

**PHAR 1040 – Pharmacology**  
**COURSE SYLLABUS**  
**Fall Semester 2017**

**COURSE INFORMATION**

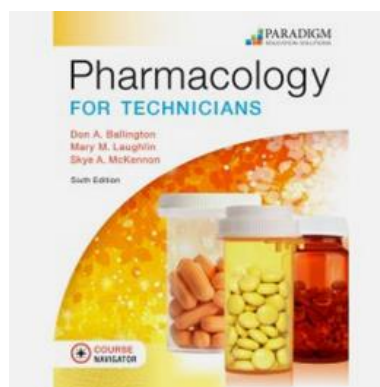
Credit Hours/Minutes: 4 Credit Hours/3000 Minutes  
Class Location: Room #737 — Gillis Building  
Class Meets: Tuesday/Thursday 11:00AM—12:45PM  
CRN: 20238

**INSTRUCTOR CONTACT INFORMATION**

Instructor Name: Matt Brown, CPhT  
Office Location: Room #722 — Gillis Building  
Office Hours: Tuesday/Thursday: 1:00—5:00; or By Appointment  
Email Address: mbrown@southeasterntech.edu  
Phone: 912-538-3192  
Fax Number: 912-538-3106  
Tutoring Hours (if applicable): By Appointment

**REQUIRED TEXT**

Pharmacology for Technicians, 6th Edition, By Ballington and Laughlin, Paradigm Publishing



**REQUIRED SUPPLIES & SOFTWARE**

Paper, Pens/Pencils, Folder, and Computer Access

## COURSE DESCRIPTION

The course introduces the students to principles and knowledge about all classifications of medication. Topics include: disease states and treatment modalities, pharmaceutical side effects and drug interactions, controlled substances, specific drugs, and drug addiction and abuse.

## MAJOR COURSE COMPETENCIES

1. Disease States and Treatment Modalities
2. Pharmaceutical Side Effects and Drug Interactions
3. Controlled Substances
4. Specific Drugs
5. Drug Addiction and Abuse

## PREREQUISITE(S):

Program Admission

## COURSE OUTLINE

### Disease States and Treatment Modalities

Order	Description	Learning Domain	Level of Learning
1	Define disease states	Cognitive	Knowledge
2	Explain how disease alters body function.	Cognitive	Comprehension
3	Describe modern treatment modalities (e.g., diet/exercise, medication, surgical intervention/radiation).	Cognitive	Knowledge
4	Discuss rationale for drug use.	Cognitive	Comprehension
5	Discuss risk benefit ratios.	Cognitive	Comprehension
6	Describe patient variables, including disease state effects.	Cognitive	Knowledge
7	Discuss systemic administration (e.g., oral, sublingual-buccal, inhalation, rectal, and parenteral.)	Cognitive	Comprehension
8	Discuss local administration to skin and mucous membranes, to ears and eyes, and irrigations.	Cognitive	Comprehension
9	Explain dose-response relationships.	Cognitive	Comprehension
10	Discuss absorption, biotransformation, and excretion.	Cognitive	Comprehension

### Pharmaceutical Side Effects and Drug Interactions

Order	Description	Learning Domain	Level of Learning
1	Distinguish between useful and harmful drug interactions, and describe how useful interactions are used in drug therapy.	Cognitive	Analysis
2	Discuss the types of drug interactions, including drug-drug, drug-food, and drug-lab test interactions.	Cognitive	Comprehension
3	Describe the F.D.A. reporting system for adverse drug RXNs, and how to initiate an adverse drug RXN report.	Cognitive	Knowledge
4	Define side effect, adverse drug reaction, and drug interaction.	Cognitive	Knowledge

\*\*\*Instructor reserves the right to change the syllabus and/or lesson plan as necessary\*\*\*

### Controlled Substances

Order	Description	Learning Domain	Level of Learning
1	Define the term controlled substance as described by both State and Federal law.	Cognitive	Knowledge
2	Describe the characteristics that differentiate each controlled substance schedule, I through V.	Cognitive	Knowledge
3	Give at least three examples of drugs in each schedule.	Cognitive	Knowledge
4	Describe the procedures and recordkeeping required by law for handling controlled substances, including any special regulations based on the ordering, receiving, storage, dispensing, and return/ destruction.	Cognitive	Knowledge

### Specific Drugs

Order	Description	Learning Domain	Level of Learning
1	List the generic name, the usual dose, and the classification/category of drug use for the most commonly prescribed trade name drugs.	Cognitive	Knowledge
2	Differentiate between prescription and nonprescription.	Cognitive	Analysis
3	Know the uses, mechanism of action, and side effects of the following therapeutic classifications and give examples of drugs in each: - Anti-infectives and drugs for the common cold - Narcotic pain relievers and other nervous system drugs - Respiratory, GI, renal, and cardiac drugs - Non-narcotic analgesics, muscle relaxants, hormones, and topicals - Chemotherapy, herbs, and miscellaneous drugs.	Cognitive	Knowledge

### Drug Addiction and Abuse

Order	Description	Learning Domain	Level of Learning
1	Define addiction, including differences between physical and psychological addiction.	Cognitive	Knowledge
2	Discuss the characteristics of an "addictive personality."	Cognitive	Comprehension
3	Describe the elements which contribute to the addictive potential of a therapeutic class of medication.	Cognitive	Knowledge
4	Link therapeutic class with the type of addiction (physical or psychological) most common with that class.	Cognitive	Knowledge
5	Describe the actions an addicted person may take to obtain the object of abuse, and what methods this person may use to hide their addiction.	Cognitive	Knowledge
6	Discuss abuse of medical, and non- medical substances, as well as abuse of activities.	Cognitive	Comprehension
7	Describe the treatment modalities used with addiction and substance abuse.	Cognitive	Knowledge

## 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.

## STUDENT REQUIREMENTS

Students are expected to complete all assigned material by the given due date. Students will also be required to complete hands-on demonstrations needed to function properly in the pharmacy field. Students are responsible for all policies and procedures listed within the student catalog / program handbook. Quizzes are subject to be given at any time over any assigned material. All quizzes given will be averaged together and that average will count as one exam grade

## ATTENDANCE GUIDELINES

Class attendance is a very important aspect of a student's success. Being absent from class prevents students from receiving the full benefit of a course and also interrupts the learning process. Southeastern Technical College considers both tardiness and leaving early as types of absenteeism. Responsibility for class attendance rests with the student. Regular and punctual attendance at all scheduled classes is required for student success. Students will be expected to complete all work required by the instructor as described in the individual course syllabus.

Instructors have the right to give unannounced quizzes/assignments. Students who miss an unannounced quiz or assignment will receive a grade of 0. Students who stop attending class, but do not formally withdraw, may receive a grade of F and face financial aid repercussions in upcoming semesters.

Instructors are responsible for determining whether missed work may be made up and the content and dates for makeup work is at the discretion of the instructor.

Students will not be withdrawn by an instructor for attendance; however, all instructors will keep records of graded assignments and student participation in course activities. The completion dates of these activities will be used to determine a student's last date of attendance in the event a student withdraws, stops attending, or receives an F in a course.

## SPECIAL NEEDS

Students with disabilities who believe that they may need accommodations in this class based on the impact of a disability are encouraged to contact Helen Thomas, 912-538-3126, [hthomas@southeasterntech.edu](mailto:hthomas@southeasterntech.edu), to coordinate reasonable accommodations.

## 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 advise me and make appropriate arrangements with Helen Thomas, 912-538-3126, [hthomas@southeasterntech.edu](mailto:hthomas@southeasterntech.edu).

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## WITHDRAWAL PROCEDURE

Students wishing to officially withdraw from a course(s) or all courses after the drop/add period and prior to the 65% portion of the semester (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" is assigned when the student completes the withdrawal form from the course.

Students who are dropped from courses due to attendance (see your course syllabus for attendance policy) after drop/add until the 65% point of the semester will receive a "W" for the course. Abandoning a course(s) instead of following official withdrawal procedures may result in a grade of 'F' being assigned.

After the 65% portion of the semester, the student will receive a grade for the course. (Please note: A zero will be given for all missed assignments.)

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. All grades, including grades 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.

## MAKEUP GUIDELINES (TESTS, QUIZZES, HOMEWORK, PROJECTS, ETC...)

Exams missed for any reason will be made up at the end of the semester on a date to be scheduled by the instructor. Any quizzes missed due to a student absence generally will not be allowed to be made up. If a lab assignment is missed, the student is completely responsible for arranging make-up lab time at the instructor's convenience.

The instructor may allow students to make up any assignments that were missed due to absence if the instructor is notified in advance of the absence, or if any unforeseen circumstances arise that cause the student to be absent from class. These situations will be dealt with on a case by case basis. The student is responsible for notifying the instructor of any absence, as well as supplying any available documentation concerning the absence in order for the instructor to consider allowing the assignments to be made up.

## 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:

### 1. 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.

### 2. 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.

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### 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 third 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

The Technical College System of Georgia and its constituent Technical Colleges do not discriminate on the basis of race, color, creed, national or ethnic origin, sex, religion, disability, age, political affiliation or belief, genetic information, disabled veteran, veteran of the Vietnam Era, spouse of military member 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).

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

<b>ADA/Section 504 - Equity- Title IX (Students) - OCR Compliance Officer</b>	<b>Title VI - Title IX (Employees) - EEOC Officer</b>
Helen Thomas, Special Needs Specialist Vidalia Campus 3001 East 1 <sup>st</sup> Street, Vidalia Office 108 Phone: 912-538-3126 <a href="mailto:hthomas@southeasterntech.edu">hthomas@southeasterntech.edu</a>	Blythe Wilcox, Director of Human Resources Vidalia Campus 3001 East 1 <sup>st</sup> Street, Vidalia Office 138B Phone: 912-538-3147 <a href="mailto:bwilcox@southeasterntech.edu">bwilcox@southeasterntech.edu</a>

### GRIEVANCE PROCEDURES

Grievance procedures can be found in the Catalog and Handbook located on STC'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 [STC website](#).

### 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

<b>Assessment/Assignment</b>	<b>Percentage</b>
Exam Average	40%
Quizzes	10%
Assignments	25%
Final Exam	25%

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## GRADING SCALE

Letter Grade	Range
A	90-100
B	80-89
C	70-79
D	60-69
F	0-59

# PHAR 1040 – Pharmacology

## Fall Semester 2017 Lesson Plan

Date	Chapter/Lesson	Content	Assignments & Exams Due Dates	Competency Area
<b>Week #1</b>				
8/15		Intro To Course / Syllabus / Textbooks	Read and Review: Chapter 1	
8/17	Chapter 1	Evolution of Medicinal Drugs	Chapter 1: PowerPoint Assignments: Chapter 1  Read and Review: Chapter 2 Workbook: Chapter 2	1–5 A; C
<b>Week #2</b>				
8/22	Chapter 2	Basic Concepts of Pharmacology	Chapter 2: PowerPoint Assignments: Chapters 1–2 Due  Read and Review: Chapter 3	1–5 A; C
8/24	Chapter 3	Dispensing Medications	Assignments: Chapter 3 Due Quiz Chapter 3: PowerPoint	1–5 A; C
<b>Week #3</b>				
8/29	Chapters 1–3  Chapter 4	Unit 1 Exam: Chapters 1–3  Antibiotics	Unit 1 Exam: Chapters 1–3  Chapter 4: PowerPoint Assignments: Chapter 4  Read and Review: Chapter 4	1–5 A; C
8/31	Chapters 4–5	Antibiotics  Therapy for Fungal and Viral Infections	Chapters 4–5: PowerPoint Assignments: Chapters 4–5 Due  Read and Review: Chapter 5	1–5 A; C

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Date	Chapter/Lesson	Content	Assignments & Exams Due Dates	Competency Area
<b>Week #4</b>				
9/5	Chapters 5—6	Therapy for Fungal and Viral Infections  Anesthetics and Narcotics	Quiz Chapters 5—6: PowerPoint Assignments: Chapter 6 Read and Review: Chapter 6	1—5 A; C
9/7	Chapter 6	Anesthetics and Narcotics	Chapter 6: PowerPoint Assignments: Chapter 6 Due  Read and Review: Chapter 7	1—5 A; C
<b>Week #5</b>				
9/12	Chapter 7	Psychiatric and Related Drugs	Quiz Chapter 7: PowerPoint Assignments: Chapter 7 Read and Review: Chapter 7	1—5 A; C
9/14	Chapter 7	Psychiatric and Related Drugs	Assignments: Chapter 7 Due Chapter 7: PowerPoint  Read and Review: Chapter 8	1—5 A; C
<b>Week #6</b>				
9/19	Chapter 8	Drugs for Central Nervous System Disorders	Quiz Chapter 8: PowerPoint Assignments: Chapter 8  Read and Review: Chapter 8	1—5 A; C
9/21	Chapters 8—9	Drugs for Central Nervous System Disorders  Respiratory Drugs	Chapters 8—9: PowerPoint Assignments: Chapter 8 Due Assignments: Chapter 9 Read and Review: Chapter 9	1—5 A; C
<b>Week #7</b>				
9/26	Chapter 9	Respiratory Drugs	Assignments: Chapter 9 Due  Quiz Chapter 9: PowerPoint	1—5 A; C

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<b>Date</b>	<b>Chapter/Lesson</b>	<b>Content</b>	<b>Assignments &amp; Exams Due Dates</b>	<b>Competency Area</b>
9/28	Chapters 4—9	Unit 2 Exam: Chapters 4—9	Unit 2 Exam: Chapters 4—9  Read and Review: Chapter 10	1—5 A; C
<b>Week #8</b>				
10/3	Chapter 10	Drugs for Gastrointestinal and Related Diseases	Chapter 10: PowerPoint Assignments: Chapter 10	1—5 A; C
10/5	Chapter 10	Drugs for Gastrointestinal and Related Diseases	Assignments: Chapter 10 Due Quiz Chapter 10: PowerPoint  Read and Review: Chapter 11	1—5 A; C
<b>Week #9</b>				
10/10	Chapter 11	Renal System Drugs	Chapter 11: PowerPoint Assignments: Chapter 11 Read and Review: Chapter 11	1—5 A; C
10/12	Chapters 11—12	Renal System Drugs  Drugs for Cardiovascular Diseases	Quiz Chapters 11—12: PowerPoint Assignments: Chapter 11 Due  Read and Review: Chapter 12	1—5 A; C
<b>Week #10</b>				
10/17	Chapter 12	Drugs for Cardiovascular Diseases	Chapter 12: PowerPoint Assignments: Chapter 12  Read and Review: Chapter 12	1—5 A; C
10/19	Chapters 12—13	Drugs for Cardiovascular Diseases  Drugs for Muscle and Joint Disease and Pain	Quiz Chapters 12—13: PowerPoint Assignments: Chapter 12 Due  Assignments: Chapter 13 Read and Review: Chapter 13	1—5 A; C

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Date	Chapter/Lesson	Content	Assignments & Exams Due Dates	Competency Area
<b>Week #11</b>				
10/24	Chapters 13—14	Drugs for Muscle and Joint Disease and Pain  Hormonal Disorders and Their Treatment	Quiz Chapters 13—14: PowerPoint Assignments: Chapter 13 Due Assignments: Chapter 14 Read and Review: Chapter 14	1—5 A; C
10/26	Chapter 14	Hormonal Disorders and Their Treatment	Chapter 14: PowerPoint Assignments: Chapter 14 Due Read and Review: Chapter 15	1—5 A; C
<b>Week #12</b>				
10/31	Chapters 14—15	Hormonal Disorders and Their Treatment  Topical, Ophthalmic, and Otic Medications	Quiz Chapters 14—15: PowerPoint Assignments: Chapter 15  Read and Review: Chapter 15	1—5 A; C
11/2	Chapter 15	Topical, Ophthalmic, and Otic Medications	Chapter 15: PowerPoint Assignments: Chapter 15 Read and Review: Chapter 15	1—5 A; C
<b>Week #13</b>				
11/7	Chapters 10—15	Unit 3 Exam: Chapters 10—15	Unit 3 Exam: Chapters 10—15  Read and Review: Chapter 16	1—5 A; C
11/9	Chapter 16	Recombinant Drugs and Chemotherapy	Chapter 16: PowerPoint Read and Review: Chapter 16	1—5 A; C
<b>Week #14</b>				
11/14	Chapter 16	Recombinant Drugs and Chemotherapy	Chapter 16: PowerPoint Assignments: Chapter 16 Read and Review: Chapter 17	1—5 A; C

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Date	Chapter/Lesson	Content	Assignments & Exams Due Dates	Competency Area
11/16	Chapters 16—17	Recombinant Drugs and Chemotherapy  Vitamins, OTC Supplements, Antidotes, and Miscellaneous Topics	Chapters 16—17: PowerPoint Assignments: Chapter 16 Due Assignments: Chapter 17 Read and Review: Chapter 17	1—5 A; C
<b>Week #15</b>				
11/21	Chapter 17	Vitamins, OTC Supplements, Antidotes, and Miscellaneous Topics	Quiz Chapter 17: PowerPoint Assignments: Chapter 17 Due Read and Review: Chapter 17	1—5 A; C
11/23	Holiday			
<b>Week #16</b>				
11/28	Chapters 16—17	Unit 4 Exam: Chapters 16—17	Unit 4 Exam: Chapters 16—17	1—5 A; C
11/30	Review	Review For Final Exam	Review For Final Exam	1—5 A; C
<b>Week #17</b>				
12/5	Final Exam	Comprehensive Final Exam	Final Exam	1—5 A; C

**Competency Areas: (will vary for each course/taken from state standards)**

1. Disease States and Treatment Modalities
2. Pharmaceutical Side Effects and Drug Interactions
3. Controlled Substances
4. Specific Drugs
5. Drug Addiction and Abuse

**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.

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## Southeastern Technical College Pharmacy Technology Diploma Program

I have read and understand the syllabus for PHAR 1040. I have also been given the opportunity to ask questions to clarify any requirements listed on the syllabi. By signing this agreement, I am acknowledging that I fully understand my requirements and grading criteria that I am responsible for. I agree to follow the guidelines and rules listed on the syllabi.

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Print Name

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Student Signature

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Date

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