



**PNSG 2010 Introduction to Pharmacology and Calculations
COURSE SYLLABUS
Spring Semester 2022 (202214)**

The syllabus is subject to change. If changes are made, the student will be notified as soon as possible.

COURSE INFORMATION

Credit Hours/Minutes: 2/3000

Campus/Class Location: Swainsboro Campus, Building 8 room 8105

Exams will be in computer labs: 8109

Class Meets: Thursdays from 0900-1600; January 10, 2022 until March 17, 2022 and Wednesday March 16, 2022

Calculation reviews: 1/20/2022, 1/27/2022 from 1600-1630

Calculation exam attempts: 2/03/2022, 02/10/2022, 02/17/2022 from 0800-0900

Course Reference Number (CRN): 40155

INSTRUCTOR CONTACT INFORMATION

Instructor Name: Megan Guin, BSN, RN

Email Address: [Megan Guin mguin@southeasterntech.edu](mailto:Megan.Guin@southeasterntech.edu)

Office Location: Swainsboro Campus; Building 8 Office 8101

Office Hours: 0730-0900 and 1600-1700

Phone: 478-289-2306

Fax Number: 478-289-2336

Tutoring Hours: Please schedule an appointment.

Preferred Method of Contact: EMAIL

All communication with faculty should be completed using STC email. Please note that emails sent during business hours will be answered within 24-48 hours. Emails sent during holidays and on weekends may not be answered until the next business day.

SOUTHEASTERN TECHNICAL COLLEGE (STC) CATALOG AND HANDBOOK

Students are responsible for all policies and procedures and all other information included in Southeastern Technical College's [Catalog and Student Handbook](http://www.southeasterntech.edu/student-affairs/catalog-handbook.php) (<http://www.southeasterntech.edu/student-affairs/catalog-handbook.php>).

REQUIRED TEXT AND RESOURCES

1. Fundamentals of Nursing Care: Concepts, Connections, and Skills, 3rd Edition, FA Davis by Burton, Smith & Ludwig
2. Nursing Care Plans, 10th Edition, Doenges, Morehouse et al.
3. Davis's Nursing Skills **Videos** for LPN/LVN, 3rd Edition (This is not a book. Student has access to skills videos through FA Davis website.)

4. Pharmacology Clear and Simple, 3rd Edition, F.A. Davis, Watkins
5. Understanding Medical Surgical Nursing, 6th Edition, FA Davis, Williams and Hopper
6. Safe Maternity and Pediatric Nursing Care, Second Edition, FA Davis, Linnard-Palmer and Coats
7. Assessment Technologies Institute (ATI) web services and books

REQUIRED SUPPLIES & SOFTWARE

Pen, pencil, paper, highlighter, calculator, 3 ring binder, computer access and headphones.

Laptop/personal computer is required.

Suggested specifications include:

- Processor i5 or i7
- Memory 8GB or higher
- Hard drive 250GB or larger
- DVD Drive either internal or external

Required:

- Webcam with microphone
- A minimum internet speed of 5 Mbps. (10 Mbps or more is recommended). Test your internet speed using www.speedtest.net.

Google Chrome and Firefox are the recommended browsers to use for Blackboard Collaborate.

Google Chrome is the recommended browser to use for WebEx.

Google Chrome is the recommended browser to use for ATI.

Note: Although students can use their smart phones and tablets to access their online course(s), exams, discussions, assignments, and other graded activities should be performed on a personal computer. Neither Blackboard nor Georgia Virtual Technical Connection (GVTC) provide technical support for issues relating to the use of a smart phone or tablet so students are advised to not rely on these devices to take an online course.

Students should not share login credentials with others and should change passwords periodically to maintain security.

ATI Technical Requirements: Students have access to the most updated technical requirement recommendations at ATI website . Please note that smart phones and iPads do not support many of the modules within ATI.

Students are encouraged to take pictures of completed ATI modules/assignments that capture student name, date, time, score, and module name that is contained in one picture. Pictures will be emailed to instructor upon request if there is a question concerning a module/assignment completion.

It is the responsibility of the student to communicate technical issues with an ATI representative as the issue happens.

Students should not share login credentials with others and should change passwords periodically to maintain security.

COURSE DESCRIPTION

Applies fundamental mathematical concepts and includes basic drug administration. Emphasizes critical thinking skills. Topics include: systems of measurement, calculating drug problems, resource materials usage, fundamental pharmacology, administering medications in a simulated clinical environment, principles of IV therapy techniques, and client education.

MAJOR COURSE COMPETENCIES

1. Systems of Measurement
2. Medication Calculations
3. Resource Materials Usage
4. Fundamental Pharmacology
5. Client Education
6. Medication Administration (Simulated Clinical Environment)

PREREQUISITE(S)

Program admission

COURSE OUTLINE

Order	Systems of Measurement	Learning Domain	Level of Learning
1	Compare and Contrast methods of metric and household measurements.	Cognitive	Evaluation
2	Describe common units utilized in medications.	Cognitive	Comprehension
3	Differentiate the relationship between methods of measurement.	Cognitive	Analysis
Order	Medication Calculations	Learning Domain	Level of Learning
1	Perform computation of correct medication dosages.	Psychomotor	Guided Response
2	Perform calculations of I.V. fluid rate and intake.	Psychomotor	Guided Response
Order	Resource Materials Usage	Learning Domain	Level of Learning
1	Discuss reference sources for medications.	Cognitive	Comprehension
2	Research information on assigned medications.	Cognitive	Analysis
3	Identify the abbreviations associated with medication administration.	Cognitive	Knowledge
4	Interpret the information found in prescriptions and other medication labels.	Cognitive	Application
5	Interpret medication orders.	Cognitive	Application
Order	Fundamental Pharmacology	Learning Domain	Level of Learning
1	Explain medication origins and nomenclature.	Cognitive	Comprehension
2	Discuss commonly used over the counter pharmaceuticals including supplements.	Cognitive	Comprehension
3	Discuss actions, uses, contraindications, adverse reactions, dosages, routes, food and medication interactions, and implications for patient care of medications.	Cognitive	Comprehension

Order	Client Education	Learning Domain	Level of Learning
1	Integrate client education as it relates to various drug classifications and routes of medication administration.	Psychomotor	Complex Response
Order	Medication Administration (Simulated Clinical Environment)	Learning Domain	Level of Learning
1	Interpret the laws governing the use and misuse of medications.	Cognitive	Comprehension
2	Demonstrate correct administration of oral, parenteral and percutaneous medications.	Psychomotor	Guided Response
3	Recognize administration rights of patients.	Cognitive	Analysis
4	Consider administration rights of patients.	Affective	Valuing
5	Implement safety principles in medication administration.	Psychomotor	Mechanism
6	Integrate appropriate protocol for medication error reporting.	Cognitive	Synthesis
7	Demonstrate basic principles of intravenous therapy.	Psychomotor	Guided Response

GENERAL EDUCATION CORE COMPETENCIES

Southeastern Technical College has identified the following general education core competencies that graduates will attain:

1. The ability to utilize standard written English.
2. The ability to solve practical mathematical problems.
3. The ability to read, analyze, and interpret information.

COURSE REQUIREMENTS:

STC CAMPUS DRESS CODE (CLASSROOM, LAB)

Students will be asked to dress in professional nursing attire while in the classroom, skills lab and clinical. This will mean students will be expected to dress appropriately each day. Students will be asked to wear scrub pants and a t-shirt or a full scrub set (your choice of style and color) to class/lab each day. Students should wear shoes that are comfortable and have an enclosed heel and toe. A great example is a tennis shoe or nursing clog. During lab, hair should be pulled back and secured.

EXAMS

A unit exam average of 70 % or above must be obtained for the student to be eligible to take the final exam. The unit exam average accounts for 75 % of the final course grade, and the final exam grade accounts for 15 % of the final course grade. This calculation, based on referenced percentages, must be 70 % or above **before** ATI assignment percentage (5%) and medication template percentage (5%) is added in the calculation of the final course grade. If the student fails to meet the unit exam requirements, the student will receive a WP or WF for the course and will not be able to progress in the program. If the student earns below 70% between unit exams and the final exam, the student will not receive credit for the ATI assignment percentage (5%) and medication template percentage (5%) and, therefore, will receive an F for the course. The student will not be able to progress in the program.

No assignment opportunities will be given for extra credit. Any unit exam grade will be entered as is to the nearest 10th. No scores will be rounded (up or down). *For example: exam has 60 questions and each question*

will be worth 1.66 pts. The student correctly answers 52 questions out of 60. 52 correct answers x 1.66 = 86.32. The grade will be recorded as 86.3. This rule applies to every grade issued during the semester. All final averages will be recorded as is (i.e. a 69.9 is a 69.9).

ATI ASSIGNMENTS

ATI assignments listed on the lesson plan must be completed 1 hour prior to the scheduled exam. Scores earned on the first attempt of each ATI module will be used to calculate the average of ATI assignments which count 5% of the course grade. For assignments that score *strong, satisfactory, or needs improvement*, students will receive *100 for strong, 90 for satisfactory, and 70 for needs improvement*.

ATI products will be integrated into each course according to the PN ATI Curriculum Matrix. The syllabi will outline when the student will complete each ATI assignment. The use of these products allows for formative and summative evaluations and assists the faculty in making the necessary changes to the curriculum.

MEDICATION TEMPLATES

The student will complete **handwritten drug cards** using the ATI active learning template: medication.

Each category listed (Complications, Contraindications, Interactions, Nursing Interventions, and Client education) must have at least (4) written points and should be prioritized. When completing a medication template on a drug classification, include at least 3 generic medication names. Medication templates should be turned into the instructor on exam day at the start of the exam. The templates should be kept neat and orderly in a document folder. The instructor will return the folder to the student once grading is complete. Medication templates count 5% of the course grade.

See Medication Template Grading Rubric for details.

ON CAMPUS TESTING

On exam days, students will report to the assigned computer lab. Students will log onto the computer, open respondus lockdown browser, log onto to blackboard. The password for the exam will be provided to the students by the instructor, then the student may start the exam.

During an examination, students are required to place all textbooks and personal property on the floor in front of the classroom. No talking is allowed once the exam begins. Students found with their cell phone or any other personal communication device during the exam will be considered cheating; which will result in a zero for the exam. All exams are timed with students receiving one minute to answer each examination question. An additional minute will be added per calculation exam question.

If a student shows up late on an exam date or is not prepared to start the exam on time (for example: has laptop issues not related to school network, etc.), the student may not be allowed to take the exam once the faculty has shut the door. The student will have to make up the exam and this will be counted as their opportunity for a make-up exam. After each unit exam, students **must** review missed concepts and rationales allowing for remediation on the missed concepts. While testing in Blackboard, the remediation is provided in a one-time review immediately after the unit exam submission. If for some reason, testing through Blackboard is unavailable, students will review a paper copy of their unit exam in class. After the mandatory remediation review, if a student believes he/she needs further explanation of missed concepts, an appointment should be scheduled with his/her instructor or another faculty member. In addition, if a student believes a test question needs to be challenged, the student must email their instructor the rationale for consideration. This request

must be received via email within 24 hours of the examination. No verbal or text message requests will be granted. The test question and rationale will go before a panel of nursing faculty for decision.

CALCULATION EXAM

Students are required to take a calculation exam prior to attending clinical each semester as outlined on appropriate course syllabi. The student will have 3 attempts to score 100%. With each attempt a similar, but different exam will be given. The student will be allowed three minutes per problem. There will be a minimum of ten questions on the exam. The student will have at least one week between each attempt for remediation. Students will be allowed to use a standard calculator for the exam. No personal devices will be utilized for the exam. If a student is unsuccessful after three attempts; the student will receive a WP or WF for all PNSG courses in which they are enrolled and will not be able to progress in the program.

If a student misses an attempt due to an absence, the student may forfeit the attempt and may take the next scheduled attempt. An absence on a third attempt may be evaluated on an individual basis.

The importance of this is to promote safe medication administration in the clinical setting and reduce medication errors.

MAKEUP GUIDELINES (EXAMS, QUIZZES, HOMEWORK, PROJECTS, SKILLS, ETC.)

In the event of an absence on an exam day, the instructor may require a physician's excuse before a student is allowed to take a make-up exam. A student will only be allowed to make-up one theory exam which will be given at the discretion of the instructor. A grade of "0" will be given to all subsequent exams missed. The make-up exam may or may not be the same as the original exam. It may also be a different exam format. If a student misses the final exam and has already used their ONE time make-up, the student will NOT be allowed to make-up the final exam and be given a zero for the final exam.

It is the student's responsibility to obtain notes, lecture recordings, or information presented in class when the student is absent.

SPECIAL NOTE: During this course, occurrences may be issued for failure to meet classroom/lab requirements (tardiness, uncompleted/late work, and etc.).

COVID-19 MASK REQUIREMENT

Regardless of vaccination status, students are highly encouraged to wear masks or face coverings while in a classroom or lab at Southeastern Technical College. Masking may be implemented in some program areas (i.e. Health Sciences and Cosmetology) where students, faculty, and clients are in close proximity and social distancing cannot be maintained. This measure is being implemented to reduce COVID-19 related health risks for everyone engaged in the educational process. Masks or face coverings must be worn over the nose and mouth, in accordance with the Centers for Disease Control and Prevention (CDC).

COVID-19 SIGNS AND SYMPTOMS

We encourage individuals to monitor for the signs and symptoms of COVID-19 prior to coming on campus.

If you have experienced the symptoms listed below or have a body temperature 100.4°F or higher, we encourage you to self-quarantine at home and contact a primary care physician's office, local urgent care facility, or health department for further direction. Please notify your instructor(s) by email and do not come on campus for any reason.

COVID-19 Key Symptoms
Fever or felt feverish
Chills
Shortness of breath or difficulty breathing (not attributed to any other health condition)
Cough: new or worsening, not attributed to another health condition
Fatigue
Muscle or body aches
Headache
New loss of taste or smell
Sore throat (not attributed to any other health condition)
Congestion or runny nose (not attributed to any other health condition)
Nausea or vomiting
Diarrhea
In the past 14 days, if you:
Have had close contact with or are caring for an individual diagnosed with COVID-19 at home (not in healthcare setting), please do not come on campus and contact your instructor (s).

COVID-19 SELF-REPORTING REQUIREMENT

Students, regardless of vaccination status, who test positive for COVID-19 or who have been exposed to a COVID-19 positive person, are required to self-report using <https://www.southeasterntech.edu/covid-19/>. Report all positive cases of COVID-19 to your instructor and Stephannie Waters, Exposure Control Coordinator, swaters@southeasterntech.edu, 912-538-3195.

Med/Surg. (FA Davis) Online Resources

Completion of the Pharmacology Clear and Simple (FA Davis) Online Resources is highly recommended to help prepare you for exams and should increase your level of success in this class.

Power Points

Power points for each chapter are available on the FA Davis website.

Student Success Plan

The Student Success Plan documents deficiencies in performance and provides a means for improvement. A success plan should be initiated for the following reasons:

- If the student has (1) a cumulative unit exam average of < 70% after the completion of 25% of the unit exams or (2) a skill(s) performance deficiency. The faculty will initiate individual counseling session and complete the Student Success Plan.
- If the student has (1) a cumulative unit exam average of < 70% after the completion of 50 % of the unit exams or (2) a skill(s) performance deficiency. The faculty will initiate individual counseling session, as well as review and update the Student Success Plan and submit an Early Alert.
- If the student exhibits behavior outside the expected:
 - codes of conduct outlined in professional codes of ethics, professional standards,
 - All procedures/requirements/policies outlined in program handbooks/documents,

- STC e Catalog and Student Handbook, and/or
- Clinical facility policies and procedures.

The faculty will initiate an individual counseling session and complete an Academic Occurrence Notice and the Student Success Plan. The student success plan will be emailed to the student's STC email account by the instructor and the student should email the completed form back to the instructor by the designated date.

(T)echnical College System of Georgia (E)arly (A)lert (M)anagement (S)ystem (TEAMS) & The Student Success Plan are designed to ensure that students are well informed about strategies for success, including college resources and assistance. One of the responsibilities of the Program faculty is to monitor the academic progression of students throughout the curriculum. The faculty believes that the student is ultimately responsible for seeking assistance; however, faculty will meet or refer students who are having academic difficulties.

- TEAMS is designed to provide assistance for students who may need help with academics, attendance, personal hardships, etc.

Student Support

Specific information about the Student Support services listed below can be found at [STC Website \(www.southeasterntech.edu\)](http://www.southeasterntech.edu) by clicking on the Student Affairs tab.

- Tutoring
- Technical Support
- Textbook Assistance
- Work-Study Programs
- Community Resources

ATTENDANCE PROVISIONS HEALTH SCIENCES

Requirements for instructional hours within Health Science and Cosmetology programs reflect the rules of respective licensure boards and/or accrediting agencies. Therefore, these programs have stringent attendance policies. Each program's attendance policy is published in the program's handbook and/or syllabus which specify the number of allowable absences. All provisions for required make-up work in the classroom or clinical experiences are at the discretion of the instructor.

Attendance is counted from the first scheduled class meeting of each semester. To receive credit for a course a student must attend at least 90% of the scheduled instructional time. Time and/or work missed due to tardiness or absences must be made up at the convenience of the instructor. Any student attending less than the required scheduled instructional time (90%) may be dropped from the course as stated below in the Withdrawal Procedure.

For this class, which meets **60 hours**, the maximum number of hours a student can miss is **6 hours** during this semester.

Attendance will be taken at the beginning and throughout the duration of the virtual lecture meeting. In order for the student to be counted present during class, the student must have video turned on and actively participating in the course.

STUDENTS WITH DISABILITIES

Students with disabilities who believe that they may need accommodations in this class based on the impact of a disability are encouraged to contact the appropriate campus coordinator to request services.

Vidalia Campus: [Helen Thomas, \(hthomas@southeasterntech.edu\)](mailto:hthomas@southeasterntech.edu), 912-538-3126, Building A, Room 165.
Swainsboro Campus: [Daphne Scott \(dscott@southeasterntech.edu\)](mailto:dscott@southeasterntech.edu) 478-289-2274, Building 1, Room 1210.

SPECIFIC ABSENCES

Provisions for Instructional Time missed because of documented absences due to jury duty, military duty, court duty, or required job training will be made at the discretion of the instructor.

PREGNANCY

Southeastern Technical College does not discriminate on the basis of pregnancy. However, we can offer accommodations to students who are pregnant that need special consideration to successfully complete the course. If you think you will need accommodations due to pregnancy, please make arrangements with the appropriate campus coordinator.

Vidalia Campus: [Helen Thomas hthomas@southeasterntech.edu](mailto:hthomas@southeasterntech.edu) , 912-538-3126, Building A, Room 165
Swainsboro Campus: [Daphne Scott \(dscott@southeasterntech.edu\)](mailto:dscott@southeasterntech.edu) 478-289-2274, Building 1, Room 1210.

It is strongly encouraged that requests for consideration be made PRIOR to delivery and early enough in the pregnancy to ensure that all the required documentation is secured before the absence occurs. Requests made after delivery MAY NOT be accommodated. The coordinator will contact your instructor to discuss accommodations when all required documentation has been received. The instructor will then discuss a plan with you to make up missed assignments.

WITHDRAWAL PROCEDURE

Students wishing to officially withdraw from a course(s) or all courses after the drop/add period and prior to the 65% point of the term in which student is enrolled (date will be posted on the school calendar) must speak with a Career Counselor in Student Affairs and complete a Student Withdrawal Form. A grade of “W” (Withdrawn) is assigned for the course(s) when the student completes the withdrawal form.

Students who are dropped from courses due to attendance after drop/add until the 65% point of the semester will receive a “W” for the course.

Important – Student-initiated withdrawals are not allowed after the 65% point. Only instructors can drop students after the 65% point for violating the attendance procedure of the course. Students who are dropped from courses due to attendance or academic deficiency after the 65% point will receive either a “WP” (Withdrawn Passing) or “WF” (Withdrawn Failing) for the semester and will be unable to progress in the practical nursing program.

Informing your instructor that you will not return to his/her course, does not satisfy the approved withdrawal procedure outlined above.

There is no refund for partial reduction of hours. Withdrawals may affect students’ eligibility for financial aid for the current semester and in the future, so a student must also speak with a representative of the Financial Aid Office to determine any financial penalties that may be assessed due to the withdrawal. A grade of “W” will count in attempted hour calculations for the purpose of Financial Aid.

Remember - Informing your instructor that you will not return to his/her course does not satisfy the approved withdrawal procedure outlined above.

The 65% point for this course is 02/21/22.

ACADEMIC DISHONESTY POLICY

The Southeastern Technical College Academic Dishonesty Policy states that all forms of academic dishonesty, including but not limited to cheating on exams, plagiarism, collusion, and falsification of information, will call for discipline. The policy can also be found in the Southeastern Technical College Catalog and Student Handbook.

PROCEDURE FOR ACADEMIC MISCONDUCT

The procedure for dealing with academic misconduct and dishonesty is as follows:

1. First Offense

Student will be assigned a grade of "0" for the exam or assignment. Instructor keeps a record in course/program files and notes as first offense. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus. The Registrar will input the incident into Banner for tracking purposes.

2. Second Offense

Student is given a grade of "WF" (Withdrawn Failing) for the course in which offense occurs. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus indicating a "WF" has been issued as a result of second offense. The Registrar will input the incident into Banner for tracking purposes.

3. Third Offense

Student is given a grade of "WF" for the course in which the offense occurs. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus indicating a "WF" has been issued as a result of second offense. The Vice President for Student Affairs, or designee, will notify the student of suspension from college for a specified period of time. The Registrar will input the incident into Banner for tracking purposes.

STATEMENT OF NON-DISCRIMINATION

As set forth in the student catalog, Southeastern Technical College does not discriminate on the basis of race, color, creed, national or ethnic origin, sex, religion, disability, age, political affiliation or belief, genetic information, veteran status, or citizenship status (except in those special circumstances permitted or mandated by law).

The following individuals have been designated to handle inquiries regarding the nondiscrimination policies:

American With Disabilities Act (ADA)/Section 504 - Equity- Title IX (Students) – Office of Civil Rights (OCR) Compliance Officer	Title VI - Title IX (Employees) – Equal Employment Opportunity Commission (EEOC) Officer
Helen Thomas, Special Needs Specialist Vidalia Campus 3001 East 1 st Street, Vidalia Office 165 Phone: 912-538-3126 Email: Helen Thomas hthomas@southeasterntech.edu	Lanie Jonas, Director of Human Resources Vidalia Campus 3001 East 1 st Street, Vidalia Office 138B Phone: 912-538-3230 Email: Lanie Jonas ljonas@southeasterntech.edu

ACCESSIBILITY STATEMENT

Southeastern Technical College is committed to making course content accessible to individuals to comply

with the requirements of Section 508 of the Rehabilitation Act of Americans with Disabilities Act (ADA). If you find a problem that prevents access, please contact the course instructor.

GRIEVANCE PROCEDURES

Grievance procedures can be found in the Catalog and Handbook located on Southeastern Technical College's website.

ACCESS TO TECHNOLOGY

Students can now access Blackboard, Remote Lab Access, Student Email, Library Databases (Galileo), and BannerWeb via the mySTC portal or by clicking the Current Students link on the [Southeastern Technical College Website \(www.southeasterntech.edu\)](http://www.southeasterntech.edu).

TECHNICAL COLLEGE SYSTEM OF GEORGIA (TCSG) GUARANTEE/WARRANTY STATEMENT

The Technical College System of Georgia guarantees employers that graduates of State Technical Colleges shall possess skills and knowledge as prescribed by State Curriculum Standards. Should any graduate employee within two years of graduation be deemed lacking in said skills, that student shall be retrained in any State Technical College at no charge for instructional costs to either the student or the employer.

GRADING POLICY

Assessment/Assignment	Percentage
Unit Exams (Calculated based on 8 unit exams given)	75%
Final Exam (Calculated based on 1 final exam given)	15%
ATI Assignments (Calculated based on 38 assignments) A score of 70% or above between unit exams and the final exam must be obtained before medication template assignment percentage is added in the calculation of the final course grade.	5%
Medication Templates (Calculated based on 20 templates) A score of 70% or above between unit exams and the final exam must be obtained before medication template assignment percentage is added in the calculation of the final course grade.	5%
Calculation Exam (Student must score 100% on one of the three attempts in order to progress in the course and program. Students who do not meet the requirements for the Calculation Examination on the third attempt will receive a WP or WF for all PNSG courses in which they are enrolled and will not be able to progress in the program.)	Pass/Fail
Lab Skills Check-offs are a pass/fail for the following skills: Initiating a peripheral IV, and Discontinuing Peripheral IV. (Student must successfully perform skill within 2 attempts in order to progress in the course and program. Students who do not meet the requirements for skill check off after 2 attempts will receive a WP or WF for all PNSG courses in which they are enrolled and will not be able to progress in the program.)	Pass/Fail: Maximum of 2 attempts per skill

GRADING SCALE

Letter Grade	Range
A	90-100
B	80-89
C	70-79

Letter Grade	Range
D	60-69
F	0-59

**PNSG 2010 Introduction to Pharmacology/Clinical Calculations
Spring Semester 2022 Lesson Plan**

Date/Day	Chapter/Lesson	Content	Assignments & Exams Due Dates	Competency Area
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<p>1/13/22</p>	<p>Read chapters prior to class.</p> <p>Chapter 1 Chapter 2 Chapter 3</p> <p>Fundamentals of Nursing Care: Chapter 35</p> <p>RECOMMENDED READING: <i>ATI: PN Pharmacology for Nursing:</i> Chapter 1 Chapter 2 Chapter 5</p> <p>RECOMMENDED READING: <i>ATI: PN Fundamentals for Nursing:</i> Chapter 46 Chapter 47 Chapter 50</p>	<p>Introduction to class & syllabus review</p> <p>Handouts:</p> <ul style="list-style-type: none"> • Rounding Rules • Conversion Table • Drug calculation practice packet • Reading drug labels, oral dosages, and parenteral dosages • Common Pharmacologic Abbreviations <p>Ch 1 SELF STUDY: History of Pharmacology Ch 2 Basics of Pharmacology Ch 3 Patient Safety in Medication Administration</p> <p>Chapter 35: Fundamentals of Nursing Care: Researching and Preparing Medications</p> <p><u>SKILLS:</u> p. 2 Universal Steps for Medication Administration p.3 Universal Ending Steps for All Skills/Procedures p.4 Administering Oral Medications</p>	<p>Memorize rounding rules and conversion table. Review calculation problems daily.</p> <p>ATI ASSIGNMENTS required prior to EXAM 1:</p> <p>ATI Pharmacology Made Easy 4.0: 1. Introduction to Pharmacology</p> <p>ATI: Dosage Calculation and Safe Medication Administration 3.0 2. Safe Dosage</p> <p>3. Medication Administration</p> <p>ATI Skills Modules 3.0: 4. Concepts of Medication Administration</p> <p>ATI: Video Case Studies PN 2.0: 5. Medication Administration</p> <p>6. Safe Dosage</p>	<p>Course 1-6 Core A,B,C</p>
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<p>1/13/22 Continued</p>		<p><i>Davis's Nursing Skills Videos for LPN/LVN:</i></p> <ul style="list-style-type: none"> • <i>Medication Guidelines: Steps to Follow for All Medications (Regardless of Route)</i> • <i>Administering Oral Medications: Tablet or Capsule</i> • <i>Administering Oral Medications: Sublingual</i> • <i>Administering Oral Medications: Buccal</i> <p><i>Administering Oral Medications: Liquid Medications</i></p>	<p><i>Complete COVID Acknowledgment</i></p>	
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1/20/22	<p>Read chapters prior to class.</p> <p>Chapter 4 Chapter 5 Chapter 7</p> <p>Fundamentals of Nursing Care: Chapter 35</p>	<p>EXAM 1</p> <p>Review household measurements on conversion sheet</p> <p>Review dosage calculation problems</p> <p>Review Drug card instructions</p> <p>Ch 4 Regulations Ch 5 Prescriptions and Labels Ch 7 Measurement Systems</p> <p>Chapter 35: Fundamentals of Nursing Care: Researching and Preparing Medications</p> <p><u>SKILLS:</u> <u>CHECKOFFS:</u></p> <p>p. 2 Universal Steps for Medication Administration p.3 Universal Ending Steps for All Skills/Procedures p.4 Administering Oral Medications</p> <p>Calculation Review 1 1600-1630</p>	<p>Review calculation problems daily.</p> <p>ATI ASSIGNMENTS required prior to EXAM 2:</p> <p>ATI: Dosage Calculation and Safe Medication Administration 3.0</p> <p>1.Oral Medications</p> <p>2.Dosages by Weight</p> <p>3.Pediatric Medications</p> <p>4.Powdered medications</p> <p>ATI Skills Module 3.0:</p> <p>5.Oral and topical medication administration</p> <p>ATI: Video Case Studies PN 2.0:</p> <p>6.Adverse Reactions to Medications</p> <p>Medications:</p> <p>7. Chlorpromazine 8. Lisinopril 9. Phenezine</p>	Course 1-6 Core A,B,C
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<p>01/27/22</p>	<p>Read chapters prior to class.</p> <p>Chapter 8 Chapter 9</p> <p>Fundamentals of Nursing Care: Chapter 36: Administering Oral, Topical, and Mucosal Medications Pages 796-802 and 806-810</p> <p>RECOMMENDED READING: <i>ATI: PN Pharmacology for Nursing: Chapter 3</i></p> <p><i>ATI: PN Fundamentals for Nursing: Chapter 48</i></p>	<p>EXAM 2</p> <p>Ch 8 Dosage Calculations Ch 9 Enteral Medications and Administration</p> <p>Fundamentals of Nursing Care: Chapter 36: Administering Oral, Topical, and Mucosal Medications Pages 796-802 and 806-810</p> <p>In Class: Case Study: Medication Administration and the Nursing Process of Drug Therapy: Pediatric Drug Dosages</p> <p><u>SKILLS:</u></p> <p>p. 12 Recapping needles using one-handed technique</p> <p>p. 13 Reconstituting and withdrawing medication from a vial</p> <p>p. 18 Setting up and priming primary solution</p> <p>p. 22 Adding medications to primary IV solution</p> <p><i>Davis's Nursing Skills Videos for LPN/LVN:</i></p> <ul style="list-style-type: none"> • <i>Drawing up Medication from Vials</i> • <i>Mixing Medication from Two Vials</i> • <i>Setting up and using volume control pumps</i> • <i>Using a Volume control administration set</i> 	<p>Review calculation problems daily.</p> <p>ATI ASSIGNMENTS required prior to EXAM 3:</p> <p>ATI: Dosage Calculation and Safe Medication Administration 3.0</p> <p>1. <i>Injectable Medications</i></p> <p>2. <i>Parenteral (IV) medications</i></p> <p>ATI Skills Module 3.0:</p> <p>3. <i>Injectable Medication Administration</i></p> <p>4. <i>Intravenous Medication Administration</i></p> <p>5. <i>IV therapy and peripheral access</i></p> <p>ATI: Video Case Studies PN 2.0:</p> <p>6. <i>Look and Sound Alike Medications</i></p> <p>Medications:</p> <p>7. <i>Verapamil</i> 8. <i>Risperidone</i> 9. <i>Enalapril</i></p>	<p>Course 1-6 Core A,B,C</p>
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01/22/22 Continued		Calculation Review 2: after lunch Calculation Review 3: (Mock Exam) 1600-1630		
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<p>2/3/22</p>	<p>Read chapters prior to class.</p> <p>Chapter 10</p> <p>Fundamentals of Nursing Care: Chapter 37: Administering Intradermal, Subcutaneous, and Intramuscular Injections</p> <p>Fundamentals of Nursing Care: Chapter 38: Intravenous Therapy</p> <p>RECOMMENDED READING: <i>ATI: PN Pharmacology for Nursing: Chapter 4</i></p> <p><i>ATI: PN Fundamentals for Nursing: Chapter 49</i></p>	<p>Calculation Exam Attempt 1: 0800 Review at 1600</p> <p>EXAM 3: 0900</p> <p>C 10 Parenteral Medications and Administration</p> <p>Fundamentals of Nursing Care: Chapter 37: Administering Intradermal, Subcutaneous, and Intramuscular Injections</p> <p>Fundamentals of Nursing Care: Chapter 38: Intravenous Therapy</p> <p><u>SKILLS:</u> Hands On Lab Time: Bring an Orange to class</p> <p>p. 8 Administering ophthalmic medication</p> <p>p. 9 Administering otic medications</p> <p>p. 14 Withdrawing medication from an ampule</p> <p>p. 15 Administering an intradermal injection</p> <p>p. 16 Administering a subcutaneous injection</p> <p>p. 17 Administering an intramuscular injection</p> <p>Davis's Nursing Skills Videos for LPN/LVN:</p> <ul style="list-style-type: none"> • <i>Administering Ophthalmic Medications</i> • <i>Administering Otic Medication</i> • <i>Drawing up Medication from</i> 	<p>Review calculation problems daily.</p> <p>ATI ASSIGNMENTS required prior to EXAM 4:</p> <p>ATI Pharmacology Made Easy 4.0:</p> <p>1. Infection</p> <p>2. The Immune System</p> <p>ATI: Video Case Studies PN 2.0:</p> <p>3. Medication Interactions</p> <p>Medications:</p> <p>4. Morphine</p> <p>5. Tobramycin</p> <p>6. Simvastatin</p>	<p>Course 1-6 Core A,B,C</p>
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<p>2/3/22 continued</p>		<p><i>Ampules</i></p> <ul style="list-style-type: none">• <i>Mixing medications from one Ampule and one vial</i>• <i>Administering Intradermal Medication</i>• <i>Administering Subcutaneous Medication</i>• <i>Locating the Ventrogluteal site</i>• <i>Locating the Deltoid site</i>• <i>Locating the Vastus Lateralis Site</i>• <i>Intramuscular Injection: Traditional Method</i>• <i>Intramuscular Injections: Z-Track Method</i>		
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<p>2/10/22</p>	<p>Read chapters prior to class.</p> <p>Chapter 16</p> <p>Chapter 17</p> <p>RECOMMENDED READING: <i>ATI: PN Pharmacology for Nursing:</i> Chapters 18-22 Chapters 36-42</p>	<p>Calculation Exam Attempt 2: 0800 Review at 1600</p> <p>EXAM 4: 0900</p> <p>C 16 Cardiovascular System Medications</p> <p>C 17 Immunological System Medications</p> <p>In Class: Case Studies: Azithromycin and pneumonia Hypertension medications Drugs Affecting the Hematopoietic and Immune Systems: clopidogrel Drugs Therapy for Dylipidemia: pravastatin Drus Therapy for CHD: Nitroglycerin Drug Therapy for Heart Failure: Furosemide, spironolactone, metopitolol Inflammation, Infections, and the Use of Antimicrobial Agents: amoxicillin Drug Therapy with Beta-Lactam Antibacterial Agents Drug Therapy with Aminoglycosides and Fluoroquinolones Drug Therapy for TB and Mycobacterium avium Complex Disease: IERP Drug Therapy for Parastitic Infections: metronidazole</p> <p><u>SKILLS:</u> p. 19 initiating peripheral venipuncture p. 21 Discontinuing an IV infusion or PRN Lock p. 23 Adding a new bag of IV solution to existing IV line</p>	<p>Review calculation problems daily.</p> <p>ATI ASSIGNMENTS required prior to EXAM 5:</p> <p>ATI Pharmacology Made Easy 4.0: 1.Hematologic System</p> <p>2.Cardiovascular System</p> <p>ATI: Dosage Calculation and Safe Medication Administration 3.0 3.Critical Care Medications</p> <p>ATI: Video Case Studies PN 2.0: 4.Pharmacology Across the Lifespan</p> <p>Medications: 5. Gentamicin 6. Amphotericin B 7. Ethinyl Estradiol/Norethin drone</p>	<p>Course 1-6 Core A,B,C</p>
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2/10/22 continued		<p>p. 24 Administering IV piggyback medication</p> <p>p. 25 Administering IV medication via prn lock or IV line</p> <p><i>Davis's Nursing Skills Videos for LPN/LVN:</i></p> <ul style="list-style-type: none">• Initiating Peripheral Venipuncture• Peripheral IV Dressing• Discontinuing a Peripheral IV• Using a Piggyback Administration set with a Gravity Infusion• Using a Piggyback Administration set with an Infusion Pump• Administering IV Push Medications Through a Primary IV Line• Administering IV Push Medications through an Intermittent device when no extension tubing is attached to the access device• Administering IV Push Medications Through an Intermittent Device with an IV Extension Tubing		
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2/17/22	<p>Read chapters prior to class.</p> <p>Chapter 11 Chapter 15</p> <p>RECOMMENDED READING: <i>ATI: PN Pharmacology for Nursing: Chapters 34-35</i></p>	<p>Calculation Exam Attempt 3: 0800</p> <p>EXAM 5: 0900</p> <p>C 11 Integumentary System Medications</p> <p>C 15 Endocrine System Medications</p> <p>In Class: Case Studies: Levothyroxine HCTZ Insulin Drug Therapy for DM: insulin Drug Therapy for Hyperthyroidism and Hypothyroidism Drug Therapy for Pituitary and Hypothalamic Dysfunction: somatropin Drug Therapy for Disorders of the Skin: isotretinoin</p> <p><u>SKILLS:</u> Pg. 7 Administering Topical and Transdermal Medications</p> <p><i>Davis's Nursing Skills Videos for LPN/LVN:</i></p> <ul style="list-style-type: none"> Applying Transdermal Medications 	<p>Review calculation problems daily.</p> <p>ATI ASSIGNMENTS required prior to EXAM 6:</p> <p>ATI Pharmacology Made Easy 4.0: 1. Endocrine</p> <p>ATI: Video Case Studies PN 2.0: 2. Mixing Insulins</p> <p>Medications: 3. Glipizide 4. Dimenhydrinate</p>	Course 1-6 Core A,B,C
02/21/22		65% POINT		

<p>02/24/22</p>	<p>Read chapters prior to class.</p> <p>Chapter 12 Chapter 18 Chapter 19</p> <p>RECOMMENDED READING: <i>ATI: PN Pharmacology for Nursing:</i> Chapters 16-17 Chapters 24-25 Chapters 28-33</p>	<p>EXAM 6</p> <p>C 12 Musculoskeletal System Medications C 18 Pulmonary System Medications C 19 Gastrointestinal System Medications</p> <p>In Class: Case Studies: Asthma Meds GERD Meds GI Meds Drug Therapy to Decrease Pain, Fever, an Inflammation: celecoxib Drug Therapy for Asthma and Bronchoconstriction: albuterol, beclomethasone Drug Therapy for Constipation and Elimination Problems: polyethylene glycol Drug Therapy for Diarrhea: loperamide</p> <p><u>SKILLS:</u> Pg. 5 Administering medications through an enteral tube Pg. 6 Administering rectal suppositories Pg. 11 Administering inhaled medications</p> <p><i>Davis's Nursing Skills Videos for LPN/LVN:</i></p> <ul style="list-style-type: none"> • <i>Administering Oral Medications: Nasoenteric Tube</i> • <i>Inserting a Rectal Suppository</i> • <i>Administering Metered Dose Inhaler (MDI) Medication</i> • <i>Administering Nasal</i> 	<p>Review calculation problems daily.</p> <p>ATI ASSIGNMENTS required prior to EXAM 7:</p> <p>ATI Pharmacology Made Easy 4.0: 1. Musculoskeletal System</p> <p>2. Respiratory System</p> <p>3. Gastrointestinal System</p> <p>ATI: Video Case Studies PN 2.0: 4. Metered Dose Inhalers</p> <p>Medications: 5. Cefotetan 6. Amoxicillin 7. Omeprazole</p>	<p>Course 1-6 Core A,B,C</p>
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		<i>Medications</i>		
03/03/22		NO CLASS : Staff Development		
03/10/22	<p>Read chapters prior to class.</p> <p>Chapter 13 Chapter 20 Chapter 21</p> <p>RECOMMENDED READING: <i>ATI: PN Pharmacology for Nursing:</i> Chapters 6-15 Chapter 27 Chapter 26 Chapter 43</p>	<p>EXAM 7</p> <p>C 13 Nervous System Medications C 20 Reproductive and Urinary System Medications C 21 Vitamins, Minerals, Herbs, and Complementary and Alternative Medicine</p> <p>In Class: Case Studies: Pharmacology and the Care of Adults and Geriatric Patients, Amitriptylline Drug Therapy for Seizure Disorders and Spasticity: lamotrigine, levetiracetam Drug Therapy for Anxiety and Insomnia: flurazepam Drug Therapy for Depression and Mood Stabilization: fluoxetine Drug Therapy for ADHD and Narcolepsy: methylphenidate Drug Therapy for Fluid Volume Excess: HCTZ</p> <p><u>SKILLS:</u> p. 10 Administering Vaginal Medications p. 19 Initiating peripheral venipuncture</p>	<p>Review calculation problems daily.</p> <p>ATI ASSIGNMENTS required prior to EXAM 8:</p> <p>ATI Pharmacology Made Easy 4.0: 1.Neurologic System Part 1</p> <p>2.Neurologic System Part 2</p> <p>3.Pain and Inflammation</p> <p>4.Reproductive and Genitourinary System</p> <p>ATI: Video Case Studies PN 2.0: 5.Polypharmacy</p> <p>Medications: 6.Clozapine 7.Phenytoin 8. Oxycodone</p>	Course 1-6 Core A,B,C

03/16/22		EXAM 8 Open lab for practice	ATI ASSIGNMENTS required prior to FINAL EXAM: ATI Learning System: Practice Assessment: <i>PN Pharmacology Online Practice 2020 A & B.</i>	Course 1-6 Core A,B,C
03/17/22	Practical Nursing Program Skills Book	Cumulative FINAL EXAM over all content covered in the course. Then... Final Lab Skill Check Offs Refer to skill check off booklet for individual checkoffs.		

COMPETENCY AREAS

1. Systems of Measurement
2. Medication Calculations
3. Resource Materials Usage
4. Fundamental Pharmacology
5. Client Education
6. Medication Administration(Simulated Clinical Environment)

GENERAL CORE EDUCATIONAL COMPETENCIES

- A. The ability to utilize standard written English.
- B. The ability to solve practical mathematical problems.
- C. The ability to read, analyze, and interpret information.

DISCLAIMER STATEMENTS

Instructor reserves the right to change the syllabus and/or lesson plan as necessary. The official copy of the syllabus will be given to the student during face to face class time the first day of the semester. The syllabus displayed in advance of the semester in a location other than the course you are enrolled in is for planning purposes only.

Southeastern Technical College Practical Nursing Medication Template Rubric

Performance Criteria	A (10 Points)	B (7 Points)	C (5 Points)	D (3 Points)	F (0 points)
1. Medication Template Header	Template header including Student Name, Medication Name (3 generic names if template is for a drug class), and Category Class is complete, professional, and neat.	Template header is nearly complete with the exception of one area.	Template header is partially complete with the exception of two areas.	Template header is barely complete with the exception of three or more areas.	Not Done
2. Expected Pharmacological Action	Expected Pharmacological Action is complete and correct.	N/A	N/A	Expected Pharmacological Action is incomplete OR contains incorrect information.	Not Done
3. Therapeutic Use	Therapeutic Use is complete, correct, and is related to the content being covered.	Therapeutic Use is related to the content area and has correct data but is not complete.	N/A	Therapeutic Use does not relate to the content being covered or contains incorrect information.	Not Done
4. Complications	Complications contain 4 points with at least 1 complication related to the current content, and are prioritized.	Complications contain 3 points with at least 1 complication related to the current content, and are prioritized.	Complications contain 2 points with at least 1 complication related to the current content and are prioritized.	Complications contain 1 point, does not contain at least 1 complication related to the current content, or complications are not prioritized.	Not done
5. Contraindications/Precautions	Contraindications/Precautions contain 4 points with at least 1 complication related to the current content, and are prioritized.	Contraindications/Precautions contain 3 points with at least 1 complication related to the current content, and are prioritized.	Contraindications/Precautions contain 2 points with at least 1 complication related to the current content, and are prioritized.	Contra-Indications/Precautions contain 1 point, does not contain at least 1	Not Done

				complication related to the current content, or points are not prioritized.	
6. Interactions	Interactions contain 4 points with at least 1 complication related to the current content, and are prioritized.	Interactions contain 3 points with at least 1 complication related to the current content, and are prioritized.	Interactions contain 2 points with at least 1 complication related to the current content, and are prioritized.	Interactions contain 1 point, does not contain at least 1 interaction related to the current content, or points are not prioritized.	Not Done
7. Nursing Interventions	Nursing Interventions contain 4 points with at least 1 complication related to the current content, and are prioritized.	Nursing Interventions contain 3 points with at least 1 complication related to the current content, and are prioritized.	Nursing Interventions contain 2 points with at least 1 complication related to the current content, and are prioritized.	Nursing Interventions contain 1 point, does not contain at least 1 interaction related to the current content, or points are not prioritized.	Not Done
8. Client Education	Client Education contain 4 points with at least 1 complication related to the current content, and are prioritized.	Client Education contain 3 points with at least 1 complication related to the current content, and are prioritized.	Client Education contain 2 points with at least 1 complication related to the current content, and are prioritized.	Client Education contain 1 point, does not contain at least 1 interaction related to the current content, or points are not prioritized	Not Done
9. Medication Administration	Medication Administration contains all routes that the medication may be administered.	Medication Administration contains routes that the medication may be administered but is missing one route.	Medication Administration contains routes that the medication may be administered but is missing two routes.	Medication Administration contains routes that the medication may be administered but is missing three or more routes.	Not Done

10. Evaluation of Medication Effectiveness	Evaluation of Medication Effectiveness is complete and is related to the therapeutic use for the content being covered.	Evaluation of Medication Effectiveness is complete but is not related to the therapeutic use for the content being covered.	N/A	Evaluation of Medication Effectiveness is incomplete and is not related to the therapeutic use for the content being covered.	Not Done
Medication Templates not submitted by deadline may result in a grade of zero. Medication Templates not handwritten may not be accepted and may result in a grade of zero.					