

JACKSON COLLEGE  
ASSOCIATE DEGREE NURSING

## ONLINE COURSE SYLLABUS

See bottom for Course Calendar

JACKSON COLLEGE  
NURSING DEPARTMENT  
COURSE SYLLABUS

<b><u>COURSE NUMBER</u></b>	<i>NUR 121</i>
<b><u>COURSE TITLE</u></b>	<i>Pharmacology</i>
<b><u>DEPARTMENT</u></b>	<i>Nursing</i>
<b><u>CREDITS</u></b>	<i>Three credits</i>
<b><u>CONTACT HOURS</u></b>	<i>15x3 = 45</i>

### **COURSE FACULTY and Office Hours**

Mike McGlynn, MSN, RN, FNP (517) 796-8485 Office JW 223  
[mcglynnmichaelc@jccmi.edu](mailto:mcglynnmichaelc@jccmi.edu)  
Office Hours: By Appointment

***Welcome to NUR 121, Pharmacology.*** This is a three credit course in beginning pharmacology for nursing students and other allied health students. It is also a good review for practicing nurses. NUR 121 online is offered during the Fall, Winter, and Spring semesters.

This course is offered entirely online; except for 2 proctored exams and a proctored math exam (the math exam and midterm may be taken at the same time to reduce your trips). You may take these exams at Jackson College, or if you live outside of Jackson County you may identify a proctored location and inform the course instructors by the due date listed on the course calendar.

### **COURSE DESCRIPTION**

*Students are introduced to basic knowledge and skills needed to safely administer medications to clients with self-care needs. This course includes medication action, use, side effects, nursing implications, and client education for major drug groups.*

## **PREREQUISITES**

*Math: MAT 031 or MAT 033 or MAT 035 or higher*  
*Anatomy and Physiology BIO 132 or BIO 155 or BIO 253 and 254 OR Body Structure and Function LPN 141 or MOA 141*

*Chemistry recommended*

## **PERFORMANCE OUTCOMES**

*Provider of Care:*

1. Define the terms used in the study of pharmacology.
2. Identify and describe the principles of drug action including absorption, distribution, metabolism and excretion; drug-receptor interactions and categories of adverse effects.
3. Demonstrate an understanding of common characteristics of drug classes: mechanisms of action, uses, side effects, examples of common drugs in each category and nursing responsibilities related to the administration of drugs in each class.
4. Explain the use of the nursing process in drug therapy.
5. Demonstrate accuracy in calculating dosages of drugs and intravenous drip rates.
6. Describe a teaching plan for a patient learning to use a new medication.
7. Describe the alterations in drug effect on the elderly patient.
8. Demonstrate ability to think critically during class and small group discussions.

*Manager of Care:*

1. Identify members of the health team who collaborate with the nurse in providing care for patients receiving medications.

*Member of Profession:*

1. Describe the legal and ethical responsibilities of the professional nurse when administering medications.

## **BASIC COMPETENCIES REQUIREMENTS**

- Ability to read an above average amount of technical material
- Ability to compute simple algebraic problems
- Ability to use metric system of measurement
- Ability to use a computer and navigate the World Wide Web

## **CHECKING YOUR COURSE GRADE OR TRANSCRIPT**

All grades and transcript information is accessed online. Following are instructions:

1. Go to [www.jccmi.edu](http://www.jccmi.edu).
2. Click on e-Services.
3. Choose the Students tab.
4. Find transcripts and grades.

## **COURSE PARTICIPATION**

- You must be participating in the course to remain in the course on 3 participation reporting dates or you will be recommended to be dropped or withdrawn based on the date from the course per JC policy and would need to apply for reenrollment.
- You must officially drop or withdraw based on date from the course if you decide not to continue in the course. A grade must be issued for any course in which you are enrolled and have not dropped or withdrawn.

## **COURSE REQUIREMENTS**

In order to successfully complete this course, you must satisfactorily complete the following requirements.

### **Unit Content/Assignments**

These may include a:

- **Pre-Quiz** that allows you to check your prior knowledge related to the unit topics. This is for your own review and has no due date or points assigned so it will show a zero in the course gradebook. The zero is not counted in your point total.
- **Tutorial** that will direct your reading and learning. Plan to use it to help you be successful!
- **Discussion Questions** must be completed by the due date to receive credit according to the posted guidelines. *No credit will be given after the due date/time unless prior arrangements have been made.*
- **QUIZ** over the unit. Quizzes must complete each quiz by its due date to receive credit. *No credit will be given after the due date/time unless prior arrangements have been made.*

### **Math Quiz**

Unit 3 Drug Measurement (Calculations) will be done online. This is an excellent preparation for the math midterm test.

**Unit 3 has a math tutorial using Unit Analysis.** I recommend that you use this method, although you may use any mathematically sound method for your math calculations.

PLEASE BE AWARE THAT YOU MUST ALSO TAKE A PROCTORED MATH EXAM THAT MUST BE PASSED WITH A 90% GRADE. Therefore it is in your best interest to be sure you understand how to perform math calculations. You will take the proctored math exam during midterm week, or at the same time as your midterm exam (see # 4 below). Because it is so important to be able to calculate correctly, you must obtain at least a 90% on this exam – but don't panic; you can retake the test twice by the final exam due date. However, if you are well prepared and pass it on your first attempt, you will avoid repeat trips to your proctor site. **Once you achieve 90%, all of your attempts will be**

averaged for your final math exam grade. **Please know a grade of 26/30 rounds to 90%**, so ignore the % on Jetnet. If you score 26 or higher on the midterm math you meet the course math requirement.

If additional math retakes are necessary, you must complete the course math tutorial prior to retaking the math exam.

### **ADVICE FROM A STUDENT**

#### **Math Advice**

*I have never used unit analysis before this class ... but I did buy the "Clinical Calculations Made Easy: Solving Problems Using Dimensional Analysis" book from the book store. I used that book to practice on a variety of questions and found it extremely helpful. I think if other people are having difficulties they should consider buying it. It was definitely worth the cost and time. I have to admit that I had a lot of fun with them ... it became kind of like a game. I used to have problems with unit conversions in general but this makes sense to me. I am so glad I learned it using this method that you recommended ... I think it will be very helpful in the future (with nursing as well as other areas).*

*Note from your faculty - we also now have a free web based tutorial in the course that does an excellent job teaching unit analysis.*

### **Discussions**

You will be placed into a discussion group during the first week of the course. After Unit One, each unit will have a Discussion Assignment where you will discuss answers to posted questions with your group. These questions will help you learn key concepts that are important in both your nursing career and in your exam success in this course! Each discussion is worth a maximum of 6 points (2 postings of 3 points each). It is important to earn the discussion points for their contribution to the final course grade.

**Note:** No discussion answer posted after the due date/time will be given credit.

### **Discussion Guidelines to Earn Points**

Please follow these guidelines to receive your discussion points. Discussion questions highlight important concepts in the course to aid your learning as they may be concepts that are tested.

**No points are given after the due date for discussions unless prior arrangements are made.**

1. You will be placed into a discussion group beginning with the second unit discussion. (Unit One discussion is your personal introduction to the class and is not for points).
2. You will select one posted discussion question to answer worth **3 points** that has not already been answered and posted by other group members.  
\*If no questions remain, then you may select any question and provide additional information in your answer that was not included in another student's answer. The answer must be your own work and not copied from another student.
3. The first person in the discussion group to post will begin the thread for posting. Then other group members will post their answers as a reply (sub thread) under this initial student's posting. This allows everyone to easily read the postings on one page without having to open individual posts. **Do not create your own initial posting thread or it will not be a sub thread and you may not receive points for the posting.**
4. A second posting which is a reply in a professional, positive manner to one group member's posting is required to earn the other **3 points**. Replies may include additional information about the topic, clarifications, or informative experience sharing that adds to others knowledge. Points will not be given for statements that simply say 'I agree', 'that happened to me/family', are negative in nature or do not add additional knowledge to the posted answer. Discussions should add to the knowledge and learning of everyone in the group.  
  
\*If no postings are available to reply to, then the student has the option of selecting and answering a second question to receive these reply points.
5. You should know the answers to all questions as these questions are designed to aid your learning for exams.

## Exams

Proctored (supervised) exams are part of the course: Midterm, and Final exam. The Math exam is also proctored. All exams and the initial attempt on the math exam must be completed **by the dates listed on the course calendar** to avoid point deductions as outlined below. These exams can be taken at the Jackson College Testing Center in the W. Atkinson building 118 or at your proctored testing site.

**Proctors:** If you live out of the Jackson County area, you may make arrangements with a school testing center that is local to you. **You must find a testing center willing to proctor your exams and email us the contact person's name/title, business email address (no personal e-mail addresses are accepted), and phone number.** Testing is not permitted in proctor's homes. We will then contact this person and if they meet proctoring criteria we will send them your exams with instructions. Please be aware that some testing centers charge a fee for testing. Students who registered for the course through the MCCVLC might not be charged. **IF YOU WISH TO TAKE THE EXAMS OUTSIDE OF JC, YOU MUST SEND THE NAME OF YOUR PROCTOR TO US BY THE LISTED DUE DATE or you will test at JC.**

*If it is requested once the due date has passed, to take a proctored exam after the due date listed on your course calendar, 10% may be deducted from the score. Arrangements made prior to the exam due date will not result in the deduction. **If an exam is not taken within two weeks after the due date, it may not be taken unless prior arrangements have been made in writing.***

*The final exam and a final math exam retake must be completed by the final exam due date on the course calendar unless prior arrangements are made. Please plan to take them on time!!! Calculators may be used for the exams but are not essential. Cell phones are NOT allowed in place of calculators on exams.*

### **STUDENT EVALUATION CRITERIA (Grading Policies)**

1. Each student is evaluated on satisfactory knowledge of theory as demonstrated by the grade averaged from exams and course assignments. See the Course Points section below for more information on grading components.
  - a. The course calendar contains the dates for exams and quizzes.
  - b. Testing will be based on the behavioral objectives identified in the Tutorials. Quizzes and exams will consist primarily of multiple choice, multiple response, true or false, and fill in the blank questions.
  - c. **I strongly recommend that you study all material prior to taking any quiz.** Since you will be taking your quizzes independently, it is up to you whether or not you use your book. **Your exams will be proctored and you will NOT be able to use your book/notes, so it is important to know the material without the aid of your book or notes.**
  - d. Any test question determined by the instructor to be unworthy of counting against the grade will be cheerfully adjusted by giving credit for any answer on that question.
  - e. Any student who chooses to cheat on a test will receive a maximum grade of 1.5 in the course. (See Academic Honesty policy.)
  - f. During the midterm exam week, students will be given a medication calculations exam. **Because the ability to accurately calculate medication dosages is vital to safe nursing practice, all students will be required to pass this exam with a minimum of 90%.** If it is not passed with a 90% grade, students are advised to use the calculations web resource available on JetNet or

purchase the calculations text and complete it independently. **The calculations exam may be retaken through the final exam due date until it is passed with a 90% grade. If the calculations exam is not passed at 90% by the last day of the course, the student will receive a maximum 1.5 grade in the course.** Once the competency is met, the average of all medication calculations exams taken will be used to figure the final grade.

2. This course contains three grading components. Component One is Midterm Exam, and Final exam scores which must average 78% when added together. Component Two is the math exam which must be passed with a 90% or higher. Component Three is all course grades including proctored exams, math exam, quiz and discussion scores. A student must earn a minimum of 78% average on the proctored exams **and** a 90% on the proctored math exam **and** a 78% average in the course in order to pass the course requirements.

Although it is possible to pass the course with less than a 78% average on the quizzes and discussion component, the student should be aware that the grade in this component will be averaged into the final grade and could cause a failure. **Be sure to complete all assignments including the discussions!**

**A student who earns less than a 78% average on Component One – Exams, or less than 90% on the math exam, or less than a 78% average on all components averaged together will receive a maximum grade of 1.5 for the course.**

#### Summary of Grading Components

The following requirements must be met to pass NUR 121 with a 2.0 grade:

1. Minimum of 78% average on proctored exams: Midterm, and Final.
2. Minimum of 90% on math exam, 26/30 (may be retaken as defined above).
3. Minimum of 78% average on all course requirements combined.

3. A final grade of 2.0 (78%) or above is required for entering or continuing in the nursing program.
4. **Each student is expected to keep a record of grades on the worksheet provided below so he/she will be aware of his/her grade at all times. Do not rely on the Jetnet course grade book totals as this grade book does not factor in the course grading policy and could give inaccurate understanding of one's course grade. If an assignment grade is missing, it is the student's responsibility to contact the instructor as soon as possible to discuss the assignment grade.**

5. Please note that it is the policy of the nursing department that extra credit assignments are inappropriate sources of points for students wishing to enter a health care field.

The grading scale is:

4.0 = 94-100%	1.5 = 74-77%
3.5 = 90- 93%	1.0 = 70-73%
3.0 = 86- 89%	0.5 = 66-69%
2.5 = 82- 85%	0.0 = 65% or below
<u>2.0 = 78-81%</u>	

**TEXTBOOKS: Required Textbook:**

Lehne, Richard. Pharmacology for Nursing Care, 9th edition, 2015

This required text is available electronically via online purchase.  
ISBN # 978-0323321907

**Optional Resources:**

*Craig, G. Clinical Calculations Made Easy: Solving Problems using Dimensional Analysis, Lippincott*

**Supporting Textbooks:**

*Any current medical/nursing dictionary  
Any anatomy and physiology textbook*

**Course Outline**

Drug action, measurement, administration, use, side effects, nursing implications, and client education related to the following drug categories will be covered:

1. Drugs used to treat infections
2. Drugs used in cancer treatment
3. Drugs that affect the autonomic nervous system
4. Drugs that affect the central nervous system
5. Drugs that affect the cardiovascular system
6. Drugs that affect the endocrine system
7. Drugs that affect the respiratory system
8. Drugs that affect the digestive system
9. Herbal Agents

**NURSING DEPARTMENT ACADEMIC HONESTY POLICY**

Honesty and integrity are essential qualities in the profession of nursing. Any student found to be cheating on an exam, quiz, or other assessment will receive a maximum grade of 1.5 in the course. Lack of integrity in the classroom or clinical setting may result in failing a course or removal from the program.

Cheating can take on many forms. These may include but are not limited to:

- bringing an answer source to the testing site.
- copying from another student's test.
- changing an answer after a test has been submitted.
- sharing information about a test with someone who has not yet taken it.

Plagiarism is another form of cheating. This may involve but is not limited to:

- submitting a paper written by someone else (obtained from the web or a fellow student).



- using direct quotes from any source without crediting the source.

Additional areas of concern specific to nursing include but are not limited to:

- covering up or not reporting a clinical error.
- charting something that was not done.
- altering any legal documentation.

Not everything is cheating. Some examples of acceptable practices include:

- studying together prior to an exam.
- sharing notes from class.
- using quotes in papers and referencing them appropriately.

If you are unsure if a practice might be considered cheating, please check with an instructor and/or do not engage in that practice. Please remember that failing a course may mean permanent dismissal from the program.

THE BEST POLICY IS ALWAYS HONESTY AND INTEGRITY.

**JACKSON COMMUNITY COLLEGE  
ASSOCIATE IN APPLIED SCIENCE – NURSING  
TESTING AGREEMENT**

***Student please review each statement.***

- No study aids (textbooks, notebooks, etc.) are allowed in the testing room.
- No papers, books, food or drink, pens, purses, wallets, watches, beepers, cell phones or any other electronic devices are allowed in the testing room
- No hats, scarves, or coats may be worn in the testing room.
- One sheet of blank paper and one pencil may be taken into the testing room. The paper must be turned in to the proctor upon leaving the room.
- Candidates must present a photo ID prior to testing. The ID will be returned when the test is submitted.
- Candidates may not leave the testing room without the test proctor's permission. If the candidate must leave the room for a restroom break, the photo ID and exam will be left with the proctor until the student's return.
- Irregular behavior – for example not listening to proctor, talking during the test, or rude behavior may result in dismissal from the center and test failure.
- Accessing the internet or any other item on the computer (other than the assigned test) during a test is prohibited.
- Removing any paper or other resources from the testing area is prohibited.

**CANDIDATES WILL NOT UNDER ANY CIRCUMSTANCES DISCLOSE ANY EXAMINATION MATERIALS INCLUDING THE NATURE OR CONTENT OF EXAMINATION ITEMS BEFORE, DURING, OR AFTER THE EXAMINATION. VIOLATION WILL RESULT IN IMPLEMENTATION OF THE NURSING**

**DEPARTMENT ACADEMIC HONESTY POLICY AND MAY RESULT IN A ZERO GRADE ON THE EXAM AND/OR THE COURSE.**

*I understand that failure to comply with any of the above regulations before, during, or after a test may result in dismissal from the testing area and/or test and/or course*

Topic	Points Earned	Running Total Possible	Running Total Earned	Percent = Total earned divided by Total possible
Proctored Midterm Exam		100		
Proctored Final Exam		200		
			78% Achieved	Yes _____ No _____

failure.

**Course Points**

Print the point summary worksheet below to keep track of your progress. There is a component summary table that organizes the grading components for you as that is how a passing grade is figured. When calculating a component grade, add earned component points to date, and divide by all the possible same component points to date to know your percentage. (Or use total points for the course if calculating the final course total).

**POINT SUMMARY WORKSHEET**

**Component 1: Proctored Exam Grading**

**Component 2: Proctored Math Exam Grading**

Topic	Percent = Total Points earned divided by Total Points possible (min	90% Achieved
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Scavenger Hunt		10		10		
Intro		5		15		
Nsg Process; Legal/Ethical; Pharm Princ	6	40		61		
Mail In Math		30		91		
Med Admin	6	15		112		
ANS	6	15		133		
CNS	6	25		164		
CV	6	25		195		
Endocrine	6	25		226		
Respiratory	6	25		257		
Antibiotics	6	25		288		
Oncology	6	15		309		
GI	6	25		340		

	of 26/30 on any attempt)	
Proctored Math Exam		Yes _____ No _____

**Component 3: Quiz and Discussion Grading**

**Cont'd Below**

**Grading Component Summary Table**

<b>Grading Component 1</b>	Your Total Points on Proctored Exams	_____ / 300	= _____ % (78% required)
<b>Grading Component 2 (26/30 or better on any attempt)</b>	Your Math Exam %	+ _____ / 30	= _____ % (90% required)
<b>Grading Component 3</b>	Your Quiz and Discussion Total Points	+ _____ / 340	
<b>Grand Total</b>	Your Course Total Earned Points	= _____ / 670	_____ % (78% required)

## NUR 121 Pharmacology Course Calendar

Unit/Topic	Unit Begins (May work ahead on Units)	Last date to submit unit assignments/exams for points	Chapters in Lehne <u>Skim as a resource for learning</u>	'My checklist' for unit content and assignment completion
Unit 1 Introduction Scavenger Hunt	May 22/17	May 29 10:00 PM EST	None	<input type="checkbox"/> Scavenger Hunt <input type="checkbox"/> Tutorial <input type="checkbox"/> Discussion (no points) <input type="checkbox"/> Quiz
<p><b>If you have not shown course participation by returning the student contract, and/or completed Unit 1 work, or contacted me by May 29 you may be dropped/withdrawn from the course per JCC policy and will need to request to re-enroll.</b></p> <p><b>You must officially drop/withdraw from the course if you are not continuing in it at any time during the semester. Check the JCC calendar to determine the last date to drop the course and receive a refund and no W and last day to drop with a W. If you stop participating without contacting me, you may be withdrawn per the participation reporting policy (see syllabus).</b></p>				
Unit 2 Nursing Process, Pharmacokinetics/ Adverse Reactions, Legal/Ethical	May 29	June 5 10:00 PM EST	Lehne Chapter 1,2,3,4,5, 6, 7, 8,	<input type="checkbox"/> Tutorials <input type="checkbox"/> Discussion <input type="checkbox"/> Quiz

Commented [MMC1]:

**By June 6, send exam proctor name/email address to [mcglynnmichaec@jccmi.edu](mailto:mcglynnmichaec@jccmi.edu) if you are not using the main JCC test center. If proctor not provided by this due date, your proctored tests will be taken at JCC Main Campus Testing Center.**

Unit 3 Drug Calculations, Medication Administration	June 5	June 12 10:00 PM EST	No Lehne Chapters.  See Unit Tutorial. Appendix C	<input type="checkbox"/> Prequiz – <b>optional, not for points.</b> <input type="checkbox"/> Tutorials <input type="checkbox"/> Discussion <input type="checkbox"/> <b>2 Quizzes:</b> Online and online math
Unit 4 ANS Agents	June 12	June 19 10:00 PM EST	Lehne Chapters 13-19	<input type="checkbox"/> Tutorials <input type="checkbox"/> Discussion <input type="checkbox"/> Quiz
Unit 5 CNS Agents and NSAIDS	June 19	June 26 10:00 PM EST	Lehne Chapters 20- 22, 24-36, 71	<input type="checkbox"/> Prequiz <input type="checkbox"/> Tutorials <input type="checkbox"/> Discussion <input type="checkbox"/> Quiz
Unit 6 Cardiovascular Agents	June 26	July 3 10:00 PM EST	Lehne Chapters 41, 43-52	<input type="checkbox"/> Prequiz <input type="checkbox"/> Tutorials <input type="checkbox"/> Discussion <input type="checkbox"/> Quiz
<input type="checkbox"/> <b>Proctored Midterm Exam Units 1 - 6 and</b> <input type="checkbox"/> <b>Proctored Online Math Exam</b>	<b>June 30</b>	<b>July 10 10:00 PM EST</b>		<b>Midterm Review</b>
Unit 7 Endocrine Agents	July 3	July 10 10:00 PM EST	Lehne Chapters 57-60	<input type="checkbox"/> Prequiz <input type="checkbox"/> Tutorials <input type="checkbox"/> Discussion <input type="checkbox"/> Quiz
Unit 8 Respiratory Agents	July 10	July 17 10:00 PM EST	Lehne Chapters 76, 77	<input type="checkbox"/> Prequiz <input type="checkbox"/> Tutorial <input type="checkbox"/> Discussion <input type="checkbox"/> Quiz
Unit 9 Anti-infective Agents	July 17	Jul 24 10:00 PM EST	Lehne Chapters 83-91	(No pre-quiz) <input type="checkbox"/> Tutorial <input type="checkbox"/> Discussion <input type="checkbox"/> Quiz
Unit 10 Antineoplastic Agents	Jul 24	Jul 31 10:00 PM EST	Lehne Chapters 56, 101, (102-103)	<input type="checkbox"/> Prequiz <input type="checkbox"/> Tutorial <input type="checkbox"/> Discussion <input type="checkbox"/> Quiz
Unit 11 Gastrointestinal Agents Herbal Agents	July 31	Aug 7 10:00 PM EST	Lehne Chapters 78-80, 108	<input type="checkbox"/> Prequiz <input type="checkbox"/> Tutorial <input type="checkbox"/> Discussion <input type="checkbox"/> Quiz
<input type="checkbox"/> <b>Comprehensive Final Exam Units 1-11</b> <input type="checkbox"/> <b>Final attempt on Math Exam if needed.</b>	<b>Aug 4</b>	<b>Sat Aug 12 10:00 PM EST</b>		<input type="checkbox"/> <b>Final Review</b>