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**NUR 105 Pharmacology for Nurses
Spring 1 2019**

Course Description

NUR 105 Pharmacology for Nurses

Lecture 1; Lab 3; Course credit 1

This course is an introduction to the basic concepts of pharmacology related to drug administration. Dosage calculations are covered as well as concepts of medication administration and an overview of drug categories.

Prerequisites: Acceptance into the Nursing Program or Advanced Placement; completion of MAT 101 and MAT 102 or COMPASS placement for MAT 120.

Co-requisites: NUR 102, PSY 201, BIO 210.

Course Focus

This course is an introduction to the basic concepts of pharmacology related to drug administration. Dosage calculations are covered as well as concepts of medication administration and an overview of drug categories.

Texts

Required

Vallerand, A. H., Sanoski, C. A., & Deglin, J.H., (2015). *Davis's drug guide for nurses*. (15th ed.). Philadelphia: F.A. Davis.

Treas, L.S. & Wilkinson, J.M., (2018). *Basic nursing: Thinking, doing, and caring*. Philadelphia: F.A. Davis.

Karch, A.M., (2017). *Focus on Nursing Pharmacology*. (7th ed.). Philadelphia: Lippincott Williams & Wilkins.

Access to online Kaplan products.

The course-appropriate lab kit is also required.

Optional

Pickar, G. D. & Abernethy, A. P. (2016). *Dosage calculations; A ratio-proportion approach* (4th ed.). Stamford, CT: Cengage Learning.

Course Outcomes. Upon successful completion of the course a student will be able to:

1. describe the nursing student's role in safe and effective administration of selected medications.
2. outline the nurse's fundamental responsibilities with respect to medication administration.
3. state the major characteristics of selected drug classifications.
4. accurately solve beginning dosage calculation problems.

Course Topic Outline/Purpose. See course website for detailed outline.

1. Dosage Calculations
2. Administration of oral medications
3. Parenteral administration
4. Topical, transdermal, and mucosal administration
5. Pharmacodynamics and pharmacokinetics
6. Scheduled drugs and pregnancy risk
7. Legal and ethical issues
8. Overview of drug classifications and actions

Course Goals. The following goals will be addressed in the course (*designates CRUCIAL goals).

1. Describe safe and effective medication administration.
2. Solve word problems.
3. Review mathematical operations.
4. Outline legal and ethical medication administration responsibilities.*
5. Solve dosage calculation problems.*
6. Interpret prescriptions.
7. Apply safety practices.*
8. Identify medication-related complications.
9. Administer and document select medications.*
10. Read syringe medication volume.*
11. Discern needle sizes.*
12. Characterize drug classifications.

Student Contributions

Classes are designed to employ a variety of teaching techniques. In order to maximize learning, all required readings as well as laboratory and online learning activities should be completed. If a student is falling behind in lab performance and/or academic achievement, it is imperative to seek immediate assistance from the instructor.

Achievement assessments may be given to assist in the evaluation of individual student progress and to support student success. The dates for completion of these tests are posted on the course calendar. Students who do not achieve the required scores are encouraged to meet with the course coordinator and complete the prescribed remediation. The date for completion of remediation, completion of tutorials, and/or focused assessments, when required, are determined by the course coordinator. Failure to complete testing, tutorials, or required remediation by the dates indicated will result in a grade of **Incomplete** ("I") for the course and non-progression in the nursing program. Students having difficulty with the online tutorials or tests must speak personally with the course coordinator three (3) business days or more in advance of the published due dates.

Nursing Laboratory

Learning experiences in the nursing laboratory provide an opportunity for the student to become familiar with equipment and techniques. The student utilizes the nursing laboratory to practice new skills. Skills must be practiced in the laboratory before being used in the clinical setting. Competence must be demonstrated in the nursing laboratory. Students are responsible for material covered in campus laboratory. In order to progress in the course and program, by the end of the course each student **MUST** achieve a satisfactory skill criterion and demonstrate competence in laboratory skills. All labs start on time.

At the conclusion of each laboratory experience, the student's performance is evaluated. The student's performance is evaluated based on environmental contribution, attendance, professional appearance, and preparedness. Expectations include the following:

encouraged to consult with Financial Aid prior to withdrawing from any class, particularly if the student is currently on a warning or probation status.

- b. Failure to log in at least once weekly and complete assignments will result in the student being withdrawn from the course. The instructor will assign a grade of "W," "WP," or "WF" based upon the student's academic standing at the last date of attendance, which is the last login. Students are responsible for any financial matters associated with an administrative withdrawal. If a student fails to email the instructor (using the my.tcl.edu email account) requesting to be dropped from the course and has not submitted the initial assignment required during the first week of class, the instructor will assign a "Never Attended" code in the student information system no later than ten calendar days after the first day of the class. Students who are dropped as a result of never attending the course are still responsible for all fees associated with the course.
 - c. Under extenuating circumstances and at the discretion of the faculty member teaching the class, the student may be allowed to continue in the class and make-up the work. This exception must be documented at the time the allowed absences are exceeded.
 - d. Absences are counted from the first day of class. There are no "excused" absences. All absences are counted, regardless of the reason for the absence.
4. A student must take the final exam or be excused from the final exam in order to earn a non-withdrawal grade.
 5. Students are expected to be in class *on time*. Arrival to class after the scheduled start time or leaving class prior to dismissal counts as a tardy. Three tardies and/or early departures are considered as one absence unless stated otherwise. Arrival to class, clinical, and lab by the published time is an expectation for all students. Class, clinical, and lab times are measured by the clock in these teaching areas. Failure to attend class, clinical, and lab on time as measured by the clock in these areas may result in unsatisfactory scores.
 6. It is the student's responsibility to sign the roll/verify attendance with instructor upon entering the lab. Failure to sign the roll/verify attendance results in a recorded absence. In the event of tardiness, it is the student's responsibility to insure that attendance is marked. The student is responsible for all material/ announcements presented, whether present or absent.

A copy of TCL's STATEMENT OF POLICY NUMBER: 3-1-307 CLASS ATTENDANCE (WITHDRAWAL) is on file in the Division Office and in the Learning Resources Center.

HAZARDOUS WEATHER

In case weather conditions are so severe that operation of the College may clearly pose a hardship on students and staff traveling to the College, notification of closing will be made through the following radio and television stations: WYKZ 98.7, WGCO 98.3, WGZO 103.1, WFXH 106.1, WWVW 106.9, WLOW 107.9, WGZR 104.9, WFXH 1130 AM, WLVH 101.1, WSOK 1230 AM, WAEV 97.3, WTOC TV, WTGS TV, WJWJ TV, and WSAV TV. Students, faculty and staff are highly encouraged to opt in to the Emergency Text Message Alert System. With TCL's Text Alerts you can receive immediate notification of emergency events via text messaging on your cell phone. All students are strongly encouraged to register their cell phones with this service. Signing up is easy, just fill out the simple form on the TCL website

<https://tcl.reggroup.com/signup>

ACADEMIC MISCONDUCT

There is no tolerance at TCL for academic dishonesty and misconduct. The College expects all students to conduct themselves with dignity and to maintain high standards of responsible citizenship.

It is the student's responsibility to address any questions regarding what might constitute academic misconduct to the course instructor for further clarification.

The College adheres to the Student Code for the South Carolina Technical College System. Copies of the Student Code and Grievance Procedure are provided in the *TCL Student Handbook*, the Division Office, and the Learning Resources Center.

Health care professionals hold the public trust. Academic misconduct by health science students calls that trust into question and academic integrity is expected.

It is a fundamental requirement that any work presented by students will be their own. Examples of academic misconduct include (but are not limited to):

1. copying the work of another student or allowing another student to copy working papers, printed output, electronic files, quizzes, tests, or assignments.
2. completing the work of another student or allowing another student to complete or contribute to working papers, printed output, electronic files, quizzes, tests, or assignments.
3. viewing another student's computer screen during a quiz or examinations.
4. talking or communicating with another student during a test.
5. violating procedures prescribed by the instructor to protect the integrity of a quiz, test, or assignment.
6. plagiarism in any form, including, but not limited to: copying/pasting from a website, textbook, previously submitted student work, or any instructor-prepared class material; obvious violation of any copyright-protected materials.
7. knowingly aiding a person involved in academic misconduct.
8. providing false information to staff and/or faculty.
9. entering an office unaccompanied by faculty or staff.
10. misuse of electronic devices.

GRADING POLICY

Grading scale	
90% - 100% A	W withdraw
82% - 89% B	WP withdraw with passing grade
75% - 81% C	WF withdraw with failing grade
70% - 74% D	I Incomplete
Below 70% F	

Grading Methodology. The final grade must be 75.000 or more in order to pass the course and progress in the program. Students absent from an examination or presentation will receive a "0" grade for the examination unless other arrangements are made with the instructor prior to the examination or presentation day or on the examination or presentation day before the test/presentation is scheduled to be given. Arrangements may be completed by telephone. If the instructor is not available, a message should be left on the instructor's voice mail AND with another member of the faculty or administrative assistant. Messages sent by other students are unacceptable. The student is responsible for notifying the instructor for the reason of the absence. Students who are tardy for an examination will take the examination in the remaining allotted time. For paper & pencil tests, only the answers recorded on the Scantron form are graded.

Make up examinations *may* be offered, at the instructor's discretion, during the final examination period. Additional options for make-up testing include reweighting the final examination. It is the responsibility of the student to contact the appropriate instructor to arrange to make up the examination. The instructor will decide the method of examination. Grades are posted on Blackboard within one week of administration of tests and examinations.

Lab skills checklist must be complete. Incomplete checklist results in a grade of "U" (unsatisfactory) for the laboratory component of the course. An *unsatisfactory* in the laboratory portion of the course results in the **failure of the course** even if the theory grade is 75 or higher. Students are expected to perform accurate return demonstrations of skills before using the skill in the clinical area.

During examinations, students must remove watches and hats and place in the front of the classroom, along with all personal belongings and electronic devices.

There is a 10 point penalty on the examination for any noise emitting from an electronic device.

Honorlock Online Proctoring and Technology Requirements

TCL uses an online test proctoring service called Honorlock to monitor some online tests as an alternative to in-person proctoring. Your instructor may elect to have some of your tests proctored using Honorlock. If so, you will need to make sure that you have access to the necessary equipment in order to take your online-proctored tests:

- A computer with access to a high speed Internet connection
- The ability to install the Honorlock extension on Google Chrome
- A webcam and microphone. A functioning webcam and microphone are required to complete proctored online tests.
- Microsoft Office. Microsoft Office can be downloaded for free by accessing the Office 365 link in your TCL email account.

COMMUNICATION

Instructors will generally respond to voice mail messages and e-mail messages as soon as possible. If there is a problem, the student should remember that a face-to-face meeting with the instructor is best. Student should contact instructor to make an appointment.

Students

- Contact information for instructors is listed in the course syllabus.
- The student is responsible for making sure that the instructor and College have his/her current contact information, including telephone number(s) and e-mail address.
- **All** students are expected to establish a TCL email account. The student is responsible for checking the TCL email account daily.
- The student is responsible for checking the course Blackboard site regularly (at least once a week).

Voice Messages

- Instructors' telephone numbers and the Division Administrative Assistant's telephone number are listed on the course syllabus.
- When leaving a voice mail message, speak slowly and clearly. Leave accurate information including accurate telephone number(s) for callback. It is helpful to repeat the telephone number at the end of the voice message.
- The Division Administrative Assistant is available Monday through Thursday from 8:00-4:30 pm and Friday from 8:00-11:30am. A message left with the Administrative Assistant will be received by the instructor when he/she checks the mailbox. The most efficient way to get a voice mail message to an instructor is to leave a voicemail at the instructor's contact number.

E-mail Messages

- The instructor's e-mail address is listed on the course syllabus.
- When e-mailing the instructor, the student should identify herself/himself in the body of the message. Identifying information should include name and student ID #, course and section in which the student is enrolled, and a telephone number where he/she may be reached. It might be helpful to create a "signature" with this information for all e-mails.

COURSE POLICIES/PROCEDURES

- **All cell phones and pagers must be turned off during class (lecture and laboratory periods).**
- Students are held accountable for content in the nursing student handbook and Health Science Division Student Handbook. A link is provided on Blackboard.
- Instructors will excuse a student from class who disrupts the class or lab.
- No course grades are posted in public areas. Grades are available through WebAdvisor. For questions, contact the TCL Help Desk at 525-8344.

- In order to maximize learning, required readings should be done prior to a unit. If a student is falling behind in academic achievement, it is imperative to seek immediate assistance from the instructors.
- Classes are designed to employ a variety of teaching/learning strategies.

Instructional Methods	
Assigned readings	Kaplan Focused Assessments
Case studies	Group discussion
Demonstration/return demonstration	Laboratory practice
Online learning modules	Test reviews
Self-paced programs	Tests/quizzes/final examination
Small group exercises	Written assignments

COMPUTER REQUIREMENTS. To ensure successful completion of an online course, a student should have an appropriately equipped computer. Use guidelines included on the TCL website.

USER RESPONSIBILITY ON USE AND DUPLICATION OF COMPUTER SOFTWARE (TCL PROCEDURE 7-1-702.5). Students are responsible for the legal use of computer software and applicable copyright laws and are prohibited from copying software on College computers and from installing personal software.

Other Required Materials	
TCL student nurse name pin – <i>wear to all labs</i>	Gloves
Black Ball point pen (No gel pens)	Lab pack – <i>Do not open until directed to do so.</i>
	Simple calculator <i>without advanced functions or memory</i>

Course Coordinator Ashley Turbeville, MSN, RN
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Friday: 8:00-11:30

Asynchronous discussion enhances learning as you share your ideas, perspectives, and experiences with the class. You develop and refine your thoughts through the writing process, plus broaden your classmates' understanding of the course content. Use the following feedback to improve the quality of your discussion content.

Criteria	Unacceptable "0" points	Poor "5" point	Good "10" points	Excellent "25" points
Initial Assignment Posting	Does not post assignment.	Posts adequate assignment with superficial thought and preparation; Responds to 1-3 questions.	Posts well developed assignment that addresses all aspects of the task; Responds to 4-5 questions.	Posts well developed assignment that fully addresses and develops all aspects of the task. Responds to 6 questions.
Follow-up Postings	Posts no follow-up responses to others.	Posts shallow contribution to discussion (e.g., agrees or disagrees); does not enrich discussion.	Elaborates on an existing posting with further comment or observation.	Demonstrates analysis of others' posts; extends meaningful discussion by building on previous posts.
Content Contribution	Posts information that is off-topic, incorrect, or irrelevant to discussion.	Repeats but does not add substantive information to the discussion.	Posts information that is factually correct; lacks full development of concept or thought.	Posts factually correct, reflective and substantive contribution; advances discussion.
Clarity & Mechanics	Posts long, unorganized or rude content with 6 or more grammatical or spelling errors.	Communicates in friendly, courteous and helpful manner with clarity and 4-5 grammatical or spelling errors.	Contributes valuable information to discussion with clarity or 1-3 grammatical or spelling errors.	Contributes to discussion with clear, concise comments formatted in an easy to read style that is free of grammatical or spelling errors.

Grade Equivalent (100 points maximum):

- A = 90-100 points**
- B = 82-89 points**
- C = 75-81 points**
- D = 70-74 points**
- F = Below 70**

NUR 105 Pharmacology for Nurses - Skills Check List

'Satisfactory' Lab: Must receive "S" on all Skills.

Student Name _____

Spring 2019

Skill	Date completed	Student initials	Satisfactory (S) Unsatisfactory (U)	Demonstrated - Faculty initials	Comments
1. Administer PO meds					
2. Use med cart/other equipment					
3. Administer meds by feeding tube					
4. Administer topical, mucosal meds					
5. Administration of eye/ear medications					
6. Administer subcut anticoagulants					
7. Draw up, mix, administer insulin					
8. Reconstitute powdered medications					
9. Safely open ampules					
10. Use of filter needle					
11. Draw medications into syringes					
12. Locate/choose parenteral sites					
13. Select correct syringe & needle					
14. IM injections; Z-track injections					
15. Administer Intradermal injections					
16. Administration of inhalers					
17. Administer suppositories					
18. Discontinue peripheral IV					