



**DHYG 1206 Pharmacology and Pain Control  
COURSE SYLLABUS  
Spring Semester 2019**

**COURSE INFORMATION**

Credit Hours/Minutes: 3 Semester Credit Hours/2250 minutes  
Campus/Class Location: Vidalia/Health Sciences Annex C, Room #906  
Class Meets: Tuesdays 8:00-10:40am  
Course Reference Number (CRN): 40041

**INSTRUCTOR CONTACT INFORMATION**

Course Director: Lori DeFore, RDH, BS, BTh  
Email Address: [Lori DeFore \(ldefore@southeasterntech.edu\)](mailto:ldefore@southeasterntech.edu)  
Campus/Office Location: Vidalia/Health Sciences Annex C, Room #909  
Office Hours: Mondays: 7:30-8:00am; 3:40-5:30pm  
                  Tuesdays: 7:30-8:00am; 10:40-11:00am; 1:30-5:30pm  
                  Wednesdays: 7:30-8:00am; 12:30-1:00pm; 5:00-5:30pm  
                  Thursdays: 12:30-1:50pm  
Phone: 912-538-3251  
Fax Number: 912-538-3278

**SOUTHEASTERN TECHNICAL COLLEGE'S (STC) CATALOG AND HANDBOOK**

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

**REQUIRED TEXT**

1. Applied Pharmacology for The Dental Hygienist, 7<sup>th</sup> edition. Haveles. Mosby. 2016.
2. STC Dental Hygiene Program Clinic Manual

**REQUIRED SUPPLIES & SOFTWARE**

Notebook, pen, highlighter.

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

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## **COURSE DESCRIPTION**

This course introduces principles of basic pharmacology as they pertain to the practice of dentistry and dental hygiene. It emphasizes actions and reactions of medications commonly used in the dental office or taken by dental patients. Topics include: pharmaceutical referencing, legal and ethical considerations, drug effects, contraindications, drug related emergencies, dental related anesthesia, and pain control.

## **MAJOR COURSE COMPETENCIES (CC)**

1. Pharmaceutical Referencing
2. Legal and Ethical Considerations
3. Drug Effects
4. Contraindications
5. Drug Related Emergencies
6. Dental Related Anesthesia
7. Pain Control

## **PREREQUISITE(S)**

Program Admission

## **GENERAL EDUCATION CORE COMPETENCIES (GC)**

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 responsible for the policies and procedures in the Southeastern Technical College (STC) Catalog and Handbook, Dental Hygiene Program Handbook, and Dental Hygiene Clinic Manual. During an examination, the following procedures must be followed: All books and personal belongings must be placed at the back of the classroom. Students will be asked to rotate seats prior to the beginning of the test. Test proctor will personally examine each desk to ensure that no writing is present on desk. Computer monitors should be facing the front of the classroom during test. When a student completes the test, he/she may raise hand and turn paper in to proctor. Student must remain in seat until test time is complete to avoid distracting other students. Students who have completed testing should be as quiet as possible and avoid any activity that might make those students who are still testing feel pressured or rushed. Students may not go to the bathroom during the test session. Test proctor must observe students at all times and notify students when there are ten remaining minutes left of the total exam time. Test proctor should routinely walk around classroom and observe testing. Test proctor should refrain from grading papers, reading materials, or using computer during the test. Students caught with cheat sheets or cell phones will be considered cheating and a zero will be issued for the examination. The STC academic dishonesty policy will be enforced. Once the test begins, no talking is allowed. Once the test begins, tardy students may not enter the classroom.

Students are expected to exhibit professional behavior at all times. Each student must show respect and concern for fellow students and for the course instructors. Insubordination will not be tolerated, and disciplinary measures will be enacted. No cell phones or smart electronic devices are allowed to be turned on

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in the classroom, clinic, or locker area. If a student is observed in possession of his/her cell phone or smart electronic device during class, a critical incident will be issued. A student cannot use his/her cell phone or smart electronic device during class. There are no exceptions to this rule and do not ask. If you have a personal situation going on, please advise your instructor and give your family the clinic receptionist's phone number for emergency contact. You should not have your cell phone or smart electronic device in the class! Personal phone calls must be handled after class.

By completing the assignments below prior to class, students will become familiar with course material prior to classroom facilitation. As a result, higher-level learning will be fostered in the classroom.

1. Read the assigned chapter(s) and be prepared to actively participate in class discussions and activities.
2. Answer/complete all case study exercises in the chapter review section for each session, if applicable.
3. Know the definitions of chapter key terms.
4. Highlight National Board Exam material in relevant chapter(s) prior to class.
5. Complete any assignments or homework given by the course director.
6. Complete and know the learning objectives for each chapter.
7. View any videos applicable to dated lesson plan material.
8. Obtain materials from the course Materials Drive: M/Dental Hygiene/DHYG 1206. Prior to class, print any materials available to be used in this class for study and during lecture and/or lab.
9. Students are advised to check their e-mails regularly for any additional information that is related to the class or the Dental Hygiene Program.

#### **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. Students who stop attending class, but do not formally withdraw, may receive a grade of F (Failing 0-59) 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. Excused absences will be evaluated on a case-by-case basis by the program director. Examples of excused absences would be a car accident on the way to class or unexpected hospitalization of the student. Please do not plan a vacation or schedule a routine medical/dental appointment during the designated class times. Unexcused absences will not be made up and may lead to the student's failure of the course. Program director must be notified of any absences prior to scheduled class session.

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. Assignments 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. 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. **For this class, which meets 1 session per week for 15 weeks, the maximum number of sessions a student may miss for attendance purposes is 2 sessions during the semester.**

## **ADDITIONAL ATTENDANCE GUIDELINES FOR HEALTH SCIENCES**

Requirements for instructional hours within Health Science 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.

## **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.

**Swainsboro Campus:** Macy Gay [mgay@southeasterntech.edu](mailto:mgay@southeasterntech.edu), 478-289-2274, Building 1, Room 1208

**Vidalia Campus:** [Helen Thomas](mailto:hthomas@southeasterntech.edu) [hthomas@southeasterntech.edu](mailto:hthomas@southeasterntech.edu), 912-538-3126, Building A, Room 108

## **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.

**Swainsboro Campus:** Macy Gay [mgay@southeasterntech.edu](mailto:mgay@southeasterntech.edu), 478-289-2274, Building 1, Room 1208

**Vidalia Campus:** [Helen Thomas](mailto:hthomas@southeasterntech.edu) [hthomas@southeasterntech.edu](mailto:hthomas@southeasterntech.edu), 912-538-3126, Building A, Room 108

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" 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 after the 65% point will receive either a "WP" or "WF" for the semester.

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

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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**

Students are allowed to make up only one missed exam excluding the final examination. This is only if they have an excused absence approved by the instructor. The make up exam may be given in a different format than the original exam. A doctor's excuse and/or additional documentation will be requested. Ten points will be deducted from the test for taking the test late. All other missed exams/quizzes/class preparation assessments will result in a grade of zero "0". If you enter the classroom late, you will not be allowed to take the exam, and you will be issued a grade of zero "0" for the exam. PLEASE be on time! Projects are due on the date specified on the lesson plan at the start time of the class. Projects will not be accepted late for any reason!

Failure to complete homework assignments will result in one point being deducted from the final course grade for each assignment not completed by the deadline specified. Late or incomplete assignments will still need to be completed and turned in for instructor review and feedback. If you are going to be absent, you should deliver your assignment to your instructor prior to the deadline to ensure credit.

### **ACADEMIC DISHONESTY POLICY**

The Southeastern Technical College Academic Dishonesty Policy states that 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 Southeastern Technical College Catalog and 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" (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 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.

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## 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>American With Disabilities Act (ADA)/Section 504 - Equity- Title IX (Students) – Office of Civil Rights (OCR) Compliance Officer</b>	<b>Title VI - Title IX (Employees) – Equal Employment Opportunity Commission (EEOC) Officer</b>
Helen Thomas, Special Needs Specialist Vidalia Campus 3001 East 1 <sup>st</sup> Street, Vidalia Office 108 Phone: 912-538-3126 Email: <a href="mailto:hthomas@southeasterntech.edu">Helen Thomas</a> <a href="mailto:hthomas@southeasterntech.edu">hthomas@southeasterntech.edu</a>	Lanie Jonas, Director of Human Resources Vidalia Campus 3001 East 1 <sup>st</sup> Street, Vidalia Office 138B Phone: 912-538-3230 Email: <a href="mailto:ljonas@southeasterntech.edu">Lanie Jonas</a> <a href="mailto:ljonas@southeasterntech.edu">ljonas@southeasterntech.edu</a>

## 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 \(www.southeasterntech.edu\)](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.*

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## EVALUATION PROCEDURES

### Exams

1. Exam #1 covers Chapters 1-5
2. Exam #2 covers Chapters 6-11
3. Exam #3 covers Chapters 12-14
4. Exam #4 covers Chapters 15-20
5. Exam #5 covers Chapters 21-24
6. Exam #6 covers Chapters 25-27
7. Exam #7 is a Final Comprehensive Exam covering Chapters 1-27

### Exam and Homework Due Dates

All exam dates are noted in the course syllabus. No make-up exam will be allowed for the final examination. Failure to take the final examination on the specified date will result in a grade of zero. The final exam will include Chapters 1-27. A total of 100 points may be earned on each examination. Homework assignments are noted in the syllabus and due each lecture session at the beginning of class start time. Each assignment that is not completed in the specified timeframe will result in a one-point deduction from the final course grade.

### Class Preparation Assessment

A class preparation assessment and grade will be given at the beginning of class sessions as noted in the lesson plan. Each student shall randomly draw one question. The question will cover some topic or portion of the course material the student should have read and studied as noted in the syllabus lesson plan. If a student demonstrates prior class preparation by answering the question correctly, a session grade of one hundred (100) shall be recorded. If a student fails to demonstrate prior class preparation by answering the question incorrectly, a session grade of zero (0) will be recorded. The student will be allowed to remain in class, but shall be required to report to campus on Thursday of the same week at 10:00am and study the course material until 12:00 noon to ensure time has been spent studying, and that application and understanding of course material may be achieved.

## GRADING POLICY

Assessment/Assignment	Percentage
Examination 1 (Chapters 1-5)	10%
Examination 2 (Chapters 6-11)	10%
Examination 3 (Chapters 12-14)	10%
Examination 4 (Chapters 15-20)	10%
Examination 5 (Chapters 21-24)	10%
Examination 6 (Chapters 25-27)	10%
Examination 7 (Chapters 1-27) (Final)	20%
Class Preparation Assessments (1-8 averaged together)	20%

## CALCULATION OF FINAL COURSE GRADE

Evaluation Item	Grade	(X) %	Points
Examination 1		0.10	
Examination 2		0.10	
Examination 3		0.10	

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<b>Evaluation Item</b>	<b>Grade</b>	<b>(X) %</b>	<b>Points</b>
Examination 4		0.10	
Examination 5		0.10	
Examination 6		0.10	
Examination 7 (Final)		0.20	
Class Preparation Assessment 1			
Class Preparation Assessment 2			
Class Preparation Assessment 3			
Class Preparation Assessment 4			
Class Preparation Assessment 5			
Class Preparation Assessment 6			
Class Preparation Assessment 7			
Class Preparation Assessment 8			
Class Preparation Assessments (1-4 averaged together)		0.20	
<b>-Point Deductions for late/incomplete assignments</b>			
<b>Subtotal</b>			
<b>Final Course Grade</b>			

#### **GRADING SCALE**

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

#### **LIBRARY RESOURCES**

The link [Southeastern Technical College Library Resources](http://library.southeasterntech.edu/Resources.asp) (<http://library.southeasterntech.edu/Resources.asp>) will provide access to Galileo, Online Catalog, Net Library on campus, Net Library off campus, periodicals, and newspapers. In addition, you may seek additional assistance in person by visiting the librarian in the Medical Technology Building or the librarian in the main building.

#### **INSTRUCTIONAL DELIVERY METHODS**

The following methods will be utilized to facilitate learning in lecture sessions. Sessions may employ PowerPoint presentations with handouts, workbook activity sheets, homework assignments, multimedia presentations, group discussions, independent reading assignments, research activities, interactive websites, games, and group collaboration.

#### **DHYG 1206 PHARMACOLOGY LEARNING OBJECTIVES**

After studying the assigned chapter, students will be able to:



### **Chapter 1 Information, Sources, Regulatory Agencies, Drug Legislation and Prescription Writing**

1. Discuss the history of pharmacology and its relationship to the dental hygienist. (A,B,C,D)
2. List where detailed and updated information on medications can be found. (A,B,C,D)
3. Define the ways in which drugs are named and the significance of each. (A,B,C,D)
4. Define generic equivalence and how it is related to drug substitution. (A,B,C,D)
5. Describe the acts and agencies within the federal government designed to regulate drugs. (A,B,C,D)
6. Identify the four phases of clinical evaluation involved in drug approval and the five schedules of drugs. (A,B,C,D)
7. Discuss the history of drug legislation, including: list the five schedules of controlled substances; explain package inserts and black box warnings; differentiate between labeled and off-label uses; explain orphan drugs and drug recalls. (A,B,C,D)

### **Chapter 2 Drug Action and Handling**

1. Differentiate dose, potency, and efficacy in the context of the actions of drugs. (A,B,C,D)
2. Explain the pharmacologic effect of a drug. (A,B,C,D)
3. Discuss the major steps of pharmacokinetics: absorption, distribution, metabolism, and excretion. (A,B,C,D)
4. Explain how altering absorption, distribution, metabolism, and excretion can affect clinical pharmacokinetics. (A,B,C,D)
5. Explain how half-life relates to clinical pharmacokinetics. (A,B,C,D)
6. Provide example of factors that may alter the effect of a drug. (A,B,C,D)
7. Summarize the various routes of drug administration and the common dose forms used. (A,B,C,D)

### **Chapter 3 Adverse Reactions**

1. Define an adverse drug reaction and name five categories of reaction. (A,B,C,D)
2. Discuss the risk-to-benefit ratio of the use of a drug for therapeutic effect and its potential adverse reactions. (A,B,C,D)
3. Explain how the toxic effects of drugs are evaluated. (A,B,C,D)
4. Discuss the importance of recognizing adverse drug effects. (A,B,C,D)

### **Chapter 4 Autonomic Drugs**

1. Identify the major components and functional organization of the autonomic nervous system. (A,B,C,D)
2. Discuss the pharmacologic effects, adverse reactions, contraindications, and dental considerations of cholinergic agents which are part of the parasympathetic autonomic nervous system. (A,B,C,D)
3. Discuss the pharmacologic effects, adverse reactions, contraindications, and dental considerations of anticholinergic agents which are part of the parasympathetic autonomic nervous system. (A,B,C,D)
4. Discuss the major neurotransmitters in the sympathetic nervous system and the importance of receptors. (A,B,C,D)
5. Discuss the pharmacologic effects, adverse reactions, contraindications, and dental considerations of adrenergic agents and list several specific adrenergic agents. (A,B,C,D)
6. Explain the workings of adrenergic blocking agents and neuromuscular blocking agents. (A,B,C,D)

### **Chapter 5 Nonopioid (Nonnarcotic) Analgesics**

1. Describe pain and its purpose and main components. (A,B,C,D)

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2. Discuss the classification of analgesic agents and the chemistry, pharmacokinetics, pharmacologic effects, adverse reactions, toxicity, drug interactions, and uses of aspirin. (A,B,C,D)
3. Define the term nonsteroidal antiinflammatory drug and discuss the chemistry, pharmacokinetics, pharmacologic effects, adverse reactions, toxicity, drug interactions, uses, and several examples of these drugs. (A,B,C,D)
4. Discuss the properties, pharmacologic effects, adverse reactions, drug interactions, uses, and dosing of acetaminophen. (A,B,C,D)
5. Explain the disease known as gout and summarize the drugs used to treat it. (A,B,C,D)

### **Chapter 6 Opioid (Narcotic) Analgesics and Antagonists**

1. Explain the classification, mechanism of action, and pharmacokinetics of opioids. (A,B,C,D)
2. List and describe the pharmacologic effects and potential adverse reactions of opioids. (A,B,C,D)
3. Discuss the addiction potential of opioids, including treatment. (A,B,C,D)
4. Name and explain the analgesic actions of the most common opioid agonists. (A,B,C,D)
5. Discuss the actions of and provide examples of the mixed opioids. (A,B,C,D)
6. Summarize the mechanism of action and adverse reactions of tramadol. (A,B,C,D)
7. Apply the use of opioids to dentistry. (A,B,C,D)

### **Chapter 7 Antiinfective Agents**

1. Outline the history and basic principles of infection and its relevance to dentistry, including: define the terms pertinent to a discussion about infection; identify the factors that determine the likelihood of an infection; describe the importance of cultures and sensitivity in relation to infections; discuss the reasons an understanding of "resistance" is important with regard to infections. (A,B,C,D)
2. Summarize the principal indications for the use of antimicrobial agents. (A,B,C,D)
3. Name and describe the major adverse reactions and disadvantages associated with the use of antiinfective agents. (A,B,C,D)
4. Discuss penicillin, macrolides, tetracyclines, cephalosporins – their chemical makeup, properties, mechanisms of action, uses, and potential adverse reactions- and name several specific types of each. (A,B,C,D)
5. Name and describe two other types of antibiotics and antiinfectives, including their chemical makeup, properties. Mechanism of action, potential adverse reactions, and uses. (A,B,C,D)
6. Discuss the rationale for the use of antiinfective agents in dentistry. (A,B,C,D)
7. Discuss antimicrobial agents for nondental uses including their pharmacokinetics, mechanism of action, adverse reactions, and spectrum of use. (A,B,C,D)
8. Describe the drugs used to treat tuberculosis and the difficulties this disease presents. (A,B,C,D)
9. Discuss the use of topical antibiotics in dentistry. (A,B,C,D)
10. Summarize the concept and practice of antibiotic prophylaxis in dentistry. (A,B,C,D)

### **Chapter 8 Antifungal and Antiviral Agents**

1. Name several types of antifungal agents and discuss their indications in dentistry and potential adverse reactions. (A,B,C,D)
2. Discuss the use of antiviral agents in the treatment of herpes simplex. (A,B,C,D)
3. Describe the various drugs and drug combinations used to treat acquired immunodeficiency syndrome. (A,B,C,D)
4. Describe the various drugs used to treat chronic hepatitis. (A,B,C,D)

### **Chapter 9 Local Anesthetics**

1. Discuss the history and reasons for the use of local anesthetics in dentistry, including: list the properties an ideal anesthetic would possess; describe the importance of understanding the chemistry involved in local anesthetic agents. (A,B,C,D)
2. Explain the mechanism of action, pharmacokinetics, pharmacologic effects, and adverse reactions of local anesthetics. (A,B,C,D)
3. Describe the composition of each of the drugs used in local anesthetic solutions and summarize the factors involved in the choice of a local anesthetic. (A,B,C,D)
4. Briefly discuss the uses, types, and doses of topical anesthetics used in dentistry. (A,B,C,D)

### **Chapter 10 General Anesthetics**

1. Summarize the history of general anesthesia in dentistry. (A,B,C,D)
2. Describe how general anesthesia works and the stages and planes involved, as well as possible adverse reactions associated with its use. (A,B,C,D)
3. Compare and contrast the classifications of general anesthesia. (A,B,C,D)
4. Discuss the use of nitrous oxide in dentistry, including how it works, the pharmacologic effects, adverse reactions, and contraindications. (A,B,C,D)
5. Name and describe several types of halogenated hydrocarbons. (A,B,C,D)
6. List the goals of surgical anesthesia and the importance of using balanced general anesthesia. (A,B,C,D)

### **CHAPTER 11 ANTIANXIETY AGENTS**

1. Discuss the value of patient relaxation in dentistry. (A,B,C,D)
2. Describe the pharmacokinetics, mechanism of action, pharmacologic effects, adverse reactions, drug interactions, medical uses and dental relevance of the benzodiazepines and barbiturates. (A,B,C,D)
3. Name and briefly describe the mechanism of action of the nonbenzodiazepine- nonbarbiturate sedative-hypnotics and the nonbenzodiazapine-nonbarbiturate receptor agonists. (A,B,C,D)
4. Name a melatonin receptor agonist and summarize its actions. (A,B,C,D)
5. Explain the workings of the centrally acting muscle relaxants and how they are used. (A,B,C,D)
6. Name and briefly describe a few of the miscellaneous muscle relaxant agents that can be used. (A,B,C,D)
7. Discuss some general precautions about which the dental practitioner should be aware with the use of antianxiety agents. (A,B,C,D)

### **Chapter 12 Oral Conditions and Their Treatment**

1. Name several common infectious lesions of the oral cavity and summarize the treatments for each. (A,B,C,D)
2. Describe immune reactions resulting in canker sores and lichen planus and discuss the treatments for each. (A,B,C,D)
3. Name several oral conditions that result from inflammation and the measures used to treat them. (A,B,C,D)
4. Discuss treatment options for xerostomia and name several other possible drug induced oral side effects. (A,B,C,D)
5. Discuss the pharmacologic agents most commonly used to treat oral lesions. (A,B,C,D)

### **Chapter 13 Hygiene-Related Oral Disorders**

1. Discuss how improper oral hygiene can lead to dental caries and describe the general background of carious lesions. (A,B,C,D)
2. Discuss the importance of caries prevention and the nonpharmacologic therapies that are available to aid in this effort. (A,B,C,D)
3. Discuss the proper methods that patients should use when brushing and flossing. (A,B,C,D)
4. Discuss pharmacologic therapies and the role of fluoride in preventing caries. (A,B,C,D)
5. Discuss the possibility of toxicity with the use of fluoride, differentiate between acute and chronic fluoride toxicity, and discuss treatments for both types. (A,B,C,D)
6. Compare and contrast both professionally applied and at-home fluoride preparations. (A,B,C,D)
7. Discuss the proper methods for administering professionally applied fluoride preparations and identify various professionally applied topical agents. (A,B,C,D)
8. Discuss the general types of patient-applied fluoride preparations and the proper methods that patients should use regarding at-home fluoride treatments. (A,B,C,D)
9. Discuss the importance of Xylitol and Chlorhexidine in relation to dental hygiene. (A,B,C,D)
10. Discuss gingivitis: its pathophysiology, incidence, and available treatments. (A,B,C,D)
11. Discuss tooth hypersensitivity: its pathophysiology and available treatments, both at-home and in-office.  
(A,B,C,D)

### **Chapter 14 Drugs for the Treatment of Cardiovascular Disease**

1. Identify the dental implications of cardiovascular disease including contraindications to treatment, vasoconstrictor use and its relationship to periodontal disease. (A,B,C,D)
2. Describe heart failure and identify drugs commonly used to treat it, including the mechanisms of action, pharmacologic effects, and adverse reactions. (A,B,C,D)
3. Discuss the use of digoxin and the management of dental patients taking it. (A,B,C,D)
4. Define arrhythmia and dysrhythmia and describe how the heart maintains its normal rhythm. (A,B,C,D)
5. Describe the classifications, mechanisms of action, adverse reactions, and uses of antiarrhythmic agents and identify the issues to consider in dental treatment. (A,B,C,D)
6. Define angina pectoris and describe the types of drugs used to treat it; identify the dental implications of these drugs. (A,B,C,D)
7. Define hypertension, describe the categories it is divided into and identify its treatment with the various types of antihypertensive agents, including: describe the mechanisms of action, pharmacologic effects, adverse reactions, and uses of the various antihypertensive agents; identify potential drug interactions and the dental implications of these drugs; discuss the management of dental patients taking these drugs. (A,B,C,D)
8. Define hyperlipidemia and hyperlipoproteinemia and summarize the types of drugs used to restore cholesterol homeostasis in the body including the dental implications of their use. (A,B,C,D)
9. Describe the role of warfarin in blood coagulation and the potential adverse reactions and interactions associated with its use. (A,B,C,D)
10. Identify several other drugs that affect blood coagulation. (A,B,C,D)

### **Chapter 15 Drugs for the Treatment of Gastrointestinal Disorders**

1. Summarize the most common types of gastrointestinal diseases and their impact on oral health care.  
(A,B,C,D)

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2. Name and describe the types of drugs commonly used to treat gastrointestinal diseases, their uses, adverse reactions, drug interactions and any implications to dentistry, including: discuss the role of H<sub>2</sub>-receptor blockers in the treatment of peptic ulcer disease and gastroesophageal reflux disease; discuss the role of proton pump inhibitors and antibiotics in the treatment of peptic ulcer disease and gastroesophageal reflux disease; describe the role of antacids in the treatment of peptic ulcer disease and gastroesophageal reflux disease. (A,B,C,D)
3. Discuss several miscellaneous gastrointestinal drugs that can be used and their possible side effects. (A,B,C,D)
4. List the different type of laxatives and know the advantages and disadvantages of each. (A,B,C,D)
5. List the medications used to treat diarrhea. (A,B,C,D)
6. Define the term antiemetic and give examples of drugs used to treat vomiting and nausea. (A,B,C,D)
7. Discuss the medications used to manage chronic inflammatory bowel disease (IBD). (A,B,C,D)

### **Chapter 16 Drugs for the Treatment of Seizure Disorders**

1. Define epilepsy and briefly summarize the various types of seizures. (A,B,C,D)
2. Discuss drug therapy of patients with epilepsy and describe general adverse reactions to antiepileptic agents. (A,B,C,D)
3. Summarize the pharmacologic effects, adverse reactions, and drug interactions of the main anticonvulsants- valproate, lamotrigine, levetiracetam, oxcarbazepine, carbamazepine, and phenytoin. (A,B,C,D)
4. Discuss ethosuximide and benzodiazepines (two miscellaneous antiepileptics) and describe the workings of each. (A,B,C,D)
5. Provide several examples of new types of antiepileptics, including the mechanism of action, indications, and adverse reactions of each. (A,B,C,D)
6. Outline the dental treatment of patients with epilepsy. (A,B,C,D)

### **Chapter 17 Drugs for the Treatment of Central Nervous System Disorders**

1. Name and describe the three categories of functional disorders discussed in this chapter. (A,B,C,D)
2. Outline some basic precautions that the dental health care professional should keep in mind when treating patients with psychiatric disorders. (A,B,C,D)
3. Discuss antipsychotic agents and their mechanism of action as well as the following: identify first generation antipsychotics and their adverse reactions; identify second generation antipsychotics, their adverse effects, drug interactions, uses and dental implications. (A,B,C,D)
4. Discuss antidepressant agents, including: describe the mechanism of action and adverse reactions of selective serotonin reuptake inhibitors; describe the mechanism of action and adverse effects of serotonin norepinephrine reuptake inhibitors; describe the mechanism of action, adverse reactions, and drug interactions of the tricyclic antidepressants. (A,B,C,D)
5. Name several other types of antidepressants and their possible adverse reactions and dental implications. (A,B,C,D)
6. List several drugs used to treat bipolar disorder. (A,B,C,D)

### **Chapter 18 Adrenocorticosteroids**

1. Define adrenocorticosteroids and describe how the body releases them. (A,B,C,D)
2. Summarize the classification, administration, mechanism of action, and pharmacologic effects of adrenocorticosteroids. (A,B,C,D)

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3. Describe the various adverse reactions and uses of adrenocorticosteroids, including their application to dentistry. (A,B,C,D)
4. List several examples of corticosteroid products and describe the ways in which they are differentiated. (A,B,C,D)
5. List several dental implications to the use of steroids. (A,B,C,D)

### **Chapter 19 Drugs for the Treatment of Respiratory Disorders**

1. Summarize the two groups of respiratory diseases. (A,B,C,D)
2. Name and describe the mechanisms of action of several types of drugs used to treat respiratory diseases. (A,B,C,D)
3. Discuss the types of drugs used to treat respiratory infections, including the implications to dentistry. (A,B,C,D)

### **Chapter 20 Drugs for the Treatment of Allergic Rhinitis**

1. Define allergic rhinitis and describe the dental implications, pharmacologic effects, adverse reactions, and toxicity of antihistamines. (A,B,C,D)
2. Describe the dental implications, pharmacologic effects, and adverse reactions of the intranasal corticosteroids. (A,B,C,D)
3. Discuss montelukast, cromolyn sodium, and ipratropium bromide and describe their role in treating allergic rhinitis. Also describe the adverse reactions of ipratropium bromide. (A,B,C,D)
4. Describe the use of decongestants, including: discuss the pharmacologic effects, adverse reactions and uses in treating allergies; discuss the use of intranasal decongestants as an alternative to oral decongestants. (A,B,C,D)

### **Chapter 21 Drugs for the Treatment of Diabetes Mellitus**

1. Describe the importance of the hormones released by the endocrine glands in maintaining homeostasis, including: discuss the two primary hormones secreted by the pancreas and their role in relation to diabetes mellitus; define diabetes mellitus and describe the two types of this disease, its complications, and issues involving dentistry, cautions and contraindications in the treatment of patients with diabetes. (A,B,C,D)
2. Describe the systemic complications of diabetes and the evaluation of the dental patient with diabetes. (A,B,C,D)
3. Discuss the goals of therapy and the types of drugs used to treat diabetes. (A,B,C,D)
4. Discuss the dental concerns associated with antidiabetic therapy. (A,B,C,D)
5. Discuss four new drugs being used to treat diabetes and summarize their mechanism of action and possible adverse side effects. (A,B,C,D)
6. Discuss the treatment of hypoglycemia. (A,B,C,D)

### **Chapter 22 Drugs for the Treatment of Other Endocrine Disorders**

1. Discuss pituitary hormones, the functions of the anterior and posterior pituitary glands and describe the negative feedback mechanism that takes place in endocrine glands. (A,B,C,D)
2. Provide an overview of the thyroid hormones, conditions known as hypothyroidism and hyperthyroidism and antithyroid drugs. (A,B,C,D)
3. Summarize the major female and male sex hormones and describe several types of hormonal contraceptives. (A,B,C,D)

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4. Discuss other agents that affect sex hormones. (A,B,C,D)

### **Chapter 23 Antineoplastic Drugs**

1. Discuss antineoplastic agents and summarize their use, mechanisms of action, and classification. (A,B,C,D)
2. Describe several adverse drug effects associated with antineoplastic agents. (A,B,C,D)
3. Discuss the dental implications of patients planning to take or actively taking antineoplastic drugs. (A,B,C,D)

### **Chapter 24 Emergency Drugs**

1. Summarize the general measures a dental professional should follow to train for an emergency, including: describe the necessary preparation for treatment in the event of an emergency; list what can be done to help minimize the occurrence of an emergency in the dental office; list the steps that should be followed if an emergency does occur in the dental office. (A,B,C,D)
2. Name and describe several categories of emergencies and provide common examples within each category. (A,B,C,D)
3. List the critical drugs to include in a dental office emergency kit and several examples of second- or third level drugs that would be optional. (A,B,C,D)
4. Name several pieces of equipment that would be included in the emergency kit. (A,B,C,D)

### **Chapter 25 Pregnancy and Breast Feeding**

1. List the two main concerns in the administration of drugs during pregnancy. (A,B,C,D)
2. Describe the pregnancy trimesters in relation to dental treatment, define teratogenicity, outline the Food and Drug Administration's pregnancy categories for drugs, and discuss how breastfeeding affects dental drug use. (A,B,C,D)
3. Name several types of local anesthetic, antiinfective, and antianxiety agents and state their indications or contraindications for pregnant women. (A,B,C,D)

### **Chapter 26 Drug Abuse**

1. Define abuse and misuse and be familiar with the terms relating to drug abuse that are used in this chapter. (A,B,C,D)
2. Name several types of central nervous system depressants that are commonly abused and outline the typical pattern of abuse, treatment, adverse reactions, management of overdose and withdrawal, and dental treatment implications of each. (A,B,C,D)
3. Identify several types of central nervous system stimulants that are commonly abused. (A,B,C,D)
4. Describe the pattern of abuse and treatment options associated with the tobacco use, and summarize the role of the dental health care worker in tobacco cessation. (A,B,C,D)
5. Discuss several psychedelic hallucinogens and recognize symptoms produced by their use. (A,B,C,D)
6. Discuss ways in which the dental hygienist can identify patients or colleagues who may be abusing drugs. (A,B,C,D)

### **Chapter 27 Natural/Herbal Products and Dietary Supplements**

1. Discuss why people choose herbal products over traditional medicine. (A,B,C,D)
2. Discuss the federal legislation governing herbal and dietary products. (A,B,C,D)

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3. Discuss the safety of herbal and nutritional products and explain the adverse effects associated with their use and their impact on oral health care. (A,B,C,D)
4. Explain the drug interactions associated with herbal products and their impact on oral health care. (A,B,C,D)
5. Discuss the standardization of herbal products and the Good Manufacturing Practice standard introduced by the FDA. (A,B,C,D)
6. Discuss the herbal supplements that are used in oral health care. (A,B,C,D)

#### **DENTAL HYGIENE PROGRAM GOALS**

- A. To provide comprehensive preparation of competent individuals in the arts and sciences pertinent to the discipline of dental hygiene.
- B. To provide comprehensive preparation of competent individuals in the clinical and laboratory experiences, which are necessary to develop skills in rendering professional dental hygiene patient care to the public.
- C. To provide an environment which will foster respect for the Dental Hygiene Professional Code of Ethics and Conduct and assure recognition and acceptance of the responsibilities of the profession of dental hygiene.
- D. To prepare the graduates of the basic two-year curriculum in dental hygiene to fulfill the dental hygienist's role in community oral health services.
- E. To teach students to conduct critical reviews of current literature as a means of research and life-long learning.
- F. To teach students to seek life-long learning through continuing education courses on the latest products and developments in dentistry and medicine.



## DHYG 1206 Pharmacology and Pain Control

### Spring Semester 2019 Lesson Plan

Date/Week	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Competency Area
Session 1 01/08/19	Chapters 1-3	<p>First day of class/Introduction to Course—Syllabi, Outline, Rules, Regulations Coverage.</p> <p>Introduction to Clinical Pharmacology</p> <p>Information, Sources, Regulatory Agencies, Drug Legislation, and Prescription Writing</p> <p>Drug Action and Handling</p> <p>Adverse Reactions</p> <p>Lecture/PowerPoint Presentation/Group Discussion</p> <p>Give Case Study Quiz after each Chapter Discussion.</p> <p>Group Discussion of Chapter Case Studies</p> <p>Class Activity: Students will practice writing a prescription for Adult Premedication on a blank prescription form</p> <p>Give students handouts on Using Prefixes and Suffixes for Quick Drug Identification</p> <p>Group Activity:</p>	<p>Read Assigned Materials before class.</p> <p>Read Manage Medications Safely Reading Assignment on M: Drive</p> <p>Homework: Complete Academic Skills Assessment Questions and Clinical Case Study/Applications for each chapter prior to class.</p>	<p>CC 1,2</p> <p>GC a,b,c</p>

Date/Week	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Competency Area
		Hand out Chapter Activity Instructions. Students will complete assignments and present findings to class.		
Session 2 01/15/19	Chapters 4-5	<p>Autonomic Drugs</p> <p>Nonopioid (Nonnarcotic) Analgesics</p> <p>Lecture/PowerPoint Presentation/Group Discussion</p> <p>Give Case Study Quiz after each Chapter Discussion. Group Discussion of Chapter Case Studies</p> <p>Chapter Review by Students: Hand Out Index Cards with questions on each chapter. Students will present their findings to the class.</p> <p>Class Activity: Students will look up medications and list generic/trade name, mechanism of action, uses, side effects, and dental considerations.</p> <p>Group Activity: Hand out Chapter Activity Instructions. Students will complete assignments and present findings to class.</p>	<p>Class Preparation Assessment #1</p> <p>Read Assigned Materials before class.</p> <p>Homework: Complete Academic Skills Assessment Questions and Clinical Case Study/Applications for each chapter prior to class.</p>	CC 3,4 GC a,c
Session 3 01/22/19	Chapters 6-7	<p>Opioid (Narcotic) Analgesics and Antagonists</p> <p>Anti-infective Agents</p> <p>Lecture/PowerPoint</p>	<p>Exam 1 Chapters 1-5</p> <p>Read Assigned Materials before class</p> <p>Homework: Complete</p>	CC 2,3,4,7 GC a,c

Date/Week	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Competency Area
		<p>Presentation/Group Discussion</p> <p>Give Case Study Quiz after each Chapter Discussion. Group Discussion of Chapter Case Studies</p> <p>Give students handout on Most Common Illicit Drugs of Abuse</p> <p>Show 4 videos on drug abuse</p> <p>Class Activity: Students will answer individual questions on chapter material which are written on index cards.</p> <p>Group Activity: Hand out Chapter Activity Instructions. Students will complete assignments and present findings to class.</p>	<p>Academic Skills Assessment Questions and Clinical Case Study/Applications for each chapter prior to class.</p> <p>Complete Premedication for Joint Replacement Patients Homework Research Assignment on M:Drive Bring to next class session for discussion</p>	
<p>Session 4 01/29/19</p>	<p>Chapters 8-9</p>	<p>Antifungal and Antiviral Agents</p> <p>Local Anesthetics</p> <p>Lecture/PowerPoint Presentation/Group Discussion</p> <p>Give Case Study Quiz after each Chapter Discussion. Group Discussion of Chapter Case Studies</p> <p>Give handout Acronym to remember Local Anesthetic's Duration of Action</p>	<p>Class Preparation Assessment #2</p> <p>Read Assigned Materials before class.</p> <p>Homework: Complete Academic Skills Assessment Questions and Clinical Case Study/Applications for each chapter prior to class.</p> <p>View video prior to this Class Session: Local Anesthesia Injections used in Dentistry</p>	<p>CC 3,4 GC a,c</p>

Date/Week	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Competency Area
		<p>Give handout on Quadrant/Appointment Anesthesia Dental Hygiene Care Plan</p> <p>Give copy of Armamentarium/Syringe Preparation with various local anesthetic labels</p> <p>Lab Application: Show/Demonstrate How to Use Local Anesthetic.</p> <p>Armamentarium for a Clinic Patient: Cartridge, syringe, needle, topical, cotton tipped applicator, needle recapping device.</p> <p>Group Activity: Hand out Chapter Activity Instructions. Students will complete assignments and present findings to class.</p>	<p>Premedication for Joint Replacement Patients Homework Research Assignment Due This Session.</p>	
<p>Session 5 02/05/19</p>	<p>Chapters 10-11</p>	<p>General Anesthetics</p> <p>Antianxiety Agents</p> <p>Lecture/PowerPoint Presentation/Group Discussion</p> <p>Give Case Study Quiz after each Chapter Discussion. Group Discussion of Chapter Case Studies</p> <p>Group Activity: Hand out Chapter Activity Instructions. Students will complete assignments and present findings to class.</p>	<p>Class Preparation Assessment #3</p> <p>Read Assigned Materials before class.</p> <p>Homework: Complete Academic Skills Assessment Questions and Clinical Case Study/ Applications for each chapter prior to class.</p>	<p>CC 3-7</p> <p>GC a,b,c</p>

Date/Week	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Competency Area
Session 6 02/12/19	Chapters 12-13	<p>Oral Conditions and Their Treatment</p> <p>Hygiene-Related Oral Disorders</p> <p>Lecture/PowerPoint Presentation/Group Discussion</p> <p>Give Case Study Quiz after each Chapter Discussion. Allow time for students to answer individually. Group Discussion of Chapter Case Studies</p> <p>Index Card Individual Activity: Oral Condition, Description, and Treatment</p> <p>Group Activity: Hand out Chapter Activity Instructions. Students complete assignments and present findings to class.</p>	<p>Exam 2 Chapters 6-11</p> <p>Read Assigned Materials before class.</p> <p>Homework: Complete Academic Skills Assessment Questions and Clinical Case Study/Applications for each chapter prior to class.</p>	<p>CC 3,4</p> <p>GC a,c</p>
Session 7 02/19/19	Chapter 14	<p>Drugs for the Treatment of Cardiovascular Disease</p> <p>Lecture/PowerPoint Presentation/Group Discussion</p> <p>Give Case Study Quiz after each Chapter Discussion. Allow time for students to answer individually. Group Discussion of Chapter Case Studies</p> <p>Give handout on Blood Flow Case Studies/PowerPoint Oral Conditions ID Exercise</p>	<p>Class Preparation Assessment #4</p> <p>Read Assigned Materials before class</p> <p>Homework: Complete Academic Skills Assessment Questions and Clinical Case Study/Applications for each chapter prior to class.</p>	<p>CC 3,4</p> <p>GC a,c</p>

Date/Week	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Competency Area
		Group Activity: Hand out Chapter Activity Instructions. Students complete assignments and present findings to class.		
Session 8 02/26/19	Chapters 15-16	<p>Drugs for the Treatment of Gastrointestinal Disorders</p> <p>Drugs for the Treatment of Seizure Disorders</p> <p>Lecture/PowerPoint Presentation/Group Discussion</p> <p>Give Case Study Quiz after each Chapter Discussion. Allow time for students to answer individually. Group Discussion of Chapter Case Studies</p> <p>Chapter Activities Group Activity: Hand out Chapter Activity Instructions. Students will complete assignments and present findings to class.</p> <p>Prescription Drug Homework Research Activity: Assign medication to student to bring to next class session. Students print the template for activity off the M: Drive</p>	<p>Exam 3 Chapters 12-14</p> <p>Read Assigned Materials before class</p> <p>Homework: Complete Academic Skills Assessment Questions and Clinical Case Study/Applications for each chapter prior to class.</p>	<p>CC 3,4,5,7</p> <p>GC a,c</p>
Session 9 03/05/19	Chapters 17-18	<p>Drugs for the Treatment of Central Nervous System Disorders</p> <p>Adrenocorticosteroids</p>	<p>Class Preparation Assessment #5</p> <p>Read Assigned Materials before class</p>	<p>CC 3,4,5</p> <p>GC a,c</p>

Date/Week	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Competency Area
		<p>Lecture/PowerPoint Presentation/Group Discussion</p> <p>Give Case Study Quiz after each Chapter Discussion. Allow time for students to answer individually. Group Discussion of Chapter Case Studies</p> <p>Group Activity: Hand out Chapter Activity Instructions. Students complete assignments and present findings to class.</p>	<p>Turn in Prescription Drug Homework Research Assignment</p> <p>Homework: Complete Academic Skills Assessment Questions and Clinical Case Study/Applications for each chapter prior to class.</p>	
<p>Session 10 03/12/19</p>	<p>Chapters 19-20</p>	<p>Drugs for the Treatment of Respiratory Disorders</p> <p>Drugs for the Treatment of Allergic Rhinitis</p> <p>Lecture/PowerPoint Presentation/Group Discussion</p> <p>Give Case Study Quiz after each Chapter Discussion. Allow time for students to answer individually. Group Discussion of Chapter Case Studies</p> <p>Group Activity: Hand out Chapter Activity Instructions. Students will complete assignments and present findings to class.</p>	<p>Class Preparation Assessment #6</p> <p>Read Assigned Materials before class</p> <p>Homework: Complete Academic Skills Assessment Questions and Clinical Case Study/Applications for each chapter prior to class.</p>	<p>CC 3,4</p> <p>GC a,c</p>
<p>Session 11 03/19/19</p>	<p>Chapters 21-22</p>	<p>Drugs for the Treatment of Diabetes Mellitus</p> <p>Drugs for the Treatment of Other Endocrine Disorders</p>	<p>Exam 4 Chapters 15-20</p> <p>Read Assigned Materials before class</p>	<p>CC 3,4,5,7</p> <p>GC a,c</p>

Date/Week	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Competency Area
		<p>Lecture/PowerPoint Presentation/Group Discussion</p> <p>Give Case Study Quiz after each Chapter Discussion. Allow time for students to answer individually. Group Discussion of Chapter Case Studies</p> <p>Group Activity: Hand out Chapter Activity Instructions. Students will complete assignments and present findings to class.</p>	<p>Homework: Complete Academic Skills Assessment Questions and Clinical Case Study/Applications for each chapter prior to class.</p>	
<p>Session 12 03/26/19</p>	<p>Chapters 23-24</p>	<p>Antineoplastic Drugs</p> <p>Emergency Drugs</p> <p>Lecture/PowerPoint Presentation/Group Discussion</p> <p>Give Case Study Quiz after each Chapter Discussion. Allow time for students to answer individually. Group Discussion of Chapter Case Studies</p> <p>Group Activity: Hand out Chapter Activity Instructions. Students will complete assignments and present findings to class.</p>	<p>Class Preparation Assessment #7</p> <p>Read Assigned Materials before class</p> <p>Homework: Complete Academic Skills Assessment Questions and Clinical Case Study/Applications for each chapter prior to class.</p>	<p>CC 3,4,5</p> <p>GC a,c</p>
<p>04/01/2019 thru 04/04/2019</p>		<p>SPRING BREAK</p>		
<p>Session 13 04/09/19</p>	<p>Chapters 25-26</p>	<p>Pregnancy and Breastfeeding Drug Abuse</p>	<p>Exam 5 Chapters 21-24</p> <p>Read Assigned Materials</p>	<p>CC 2,3,4,5</p> <p>GC a,c</p>



Date/Week	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Competency Area
		<p>Lecture/PowerPoint Presentation/Group Discussion</p> <p>Give Case Study Quiz after each Chapter Discussion. Allow time for students to answer individually. Group Discussion of Chapter Case Studies</p> <p>Group Activity: Hand out Chapter Activity Instructions. Students will complete assignments and present findings to class.</p>	<p>before class.</p> <p>Homework: Complete Academic Skills Assessment Questions and Clinical Case Study/Applications for each chapter prior to class.</p>	
<p>Session 14 04/16/19</p>	<p>Chapter 27</p> <p>Bring Clinic Manual</p>	<p>Natural/Herbal Products and Dietary Supplements</p> <p>Lecture/PowerPoint Presentation/Group Discussion</p> <p>Give Case Study Quiz after each Chapter Discussion. Allow time for students to answer individually. Group Discussion of Chapter Case Studies</p> <p>Group Activity: Hand out Chapter Activity Instructions. Students will complete assignments and present findings to class. Class Activities: Role Play with Health Histories and Clinic Protocols</p>	<p>Class Preparation Assessment #8</p> <p>Read Assigned Materials before class.</p> <p>Homework: Complete Academic Skills Assessment Questions and Clinical Case Study/Applications for each chapter prior to class.</p>	<p>CC 1-7</p> <p>GC a,b,c</p>
<p>Session 15 04/23/19</p>	<p>Chapters 1-27</p>	<p>Final Review Chapters 1-27</p>	<p>Exam 6 Chapters 25-27 Bring notes for review</p>	<p>CC 1-7</p> <p>GC a,b,c</p>

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<b>Date/Week</b>	<b>Chapter/ Lesson</b>	<b>Content</b>	<b>Assignments &amp; Tests Due Dates</b>	<b>Competency Area</b>
DATE 05/01/19 WEDS 8:00am	Chapters 1-27	Comprehensive Final Exam	Exam 7 Comprehensive Final Chapters 1-27	CC 1-7  GC a,b,c

**Please note-Lesson plan and syllabus are subject to change at the discretion of instructor.**

**MAJOR COURSE COMPETENCIES (CC)**

1. Pharmaceutical Referencing
2. Legal and Ethical Considerations
3. Drug Effects
4. Contraindications
5. Drug Related Emergencies
6. Dental Related Anesthesia
7. Pain Control

**GENERAL EDUCATION CORE COMPETENCIES (GC)**

- 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.