example: 80.5% does not round to 81% resulting in a grade of C+ instead of a B-.

A grade of less than a “C” (Below 75%) prohibits the student from continuing in the nursing program until the course is repeated with a satisfactory grade of \geq C.

- A grade of at least a “C” in each nursing theory, prerequisite, and/or co-requisite course is required in order to progress to the next course or level. The nursing theory and related clinical courses must be taken concurrently and the student must receive a passing grade of “Credit” in the clinical course in order to progress to the next course or level.
- Throughout the curriculum (whether pre-nursing or nursing) students may repeat one pre-requisite or nursing course. With the need for a second repeat of any pre-requisite or nursing course the student will be dismissed from the nursing program.

COURSE-SPECIFIC POLICIES:

METHODS OF ASSESSMENT & EVALUATION

Exams:

- 3 Exams
- 10 Quizzes

Assignments:

- OTC Experience/Reflection
- ATI Module Tests

Overall course grade is calculated with the following possible points:

*Testing: 350 points	Quizzes (10 quizzes @ 5 pts each) – done in class using Canvas.	50
	Exams (3 Exams @ 100 pts each)	300
Assignments “Learning Activities”	OTC Experience and Reflection	20
ATI Modules Test only	ATI Pharm Made Easy 4.0 Module Test (11 x 5pts)	55
Extra Credit (added to Non-Testing points)	IDEA Feedback Extra Credit (requires 95% class participation) (<u>not counted</u> in point total – extra credit!)	3
Total Points		425

EXAMS:

Individual exams – will be worth 85% of the student's exam grade. The remaining 15% will be determined by group exam score. Students whose individual score is higher than their combined individual + group score will be given the higher of the two scores.

Group exams – will be worth 15% of the student's exam grade. In the event that a student is not able to participate in the group exam, the student will only receive their individual exam score.

NOTE: Any evidence that student(s) are “sharing” information resulting from information gained by taking the group exam (i.e. academic dishonesty) will result in immediate discontinuation of group exams for ALL students in any or ALL sections with possible reduction in exam scores for all students as well. It will also result in disciplinary measures as necessary up to and including dismissal from the nursing program.

QUIZZES:

Quizzes will be given in *Canvas* during class time using your personal computer in the classroom at LSCC. These quizzes will be 7.5 minutes in length and will consist of 5 questions. Students will be allowed to bring in a single 8.5” by 11” sheet of paper with hand-written (ONLY) notes. The paper must be labeled clearly with the students first and last name in the upper right hand corner. Sheets will be collected and handed back at the next class period. Under no circumstances may students “share” notes.

If a student is absent from class or late to class they will not be able to make up a quiz. Exceptions will only be made by the professor under rare circumstances. Please be proactive in your communication with the professor about missed class periods. This will work to your benefit.

Nursing 2070 Grading Grid

PLNU School of Nursing Grading Scale (points, %'s NOT rounded)	NSG 2070 – TESTING (Includes exams & quizzes) Points Possible = 350			NSG 2070 – OVERALL COURSE (Includes Testing & Non-Testing Points) Points Possible = 425		
93 - 100% = A	326	-	350	395	-	425
90 - 92% = A-	315	-	325	383	-	394
87 - 89% = B+	305	-	314	370	-	382
84 - 86% = B	294	-	304	357	-	369
81 - 83% = B-	284	-	293	344	-	356
78 - 80% = C+	273	-	283	332	-	343
75 - 77% = C	263	-	272	319	-	331
73 - 74% = C-	256	-	262	310	-	318
71 - 72% = D+	249	-	255	302	-	309
68 - 70% = D	238	-	248	289	-	301
Below 68% = F		<	238		<	289

CLASS SPECIFIC POLICIES:

- Students are **required to bring a laptop computer to each class period in which there is a quiz** for the purpose of taking the quiz on-line in Canvas. If a student does not own a laptop, please notify the professor of record no later than the first day of class. **If you forget to bring your computer, you will NOT be allowed to make-up the quiz. There are NO make-ups allowed for missed quizzes unless the student has a University-issued excused absence.** The lowest quiz grade will be dropped from your final grade. Quizzes are never allowed to be taken from home, you must be in the classroom.
- Complete assignments on time. Assignments are due as noted in the syllabus or Canvas. A full 10% will be deducted for each day (0-24 hours) late if not previously discussed with professor. Extra credit assignments will not be accepted late.

- Students are responsible for **reading PLNU email at least every 24 hours**. Nursing faculty reserve the right to utilize electronic means of communication (e-mail and canvas) for class assignments, communication, and notification of grades.
- Communicate regularly about your progress/concerns/anything – notify the professor about problems or issues before things are due – this makes it much easier to grant grace.
- Proactively communicate any absence with the professor directly (via email, phone call or text) so that you honor the classroom and clinical community that we are striving to develop.
- Laptops, cell phones, ipads (technology) are NOT allowed in this class except for taking the on-line quiz or to complete in class activities.
- There will be several times in which a laptop/ipad will be allowed in class for the purpose of in-class activities. The professor will inform you of those days.
- Recording the lecture is up to the discretion of the professor. Students should ask for permission to record before recording a lecture.
- All **backpacks and carrying bags** must be left at the door prior to the start of testing.
- **Calculators** must be basic function only (+, -, X, ÷). **No** scientific calculators, palm pilots or cell phones may be used. Calculators may not be shared unless prior permission has been granted by the professor.
- **Exams:** will be conducted in both individual and group modes. For each exam (including the final), students will be given an individual examination during the first hour of the course. These will be collected and held by the professor for grading. During the second hour, students will be assigned to group teams for examination. In the rare case that a student's individual score is higher than the combined score, the higher score will be recorded. Should it become apparent that exam information is being shared with another class or compromised in anyway - group testing will no longer occur.
- Breaks between the individual exam and the group exam are considered "testing" time and as such phones, computers, etc. should not be used or consulted until after the group exam is complete! **The exam should not be discussed with anyone during this time.**
- At the time of **examination**, your computer (provided), a writing utensil and professor-provided scratch paper will be allowed. No drinks, food, eyeglass cases,

phones, smart watches. No hats, hoodies pulled over head, earphones or anything that obscures your face.

- The student is expected to **attend all classes in NSG 2070**, to be on time and to participate in all learning activities.

Students are **required to bring a laptop computer to each class period in which there is a quiz/test**. If a student does not own a laptop, **please notify the professor of record no later than the first day of class**. **If you do not bring your computer to class, you will not be allowed to make-up the quiz and you will receive a zero. Students who are late to class will not be allowed to take the quiz once testing has begun thus a zero will be assigned.**

HONORLOCK

Honorlock is an online proctoring service. We will be using this service for NSG 2070 for all quizzes and exams. This means all quizzes AND exams are taken on your computer.

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- This program will record your screen during testing.
 - Detect search-engine use.
 - Prevent copy and pasting.
 - Prevent opening another browser.
-

You must bring your computer to class to take the quizzes/exams. You cannot use a tablet or smartphone with Honorlock. You **DO NOT** need to create an account, download software or schedule a proctoring appointment.

You are required to use Google Chrome as your browser for all quizzes/exams.

Honorlock is very simple! All you will need to do is log into Canvas and click on the practice quiz to add the Honorlock Chrome Extension, which is required to take exams.

You will need to use Google Chrome and download the Honorlock Chrome Extension.

When we are ready to take our first (non-graded) quiz on January 17th, Friday, we will all log into Canvas together and go to your Course NSG 2070. We will take Quiz #1 together towards the end of the class period. This will allow us to work out any issue you may be having.

REQUIRED TEXTS & RECOMMENDED STUDY RESOURCES

Adams, M., Holland, N. & Urban, C. (2017). Pharmacology for nurses: A pathophysiologic approach, 5th Edition. Upper Saddle River, New Jersey: Pearson. ISBN: 978-0-13-425516-3.

Haws, J. (2018). 140 Must know meds. San Bernardino, CA

LEADERSHIP REQUIREMENT

Attendance of at least one professional organizational meeting is required on an annual basis for each student. As with NSG 260/261 students, with M-Z last names and those who have not yet attended a SON meeting this year should attend during the spring semester. Use the Leadership Form on the SON Canvas site to document your activity. This will be uploaded into Livetext.

COURSE OUTCOMES & LEARNING:

Student Learning Outcomes for each class period are provided in Canvas along with key terms and pre-class preparation assignments. Students should study these learning outcomes when preparing for exams.

Prototypes

This course uses prototypes (like a model to represent something) to learn specific drug classes. Students are expected to learn each prototype for this course. This requires ongoing and frequent studying of class material. See the list of required prototypes in **Appendix A**. The take home message....

**DO NOT PROCRASTINATE....you cannot learn all of these the night before the exam!
Not possible, trust us.**

Study Plan

Unlike other courses where you might be able to get away with studying very hard the night before an exam, pharmacology requires regular and ongoing study. This is critical to passing the course. Please see **Appendix B** for ways to approach the material during study time. There are also Pharmacology Tutors available in the PLNU Tutorial center.

Pharmacology Made Easy 4.0 (ATI)

- Due by 2359 the night before the class period
- 5 points per module (if time minimum met AND test taken)
- 1 hour minimum in the module
- Must upload specific PME Module Report (.pdf) - must have your name & title of module and time spent in the module.

Pharmacology Made Easy (PME) 4.0 is a set of modules in ATI to help you learn pharmacology content. All SON students have access to PME and are expected to use it during this course. It will be available to you until you take NCLEX. These modules are EXCELLENT resources for you throughout the nursing program. APPENDIX C provides suggest time to spend on each module.

Each week of class, there will be at least one module assigned. Modules often consist of videos and other materials to help you learn the content. See Canvas PME Implementation Guide to see what activities we recommend from the module (there's lots so we are trying to focus your effort on only what you need). Activities are often comprised of NCLEX-type questions to help test your knowledge after reviewing materials. At the end of each module is a test. Even if you are directed only to review one area of a module (e.g. Neuro - Part 2, Anti-anxiety medication) you still need to take the full 25 question test at the end of the module. Statistics show that the more questions a student is exposed to, the more likely they are to pass NCLEX!

Your test score is irrelevant to whether you receive points for the module or not. Your score is based on how much time you spend in the module (including the time to take the test). However, learning the material is the goal and therefore you can take the test as many times as you want to improve your score and your knowledge! All learning in ATI will be documented by uploading a .pdf of your Module Report for the module assigned. See Canvas. **Appendix C** lists recommended time to spend in the module.

Appendix A - PROTOTYPES

(by Exam, Week and Topic)

Exam	Week	Topic	Prototypes
E X A M 1	1	Core Concepts, Pharm Across the Lifespan	None! Get your study habits set this week!!
	2	Autonomic Nervous System Drugs	Phenylephrine (Neo-synephrine) Prazosin (Minipress) Bethanechol (Urecholine) Atropine
	3	Pain, Fever, Inflammation Bone & Joint Disorders	*Acetaminophen (Tylenol) *Ibuprofen (Advil, Motrin) *Prednisone Sumatriptan (Imitrex) *Aspirin *Naloxone (Narcan) *Morphine Celecoxib (Celebrex) Cyclobenzaprine (Flexaril) Dantrolene (Dantrium) Botulinum Toxin (Botox) Vitamin D (Calcitriol) Calcium salts (Calcium) Aledronate (Fosamax) Raloxifene (Evista) Hydroxychloroquine (Plaquenil) Colchicine (Colcrys) Allopurinol (Zyloprim)
	4	Respiratory & Cold/Allergy	Fluticasone + Salmeterol (Advair) Salmeterol (Serevent) *Albuterol (Proventil) Ipratropium inhalation (Atrovent) Methylxanthine (Theophylline) Beclamethasone (Qvar - inhaled, Beconase - nasal) Montelukast (Singulair) *Diphenhydramine (Benadryl) Fexofenadine (Allegra)/Loratidine (Claritin) Dextromethorphan (Robitussin) Guaifenesin (Mucinex) Acetylcysteine (Mucomyst) Cromolyn
EXAM 1		35 Prototypes	

Appendix A – PROTOTYPES (continued)

(by Exam, Week and Topic)

Exam	Week	Topic	Prototypes
E X A M 2	6	Seizures, Anxiety & Insomnia Degenerative Diseases of CNS	Melatonin (CAM's) Valerian & Kava (CAM's) Escitalopram oxylate (Lexapro) *Lorazepam (Ativan) Diazepam (Valium) Flumazenil (Romazicon) *Zolpidem (Ambien) Phenobarbital (Luminal) Phenytoin (Dilantin) Levetiracetam (Keppra) Ethosuximide (Zarontin) Levodopa (L-dopa) Carbidopa + levodopa (Sinemet) Benzotropine mesylate (Cogentin) Donepezil (Aricept)
	7	Hypertension, Diuretics, Lipid-Lowering Medications	*Furosemide (Lasix) Hydrochlorothiazide (HCTZ) Spironolactone (Aldactone) Mannitol *Lisinopril (Zestril) Enalapril (Vasotec) *Losartan (Cozaar) Valsartan (Diovan) Amlodipine (Norvasc) Diltiazem (Cardizem) Clonidine (Catapres) *Metoprolol (Lopressor) Hydralazine (Apresoline) Nitroprusside (Nipride) Atorvastatin (Lipitor) Cholestyramine (Questran) Nicotinic Acid (Niacin) Gemfibrozil (Lopid) Ezetimibe (Zetis)
	8	Angina, Shock, MI, Dysrhythmia's & Heart Failure	*Digoxin Propranolol (Inderal) Amiodarone (Cordarone) Verapamil (Calan) *Nitroglycerine (Nitrostat) Atenolol (Tenormin) Albumin Norepinephrine Dopamine (Dopastat)
		EXAM 2	44 Prototypes

Appendix A – PROTOTYPES (continued)

(by Exam, Week and Topic)

Exam	Week	Topic	Prototypes
E X A M 3	10	Anticoagulants & Hematopoietics	*Heparin – short acting (UF) *Heparin - long acting (Lovenox) *Warfarin (Coumadin) Aspirin Clopidogrel (Plavix) Alteplase Aminocaproic Acid (Amicar) Erythropoietin (Epogen) Filgrastim (Neupogen)
	11	Diabetes	Aspart insulin (Novolog) *Regular Insulin (Humulin R) Insulin Isophane (NPH) Glargine (Lantus) Novolin 70/30 *Metformin (Glucophage) Glyburide (Diabeta)
	12	Gastrointestinal	Ranitidine (Zantac) *Omeprazole (Prilosec) Antacids (no prototype) Psyllium mucilloid (Metamucil) Diphenoxylate + Atropine (Lomotil) Opioids (no prototype) *Ondansetron (Zofran) Sulfasalazine/Mesalamine Methotrexate Remicaide TPN & Lipids – Enteral Feeds
	12	Oncology	Cyclophosphamide (Cytosan) Methotrexate (Mexate) Doxorubicin (Adriamycin) Vincristine (Oncovin)
	14	Antibiotics, Antiviral, Antiprotozoal, Antifungal	Piperacillin + Tazobactam (Zosyn) *Ceftriaxone (Rocephin) Tetracycline Erythromycin Gentamycin Ciprofloxacin *Vancomycin Trimethoprim-Sulfamethoxazole (Bactrim) Amphotericin (Ambisome) Fluconazole (Diflucan) Nystatin Chloroquine Metronidazole (Flagyl) HAART Therapy
		EXAM 3	45 Prototypes

*These drugs are part of the **25 Common Meds** list.

Appendix B

Tips for Studying for Pharmacology Exams

- For each prototype drug know its therapeutic class, pharmacologic class, key nursing implications, administration alerts, key adverse effects and interactions.
Bottom line: What does the nurse need to know prior to administration to ensure patient safety, to monitor for drug effects including knowing when the drug is/is not working?
- In addition to the 5 rights of medication administration, when real nurses (RN's) give medications, these are the questions/thoughts that go through their heads:
 - a. Why am I giving this medication to THIS patient?
 - b. What allergies or medication issues does my patient have?
 - c. What is the intended purpose of the medication?
 - d. How is it supposed to be administered? Is this possible for my patient?Examples of common issues:
 - It's oral, but my patient can't swallow pills. Can it be crushed?
 - It's oral, but my patient is NPO. Can they still take it?
 - It's oral, but my patient is vomiting.
 - It's IV but my patient doesn't have an IV (or the IV is infiltrated). Can it be given orally (antibiotics are a good example).
 - How fast does it need to be administered? (IV push vs. over 3 hours, etc)
 - e. Is there a reason my patient should NOT receive this medication?
 - f. Is the dose safe? How do I know that? Who can I ask?
 - g. How will I know the medication is working? What are the expected effects of this medication?
 - h. Does this medication require specific monitoring such as blood pressure, vital signs, labs or specific drug levels?
 - i. When do I need to intervene to treat adverse/side effects?
 - j. What does my patient need to know about taking this medication?
- Study Regularly! Giving medications is a HUGE part of a nurse's day and many hospital-related deaths are due to medication errors. You cannot cram for an exam the night before and know everything you need to know about these medicines.
- You need to remember that while you are studying for pharmacology that this class is not as much about an A in the course, but about learning the information you need to begin administering medications SAFELY for your CAREER!!
- Doing medication math is something you need to master! You need to practice, practice, practice with med math! If you need help, come see us!

- **Prototype Drug MUST KNOW's:** Most of these will be discussed in class during lecture!! HIGHLY RECOMMEND MAKING FLASH CARDS FOR EACH DRUG ON YOUR PROTOTYPE LIST.
 - Generic name of drug (common trade name(s) will also be given)
 - Therapeutic Class (e.g. antihypertensive)
 - Pharmacologic Class (e.g. beta-blocker)
 - Mechanism of Action (usually it's physiologic effect - e.g. blocks beta 1 receptors)
 - Actions/Uses (summarize in a few words, don't collect everything!!)
 - Administration Alerts (nursing actions before/after administration, monitoring, labs or levels needed and nursing considerations e.g. give at bedtime, with 8 oz of water)
 - Adverse Effects (look for most common, black box warnings)
 - Contraindications (who shouldn't get the drug)
 - Antidote?

This is a foundational course. IF you put effort and time into it, you will succeed!
WE KNOW YOU WILL!! Heck you made it this far.

Appendix C Pharmacology Made EASY - ATI

You must complete a minimum of 1 hour of study time per module as evidenced by the Module Report that you are required to post in Canvas.

We highly recommend that you spend the time recommended by ATI for each module.

<i>Recommended Time</i> 				
MODULES	TIME	DRILLS*	TEST	TIME
Introduction	1 hr	10 items	25 items	25 min
Neurological System (2 parts)	3 hr	20 items	50 items	50 min
Musculoskeletal System	2 hr	10 items	25 items	25 min
Respiratory System	1.5 hr	10 items	25 items	25 min
Cardiovascular System	4 hr	10 items	25 items	25 min
Hematologic System	2 hr	10 items	25 items	25 min
Gastrointestinal System	2 hr	10 items	25 items	25 min
Reproductive and Genitourinary System	2.5 hr	10 items	25 items	25 min
Endocrine System	2.5 hr	10 items	25 items	25 min
Immune System	2.5 hr	10 items	25 items	25 min
Pain and Inflammation	3.5 hr	10 items	25 items	25 min
Infection	1.5 hr	10 items	25 items	25 min
Totals	28 hr	130 items	325 items	325 min

**Add one minute for each drill item.
Based on the recommended time for modules (30 hr) and tests (5.5 hr), this is between 2 to 3 credit hours of academic work!*