



PNSG 2010 COURSE SYLLABUS FALL Semester 2015

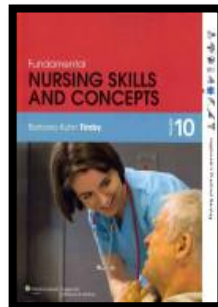
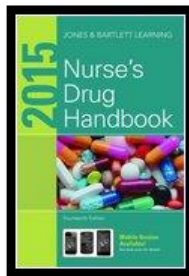
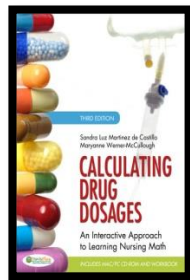
Semester: FALL 2015
Course Title: Intro to Pharmacology and Calculations
Course Number: PNSG 2010
Credit Hours/ Minutes: 2/3000
Class Location: Gillis Building 714
Class Meets: Mon. thru Thurs. from 1:30pm to 3:00pm
CRN: 20250

Instructor: Angie Headley, MSN, RN
Office Hours: M-R: 7am-9am; 3:30pm-5:00pm
Office Location: Gillis Building
Email Address: aheadley@southeasterntech.edu
Phone: 478-289-2249
Fax Number:
Tutoring Hours: During office hours

REQUIRED TEXT:

- (1). PN Pharmacology for Nursing (ATI Text)
- (2). Calculating Drug Dosages (Student Workbook) Castillo & Werner-McCullough
- (3). Fundamental Nursing Skills and Concepts, Text and Workbook, 10th edition, Lippincott
- (4). Nurse's Drug Handbook (2015) Jones & Bartlett (ATI Text)

All previous texts for reference - ATI testing web service



REQUIRED SUPPLIES & SOFTWARE:

Ear phones (for ATI Skills Modules)
Calculator
Pencils with erasers

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

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: STC 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.
4. The ability to utilize basic computer skills.

All students pursuing a degree, a diploma, or a Technical Certificate of Credit with a General Education component will be required to pass the General Education Competency Exams prior to graduation.

STUDENT REQUIREMENTS: Students are expected to complete all exams and daily assignments. **A unit exam average of 70% or above for the unit exams must be obtained in order to take the final exam.** A course grade of 70% must be obtained in order to advance into future nursing courses.

No assignment opportunities will be given for extra credit. Any test grade will be entered as is to the nearest 10th. No scores will be rounded (up or down). This rule applies to every grade issued during this semester.

Power points for each chapter are available on the student M:drive. The student drive can be accessed by going to the STC website and logging into Remote Lab Access.

Remediation Procedure:

Failure to pass any regular examination with a minimum grade of 70 or above will result in mandatory remediation of the material covered in the exam. Remediation assignments and sessions times are non-negotiable. All remediation assignments must be completed before the student will be allowed to take the final exam. During the designated remediation session, the student will write the Rationale for **EACH** incorrect question missed on any **failed** exam. **Below are two examples of Remediation Rationale Question Research:**

1. Rh incompatibility occurs in which of the following situations:
 - a. Rh-negative mother, Rh-positive fetus
 - b. Rh-positive mother, Rh-negative fetus
 - c. Rh-negative mother, Rh-negative fetus
 - d. Rh-positive mother, Rh-positive fetus

RATIONALE: (A) is correct. Rh incompatibility can only occur if the mother is Rh-negative and the fetus is Rh-positive. Ch. 5, "Nursing Care of Women with Complications During Pregnancy," p. 96.

2. The nurse teaches a woman who is 8 weeks pregnant about how rubella can affect the developing fetus. The nurse realizes the woman understands the information when she says that rubella during pregnancy can result in:
 - a. Facial abnormalities
 - b. Mental retardation
 - c. Liver failure
 - d. Limb deformities

RATIONALE: (B) is correct. Rubella can have devastating effects on the developing fetus. Some effects of rubella on the embryo/fetus include: microcephaly, mental retardation, cardiac defects, cataracts, and deafness. Ch. 5, "Nursing Care of Women with Complications During Pregnancy," p. 104.

NCLEX-PN PREPARATION:

Prior to graduation from the STC PN program, the student is required to pass the ATI PN Comprehensive Predictor Exit Exam with a minimum 90% predicted probability of passing NCLEX. This is a requirement for graduation and not an option. The student will have three chances to achieve this. If the student does not meet the required percentage on the first try, the student may retake the exam and pay another testing fee. On the second try, if the student does not achieve the required percentage then the student will remediate with an instructor in the deficient content areas prior to retaking the exam for the third try. If on the third try the percentage is not achieved, the student must retake the nursing courses which include the deficient content material.

STC ATTENDANCE POLICY: It is essential that educational programs maintain requirements and standards necessary for successful employment of its graduates in business and industry. In view of the intensive nature of the educational programs, it is necessary for every student to be present and on time every day for all classes.

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. All 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 as noted on each syllabus will receive a "W" for the course if removed from the course on or before the 65% portion of the semester (see STC's calendar on our website for the actual date of the 65% point). After the 65% portion of the semester, the student has earned the right to a letter grade and will receive a grade for the course. Tardy means arriving after the scheduled time for instruction to begin. Early departure means leaving before the end of the scheduled time.

Three (3) tardies or early departures equal one (1) absence for the course involved. A tardy will be issued if a student has missed less than 20% of instructional class time. An automatic absence will be issued if the student misses greater than 20% of instructional class time. This averages out to 10 minutes per hour. For example, in this class which meets from 1:40-3:10, a student will be counted tardy if he/she arrives between 1:41 and 2:00. After 2:00, the student will be counted absent.

TRADITIONAL ATTENDANCE ADDENDUM: For this class, which meets as described above for 41 days, the maximum number of days a student may miss is 4 days during the scheduled class time. Students missing more than 4 days will be dropped for exceeding the attendance policy.

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.

SPECIAL NEEDS: Students with documented special needs may be provided with an individualized Instructional Plan with specifications for scheduled instructional time. It is the student's responsibility to inform the Special Needs Specialist as students and instructors are required to have documented evidence prior to receiving or allowing special accommodations. See the STC Catalog and Student Handbook, Student Affairs section for further information regarding special needs.

SPECIAL NEEDS ADDENDUM: Students with disabilities who believe that they may need accommodations in this class based on the impact of a disability are encouraged to contact Jan Brantley, Room 1208 Swainsboro Campus, 478-289-2274, or Helen Thomas, Room 108 Vidalia Campus, 912-538-3126, to coordinate reasonable accommodations.

MAKEUP GUIDELINES (Tests, quizzes, homework, projects, 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 re-take 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 test 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.

ACADEMIC DISHONESTY POLICY: The STC Academic Dishonesty Policy states *All forms of academic dishonesty, including but not limited to cheating on tests, plagiarism, collusion, and falsification of information, will call for discipline.* The policy can also be found in the *STC Catalog and Student Handbook.*

Procedure for Academic Misconduct

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

--First Offense--

Student will be assigned a grade of "0" for the test 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.

--Second Offense--

Student is given a grade of "WF" 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.

--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: Southeastern Technical College does not discriminate on the basis of race, color, creed, national or ethnic origin, gender, religion, disability, age, disabled veteran, veteran of Vietnam Era or citizenship status, (except in those special circumstances permitted or mandated by law). This school is in compliance with Title VI of the Civil Rights Act of 1964, which prohibits discrimination on the basis of race, color, or national origin; with the provisions of Title IX of the Educational Amendments of 1972, which prohibits discrimination on the basis of gender; with the provisions of Section 504 of the Rehabilitation Act of 1973, which prohibits discrimination on the basis of handicap; and with the American with Disabilities Act (ADA).

ACCESS TO TECHNOLOGY: For information regarding Angel, the Information Delivery System (IDS), Student Owl Mail, and BannerWeb, please see the IT Department link on STC's website at <http://www.southeasterntech.edu>.

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 SCALE:

- A: 90-100
- B: 80-89
- C: 70-79
- D: 60-69

Unit Exams	65%
Final Exam	30%
ATI Component	5%
Lab skills	pass/fail

Each student's final course grade will be determined as follows:

Unit exam grade x 0.70 = _____

Final exam grade x 0.25 = + _____

ATI component x 0.05 = + _____

Numerical course grade = _____

Course Number: PNSG 2010 INTRODUCTION TO PHARMACOLOGY AND CLINICAL CALCULATIONS

Fall SEMESTER 2015 Lesson Schedule

**** Schedule may change at instructors discretion

Date	Chapter	Content	Assignments/Tests	*Competency Area
Week 1 Monday 8/17/15		Orientation to class Workbook/CD ATI resources Pharmacology 3.0		Course 1-6 Core a-d
Tuesday 8/18/15		Basic equivalents Systems of measurement	Math Homework.	Course 1-6 Core a-d
Wednesday 8/19/15		Converting between systems	Read relevant chapters and do end of chapter exercises. Math Homework.	Course 1-6 Core a-d
Thursday 8/20/15		Converting between systems	Read chapters 1-2-5 for class discussion and do end of chapter exercises. Math Homework.	Course 1-6 Core a-d
Week 2 Monday 8/24/15	CH 1	Unit 1 Pharmacological principles Routes of Administration	Read relevant chapters and do end of chapter exercises. Math Homework. ATI: Pharmacology 3.0 Unit 1	Course 1-6 Core a-d
Tuesday 8/25/15	CH 5	Adverse effects Interactions contraindications	Read relevant chapters and do end of chapter exercises. Math Homework.	Course 1-6 Core a-d
Wednesday 8/26/15		Test # 1 Basic equivalents- Systems of measurement – Unit 1	Read relevant chapters and do end of chapter exercises. Math Homework.	Course 1-6 Core a-d
Thursday 8/27/15	CH 6 CH 7	Unit 2 Meds affecting the Nervous System Anti-anxiety meds Antidepressants	Read relevant chapters and do end of chapter exercises. ATI: Pharmacology 3.0 Unit 2	Course 1-6 Core a-d
Week 3 Monday 8/31/15		Math-Oral dosages calculations	Read all chapters and do end of chapter exercises.	Course 1-6 Core a-d
Tuesday 9/1/15	CH 12	Chronic neurological disorders Math-Oral dosages calculations	Read relevant chapters and do end of chapter exercises. Math Homework.	Course 1-6 Core a-d
Wednesday 9/2/15	CH 14 CH 15	Miscellaneous Neurological drugs Sedative/hypnotics Math -Oral dosages calculations	Read relevant chapters and do end of chapter exercises. Math Homework.	Course 1-6 Core a-d
Thursday 9/3/15		Test # 2 Oral dosage calculations – unit 2	Read relevant chapters and do end of chapter exercises. Math Homework.	Course 1-6 Core a-d
Week 4 Monday 9/7/15		Labor Day		Course 1-6 Core a-d
Tuesday		Unit 3	Read relevant chapters and do end of	Course 1-6

9/8/15	CH 16	Meds affecting the respiratory system Airflow disorders Oral dosages calculations	chapter exercises. Math Homework. ATI: Pharmacology 3.0 Unit 3	Core a-d
Wednesday 9/9/15	Ch 17	Upper respiratory disorders Math-Oral dosages calculations	Read relevant chapters and do end of chapter exercises. Math Homework.	Course 1-6 Core a-d
Thursday 9/10/15	CH 18 CH 19	Unit 4 Meds Affecting the Cardiovascular System Diuretics Hypertension meds	Read relevant chapters and do end of chapter exercises. Math Homework. ATI: Pharmacology 3.0 Unit 4	Course 1-6 Core a-d
Week 5 Monday 9/14/15	CH 20 CH 21	Cardiac Glycosides Angina and cholesterol meds	Read relevant chapters and do end of chapter exercises. Math Homework.	Course 1-6 Core a-d
Tuesday 9/15/15		Test # 3 Oral dosage calculations – units 3&4	Read relevant chapters and do end of chapter exercises. Math Homework.	Course 1-6 Core a-d
Wednesday 9/16/15	CH 22	Unit 5 Meds affecting the hematological system Anticoagulants Math -Injectable doses	Read relevant chapters and do end of chapter exercises. Math Homework. ATI: Pharmacology 3.0 Unit 5	Course 1-6 Core a-d
Thursday 9/17/15	CH 24	Unit 6 Meds affecting the GI system Peptic Ulcer Disease Math -Injectable doses	Read relevant chapters and do end of chapter exercises. Math Homework. ATI: Pharmacology 3.0 Unit 6	Course 1-6 Core a-d
Week 6 Monday 9/21/15	CH 25	Gastrointestinal disorders Math -Injectable doses	Read relevant chapters and do end of chapter exercises. Math Homework.	Course 1-6 Core a-d
Tuesday 9/22/15	CH 27	Unit 7 Meds affecting the Reproductive System Reproductive tract	Read relevant chapters and do end of chapter exercises. Math Homework. ATI: Pharmacology 3.0 Unit 7	Course 1-6 Core a-d
Wednesday 9/23/15		Math -Injectable doses	Math Homework.	Course 1-6 Core a-d
Thursday 9/24/15		Test #4 Calculating injectable doses – units 5,6,7	Read relevant chapters and do end of chapter exercises.	Course 1-6 Core a-d
Week 7 Monday 9/28/15	CH 28	Unit 8 Meds for joint and bone disorders Rheumatoid arthritis Math – mL/hr	Read relevant chapters and do end of chapter exercises. Math Homework. ATI: Pharmacology 3.0 Unit 8	Course 1-6 Core a-d
Tuesday 9/29/15	CH 30 CH 33	Unit 9 Meds for pain and inflammation Non- narcotic analgesics Miscellaneous pain meds Math – gtts/min	Read relevant chapters and do end of chapter exercises. Math Homework. ATI: Pharmacology 3.0 Unit 9	Course 1-6 Core a-d

Wednesday 9/30/15	CH 34	Unit 10 Meds affecting the Endocrine system Diabetes Math- gtts/min	ATI: Pharmacology 3.0 Unit 10	Course 1-6 Core a-d
Thursday 10/1/15	CH 34	Unit 10 Meds affecting the Endocrine system Diabetes Math- gtts/min	Read relevant chapters and do end of chapter exercises. Math Homework.	Course 1-6 Core a-d
Week 8 Monday 10/5/15	CH 34	Unit 10 Meds affecting the Endocrine system Diabetes Math- gtts/min	Read relevant chapters and do end of chapter exercises. Math Homework.	Course 1-6 Core a-d
Tuesday 10/6/15	CH 35 CH 36	Unit 10 Meds affecting the Endocrine system Thyroid disorders Unit 11 Meds affecting the immune system Vaccinations Math- gtts/min	Read relevant chapters and do end of chapter exercises. Math Homework.	Course 1-6 Core a-d
Wednesday 10/7/15		Test # 5 Insulin calculations -Flow rates (mL/hr – gtts/min)- Units 8-9-10-11	Read relevant chapters and do end of chapter exercises. Math Homework.	Course 1-6 Core a-d
Thursday 10/8/15	CH 38/39/40 41/42	Unit 12 Medications for infections Antibiotics Antifungals/antivirals	Read relevant chapters and do end of chapter exercises. Math Homework. ATI: Pharmacology 3.0 Unit 12	Course 1-6 Core a-d
Week 9 Monday 10/12/15	CH 41/42	Antifungals/antivirals	Read relevant chapters and do end of chapter exercises. Math Homework.	Course 1-6 Core a-d
Tuesday 10/13/15		Medication administration Peds calculations (based on wt)	Read relevant chapters and do end of chapter exercises. Math Homework. ATI SKILLS MODULES MEDICATION ADMINISTRATION 1-4	Course 1-6 Core a-d
Wednesday 10/14/15		Medication administration Peds calculations (based on wt)	Read relevant chapters and do end of chapter exercises. Math Homework. ATI SKILLS MODULES MEDICATION ADMINISTRATION 1-4	Course 1-6 Core a-d
Thursday 10/15/15		Medication administration Skills Lab	Read relevant chapters and do end of chapter exercises. Math Homework. ATI SKILLS MODULES MEDICATION ADMINISTRATION 1-4	Course 1-6 Core a-d
Week 10 Monday 10/19/15		Medication administration Skills Lab	Read relevant chapters and do end of chapter exercises. Math Homework. ATI SKILLS MODULES MEDICATION ADMINISTRATION 1-4	Course 1-6 Core a-d

Tuesday 10/20/15		Test # 6 Medication administration – peds calculations- unit 12	Read relevant chapters and do end of chapter exercises. Math Homework.	Course 1-6 Core a-d
Wednesday 10/21/15		Final Exam	Read relevant chapters and do end of chapter exercises. Math Homework.	Course 1-6 Core a-d

*** 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)

*** General Core Competency Areas:**

- (a) The ability to utilize standard written English.
- (b) The ability to solve practical math problems.
- (c) The ability to read, analyze, and interpret information.
- (d) The ability to utilize basic computer skills.

****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.*****