



DAKOTA COLLEGE AT BOTTINEAU

Course Prefix/Number/Title: DAST 144 Biodental Science

Number of Credits: 2 Credits

Course Description:

This course provides an overview of the biological sciences and how it relates to dentistry. The student will become familiar with the following subjects: Oral histology and embryology, head and neck anatomy, landmarks of the face, oral pathology, microbiology, and pharmacology.

Pre-/Co-requisites: Acceptance into the dental assisting program

Course Objectives:

- Identify and explain the five major groups of microorganisms and how they can cause viral and bacterial diseases.
- Identify the regions of the head and neck, including bones, muscles, nerves and blood vessels.
- Demonstrate an understanding of histology and embryology.
- Demonstrate understanding of oral pathology.
- Identify drug types used in patients' medical histories, pre-medication, pain control and medical emergencies.

Dental Assisting Student Learning Outcomes addressed in this course

1. **Competently execute dental assisting skills:** Utilize current guidelines for infection control, occupational safety, and perform four-handed chairside dental assisting duties and advanced functions as permitted by the North Dakota Board of Dentistry.
2. **Maintain dental and business office records:** Ensure compliance with HIPAA regulations while managing dental office records effectively.

3. **Apply legal and ethical standards:** Adhere to the North Dakota Dental Practice Act and exhibit professionalism in all interactions with patients, coworkers, and other healthcare professionals.
4. **Provide compassionate and culturally aware care:** Deliver dental assisting services with respect and sensitivity to cultural diversity.

Dental Assisting Program Goals:

1. Earn and maintain full accreditation status according to the Commission on Dental Accreditation (CODA).
2. Admit 100% (12/12) qualified dental assisting students annually according to Dakota College Bottineau's dental assisting program acceptance criteria.
3. Maintain an annual program completion rate of 92% (11/12).
4. Maintain an annual job placement rate of 92% (11/12).
5. Maintain employer satisfaction rate of 90% with readiness skills and content preparation of graduates.

Instructor: Ricki Hill

Office: 2nd Floor Faculty

Office Hours: Tuesday & Friday 8am-12pm or by appointment

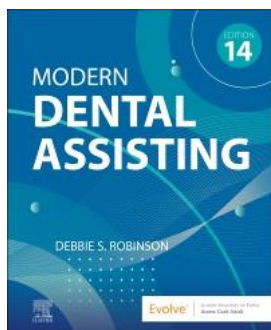
Phone: 701-858-3183

Email: ricki.hoffman@dakotacollege.edu

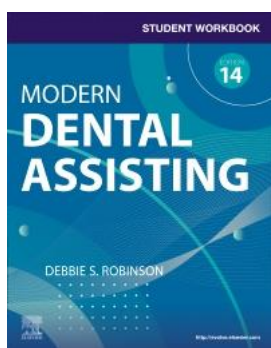
Lecture/Lab Schedule: This course is presented in an online format. There will be weekly assignments or discussions to complete and scheduled online exams.

Textbooks:

Robinson, D. (2023). *Modern Dental Assisting*. 14th Ed. St. Louis, MO. Elsevier. ISBN: 978-0-323-82440-8



Robinson, D. (2024). *Modern Dental Assisting Student Workbook*. 14th Ed. St. Louis, MO. Elsevier. ISBN: : 978-0-443-12031-2



Course Requirements:

The student must follow the topic schedule and submit assignments and tests by the due dates noted on the syllabus.

Main Topics Covered in Biodental Science

Week	Topic
Weeks 1, 2, 3	Oral Embryology & Histology
Weeks 4, 5, 6	Head and Neck Anatomy
Weeks 7, 8	Landmarks of the Face and Oral Cavity & Review of Tooth Morphology
Weeks 9, 10	Oral Pathology
Weeks 11, 12	Microbiology

Syllabus created by K. Pladson, updated by R. Hill June 2024

Weeks 13, 14	Principles of Pharmacology
Week 15	Review for final exam
Week 16	Final Exam

General Education Competency/Learning Outcome(s) OR CTE Competency/Department Learning Outcome(s):

Employs industry-specific skills for workplace readiness.

Relationship to Campus Focus: Nature, Technology, and Beyond

Dakota College Bottineau dental programs are designed to prepare students to meet the needs of communities by applying evidence-based decision making, using cutting-edge technology, and integrating quality and safety competencies into their dental programs. Each course within the program serves as a foundation for clinical practice in the dental assisting and dental hygiene professions. To meet the demands of the ever-changing field of dentistry, students are taught to value life-long learning.

Classroom Policies:

Grading

Course grades are based on a variety of activities and assignments designated by the faculty. The criteria by which grades for the course are calculated are included in the course syllabus distributed to students. Students have access to and should review the learning management system grading calculation method.

Students are responsible to know what their grades are during the course. Please review the gradebook frequently. If an assignment or exam in the student's gradebook says the assignment or exam has not been submitted or has not been entered, it is then treated as a fact the student didn't do the assignment or exam as outlined in the directions. Make sure your assignments are submitted before the due date to assure timely submission. Please see your Dakota Dental Program handbook for grading policies, in addition to the policies listed below.

Grades

Students must earn a minimum grade of “C” with a maintained 2.0 GPA or above in all required dental assisting program courses. Students who fail a theory or lab/clinical course will be dismissed from the dental assisting program. A final grade of “D” or “F” is considered to be a failed grade. If a student has unsatisfactory grades, he/she should contact the instructor for a remediation plan.

Assignments/Tests/Labs/Clinics

All assignments must be completed and submitted on time in the manner specified by the faculty. Students may fail the course if all assignments are not completed.

Late/makeup work

Late work will not be accepted (student will receive a zero) unless previously arranged with the instructor or impacted by extenuating circumstances. Upon approval, if an assignment is turned in within one week of the due date, there will be a 5% deduction from the assignment grade. Extenuating circumstances will be evaluated by the faculty for the course.

Late tests

If the student fails to take a test on time, he/she will need to contact the instructor to arrange a time to take the exam. There will be a 10% deduction from the test grade, for tests taken late. If a test isn’t taken within a week of the test date, you will receive a zero for that test. Extenuating circumstances will be evaluated by the faculty for the course.

This course will be evaluated by:

Graded Assignments	Points Possible
Ch. 8 Oral Embryology & Histology Create a chart developmental disturbances	22
Ch. 8 Oral Embryology & Histology Sketch and Label	8
Ch. 9 Head and Neck Anatomy Sketch and Label	11
Ch. 9 Head and Neck Anatomy Saliva Functions	8
Ch. 9 Head and Neck Anatomy Cranial Nerves Diagrams	14
Ch. 12 Tooth Morphology Clinical Considerations	10
Ch. 18 Microbiology Critical Thinking Questions	21
Ch. 18 Microbiology Viruses	18
Ch. 30 Pharmacology Drug Reference Handbook	20
Ch. 30 Pharmacology Common Drugs in dentistry	6
Total possible points for graded assignments	138

Exams	Points Possible
Oral Histology & Embryology	49
Head and Neck Anatomy	56
Landmarks of the Face and Tooth Morphology	87
Oral Pathology	42
Microbiology	39
Pharmacology	39
Final Exam	100
Total points possible	412

This course grade will be calculated by the percentages in the chart below:

Final course grade calculation	Percentage of final grade	Points possible	Percentage calculated
Graded Assignments	30%	138	41
Exams including final exam	70%	412	288
Total points for the course	100%	550	329

The following grade scale will be used:

A	92 - 100	303 - 329
B	84 – 91	276 - 302
C	75 – 83	247 -275
D	67 – 74	246 and below
F	Below 67	

Course Study Expectations:

Commitment to learning is important to success. For every semester credit you are taking in a class, (e.g., 3 credit course = 9 hours per week) the student should schedule three hours to read, study, and devote to your course, outside of class.

Questions

If you have questions or need clarification on anything to do with this course, please reach out to the instructor. The instructor can be reached by the contact information on the syllabus.

Student Email Policy:

Dakota College at Bottineau is increasingly dependent upon email as an official form of communication. A student's campus-assigned email address will be the only one recognized by the Campus for official mailings. The liability for missing or not acting upon important information conveyed via campus email rests with the student.

Academic Integrity:

According to the DCB Student Handbook, students are responsible for submitting their own work. Students who cooperate on oral or written examinations or work without authorization share the responsibility for violation of academic principles, and the students are subject to disciplinary action even when one of the students is not enrolled in the course where the violation occurred. The Code detailed in the Academic Honesty/Dishonesty section of the Student Handbook will serve as the guideline for cases where cheating, plagiarism or other academic improprieties have occurred.

Disabilities or Special Needs:

Students with disabilities or special needs (academic or otherwise) are encouraged to contact the instructor and Disability Support Services.

Title IX:

Dakota College at Bottineau (DCB) faculty are committed to helping create a safe learning environment for all students and for the College as a whole. Please be aware that all DCB employees (other than those designated as confidential resources such as advocates, counselors, clergy and healthcare providers) are required to report information about such discrimination and harassment to the College Title IX Coordinator. This means that if a student tells a faculty member about a situation of sexual harassment or sexual violence, or other related misconduct, the faculty member must share that information with the College's Title IX Coordinator. Students wishing to speak to a confidential employee who does not have this reporting responsibility can find a list of resources on the DCB Title IX webpage.

Biodental Science Tentative Topic Schedule

(Including course objectives and competency statements)

Fall semester

Syllabus created by K. Pladson, updated by R. Hill June 2024

Week Course Objectives (Found on page 1 of syllabus)	Topic & Competency Statements At the end of each module the student will be able to:	Online Assignments and Activities to meet objectives
Week 1 Course Objective: 3	Ch. 8 Oral Embryology & Histology 1. Pronounce, define, and spell the key terms.	Complete Module 1 online resources. Follow module outline from Introduction – Summary. Complete the Activities throughout module. Lesson 1: Oral Embryology
	1. Define embryology and discuss this important phase of development, which includes: • The three periods of prenatal development. • Prenatal influences on dental development. • Stages in the development of the hard and soft palates. • Stages in the development of a tooth. • The genetic and environmental factors that can affect dental development. • The functions of osteoclasts and osteoblasts.	Activity 1.5 Developmental Periods Activity 1.8: Embryonic Layers and Embryonic Period Activity 1.14: Embryonic Structures Labeling Watch the Video 1:12 Face and Palate Activities 1.19: Cells of Odontogenesis and Odontogenesis Steps Activity 1.23: Dental Anomalies

		Graded Assignment: Create a chart listing the 11 dental developmental disturbances in one column. Then add the description of what these disturbances look like in a second column. Finally, add a third column to your chart and add the cause of this developmental disturbance. Upload your chart to BB.
	1. Describe the life cycle of a tooth.	Take the Quiz for Lesson 1- Oral Embryology
Week 2 Ch. 8 (Continued) Course Objective: 3	1. Define histology and discuss its importance, which includes: • The difference between clinical and anatomical crowns. • The tissues of the teeth. • The three types of dentin. • The structure and location of dental pulp. • Components of the periodontium, including the functions of periodontal ligaments. • The various types of oral mucosa and give an example of each.	Continue with Module 1 online resources: Follow module outline from Introduction – Summary. Complete the Activities throughout module. Lesson 2: Oral Histology Activity 2.7: Terminology Activity 2.10: Enamel Activity 2.13: Dentin, Cementum and Pulp

		Activity 2.16: Periodontium Watch video 2.4 Pathogenesis of metastasis Activity: Periodontium Take the Quiz for Lesson 2: Oral Histology Quiz Graded Assignment: Using page 87 in your textbook, sketch a figure similar to Figure 8.15. Label the dental tissues for a posterior and anterior tooth. Upload to BB.
Week 3	Online Exam Ch. 8 – Module 1 Oral Histology & Embryology 49 points	Study and take the exam for Module 1 on BB
Weeks 4 Course Objective: 2	Ch. 9 Head & Neck Anatomy 1. Pronounce, define, and spell the key terms.	Complete Module 2: Head and Neck Anatomy using Evolve online resources. Follow module outline from Introduction – Summary. Complete the Activities throughout module.
	Identify the regions of the head.	Activity 1.8: Anatomic Terms for Direction Activity 1.12: Regions of the head

	- Locate and identify the bones of the skull, which include: - The bones of the cranium and the face and the hyoid bone. - The postnatal development of the skull. - Differentiation between the male and female skull.	Activity 2.7: Osseous Anatomy Terminology and the Infant Head Activity 2.11: Cranial Bones and Sutures Activity 2.16: Bones of the Skull Activity 2.17: Facial Bones
	- Discuss the temporomandibular joints, which include: - The components of the temporomandibular joint. - The action and movement of the temporomandibular joint. - Symptoms of temporomandibular joint disorders.	Watch Video 4.14 Video assessment of TMJ Activity 4.16 TMJ and Salivary Glands Graded Assignment: Using your text book, draw Figure 9. 1, page 96, and label the regions of the head. Upload your drawing to BB. Take online quiz as a practice for test on this unit
Week 5 Head and Neck Anatomy (Continued) Course Objective: 2	Locate and identify the muscles of the head and neck.	Follow module outline from Introduction – Summary. Complete the Activities throughout module. Activities: 3.9 Muscles of Mastication

		3.12 Muscles of Facial Expression 3.15 Other Muscles Groups 3.21 Innervation of Muscles
	Identify the locations of minor and major salivary glands and associated ducts, and name the three large paired salivary glands.	Activity: 4.16 TMJ and Salivary Glands
	Identify and trace the routes of the blood vessels of the head and neck.	Activity: 4.9 Circulation of the Head and Neck Graded Assignment Ch. 9: How is saliva produced and what is its function? Include: - Where is saliva produced and list the two types of saliva? - List the 3 main saliva glands and location - List the 1 minor saliva gland and location - List the purposes of saliva. Upload your answers to BB. Take online quiz as a practice for test on this unit
Week 6 Head and Neck Anatomy	- Identify and locate the nerves of the head and neck, which include: - The 12 cranial nerves. - The maxillary and mandibular divisions of the trigeminal nerve.	Follow module outline from Introduction – Summary. Complete the Activities throughout module.

(Continued) Course Objective: 2		Watch video: 3.16 Cranial Nerves
	• Discuss the importance of lymph nodes, which include: • The structure and function of lymph nodes. • The locations of the lymph nodes of the head and neck. • The locations of major lymph node sites of the body. • •	Activity: 4.12 The Lymph Nodes Watch videos: 4.10 Lymph Nodes of the Neck 4.11 Lymph Nodes of the Head and Neck Graded Assignment: There are 12 cranial nerves connected to the brain. These nerves serve both sensory and motor functions. Having a strong knowledge of the nerves and what they serve will assist you in treating your patient-especially when you place topical anesthetic prior to the dentist giving local anesthetic in preparation for dental restorative treatment. Create a simplified diagram showing the routes of the two of the main divisions of the trigeminal nerve, maxillary and mandibular division. Be sure to include the portions that the nerves innervate for the maxillary and mandibular divisions, such as teeth, tongue, and other soft tissues. List what

		each division innervates. Use your textbook page 111-112 to assist you in this activity. Upload to BB.
	Identify the paranasal sinuses and explain their function.	Take online quiz as a practice for test on this unit
	Online Exam Ch. 9 – Module 2 Head & Neck Anatomy 56 points	Study and take the exam for Module 2 on BB
Weeks 7 Course Objective: 2	Ch. 10 Landmarks of the Face and Oral Cavity Pronounce, define, and spell the key terms.	READ – Textbook (118) ANSWER – Student Workbook ANSWER – Student Workbook - Fill-in-the-Blank Statements 1-15 REVIEW – Evolve Student Resources - Audio Glossary CREATE Use index cards to create flashcards of the key terms and their definitions for this chapter.
	- Name and identify the landmarks of the face.	READ – Textbook (119-120) ANSWER – Textbook - Recall, questions 1, 2 ANSWER – Student Workbook - Short-Answer Question 1 - Multiple-Choice Questions 1, 2 - Labeling Exercise, question 1 APPLY – Student Workbook Activities, questions 1, 3

	- Name and identify the landmarks of the oral cavity, which include: - The structures found in the vestibular region of the oral cavity. - Characteristics of normal gingival tissue.	READ – Textbook (120-123) ANSWER – Textbook - Recall, questions 3-8 ANSWER – Student Workbook - Short-Answer Questions 2, 3, 5 - Multiple-Choice Questions 3-8
	- Name and identify the landmarks of the oral cavity proper, including: - Locate and identify the structures of the tongue. - Locate and describe the functions of the taste buds.	READ – Textbook (123-125) ANSWER – Textbook - Recall, questions 9-12 APPLY – Textbook - Critical Thinking, questions 1-3 ANSWER – Student Workbook - Short-Answer Questions 4, 6 - Multiple-Choice Questions 9-12 APPLY – Student Workbook - Activities, question 2 REVIEW – Student Workbook - Flashcard Appendix REVIEW – Evolve Student Resources - Mock Dental Assisting Board Examination - Practice Quiz
Week 8 Course Objective: 3	Ch. 12 Tooth Morphology- Review from Dental Anatomy course Pronounce, define, and spell the key terms.	Online Module 4 Lesson 1 Anterior Permanent Dentition Follow module outline from Introduction – Summary.
	Discuss the anterior permanent dentition, which includes:	Complete the activities throughout the module.

	• The location of each anterior permanent tooth. • Correct terminology when discussing features of the anterior permanent dentition. • The general and specific features of each tooth in the anterior permanent dentition. • Clinical considerations of each tooth in the anterior permanent dentition.	• Activity: Understanding Tooth morphology for Incisors- Activities 1 - 5 • Activity: Understanding Tooth Morphology for Canines labeling exercise • Take online quiz as practice for test on this unit.
	• Discuss the posterior permanent dentition, which includes: • The location of each posterior permanent tooth. • Correct terminology when discussing features of the posterior permanent dentition. • The general and specific features of each tooth in the posterior permanent dentition. • Clinical considerations of each tooth in the posterior permanent dentition.	Lesson 2 Posterior Permanent Dentition Follow module outline from Introduction – Summary. Activity 2.8 Identifying characteristics of Permanent Premolars Activity 1 and 2 Activity 2.14 Identifying Characteristics of Molars- Image Association Take online quiz as a practice for test on this unit.
	• Discuss the primary dentition, which includes: • Compare and contrast the features of the primary and permanent dentitions. • The general and specific features of the primary dentition. • Clinical considerations of the primary dentition.	• Graded Assignment for Ch. 12: Create a chart using the following headings: -Clinical Considerations: Incisors -Clinical Considerations: Canines

		-Clinical Considerations: Premolars -Clinical Considerations: Molars Using Ch. 12, add an explanation for each section Upload to BB.
	BB Online Exam Ch. 10 & 12 - Landmarks of the Face and Oral Cavity and Tooth Morphology 87 points	Take Test on Ch. 10 and 12
Weeks 9 Course objective: 4	Ch. 17 Oral Pathology – Module 9 Pronounce, define, and spell the key terms.	Complete Module 9: Oral Pathology using Evolve online resources. Follow module outline from Introduction – Summary. Complete the Activities throughout module.
	- Explain the importance of a dental assistant understanding oral pathology.	
	Describe the steps necessary when making a diagnosis	Activity 1.7: Diagnostic Techniques
	Describe the difference between acute and chronic inflammation, including the classic signs of inflammation.	Quiz Lesson 1 Introduction to Oral Pathology Quiz
	- Describe the types of oral lesions.	Activity 2.6: Classification of Lesions

	Name three types of diseases of the oral soft tissues.	Activity 2.10: What is It?
	Describe three conditions associated with the tongue.	Activity 2.15: Conditions of the Tongue Quiz Disease and Conditions of the Oral Soft Tissues
Week 10 Course objective: 4	- Discuss oral cancer, which includes: - The warning symptoms of oral cancer. - Understanding leukemia. - The appearance of lesions associated with the use of smokeless tobacco. - Three types of therapy for oral cancer.	Follow module outline from Introduction – Summary. Complete the Activities throughout module.
	Discuss HIV/AIDS and its oral manifestations, including five lesions that are associated with HIV/AIDS.	
	- Recognize developmental disorders of the jaws and dentition, which include: - The three anomalies that affect jaw development. - An anomaly that affects lip, palate, and tongue development. - The three anomalies that affect the number of teeth. - The five anomalies related to the shape of the teeth. - The conditions associated with abnormal eruption of the teeth.	Activity 3.7. Matching
	- Discuss other types of disorders that can occur, which include: - Two oral conditions related to nutritional factors. - Bruxism.	

	• The oral conditions of a patient with bulimia. • The dental complications of oral piercings. • The oral effects of methamphetamine use.	
Online Exam Ch. 17- Module 9 Oral Pathology	42 points	Study and take the exam for Module 9
Weeks 11 Course objective: 1	Ch. 18 Microbiology • Pronounce, define, and spell the key terms.	READ – Textbook (240-241) ANSWER – Student Workbook • Fill-in-the-Blank Statements 1-18 REVIEW – Evolve Student Resources • Audio Glossary CREATE Students use index cards to create flashcards of the key terms and their definitions for this chapter.
	• Explain why the study of microbiology is important for the dental assistant.	READ – Textbook (241) ANSWER – Textbook • Recall, question 1 APPLY – Textbook • Critical Thinking, question 2 ANSWER – Student Workbook • Short-Answer Question 2 • Multiple-Choice Questions 1, 10
	• Discuss the contributions of early pioneers in microbiology.	READ – Textbook (241) ANSWER – Textbook • Recall, questions 2-4 ANSWER – Student Workbook • Short-Answer Question 1

		Multiple-Choice Questions 2-4
	List the four criteria of Koch's postulates.	READ – Textbook (241-242) APPLY – Textbook Critical Thinking, question 1
	- Identify and explain the five major groups of microorganisms, including the following: - Identify the three basic types of bacteria according to their shape. - Explain the Gram stain classification system used to identify bacteria. - Describe the differences among aerobes, anaerobes, and facultative anaerobes. - Identify the most resistant form of life known, and explain how it survives. - Describe how prions differ from viruses and bacteria and name two diseases caused by prions. - Compare viruses with bacteria, and name diseases caused by each. - Explain why specificity in viruses is important.	READ – Textbook (242-246) ANSWER – Textbook - Recall, questions 5-9 ANSWER – Student Workbook - Short-Answer Questions 3-11 Multiple-Choice Questions 5-9 Graded Assignment Ch. 18 Microbiology: Read the critical thinking question. Respond on the BB discussion board. Once you have made your post, respond to at least two classmates' posts with critical feedback. A dental assistant has been hired in a dental office setting where no infection control protocol is in place. The dentist has asked the dental assistant to develop an infection control program for the office and a training program for the staff. What resources or guidelines should the dental assistant consult? What aspects of microbiology should the dental assistant include in the training program and why? Upload to BB LMS.

Week 12 Course objective: 1	• Discuss viral diseases, including the following: • Identify five types of viral hepatitis and explain how each one is transmitted. • Identify methods of HIV transmission and explain the effect of HIV on the human body. • Explain the difference between the five types of herpes virus, including type 1 and type 2 herpes simplex virus. • Describe the symptoms of an infection of West Nile virus. • Describe the symptoms of influenza and how it is spread.	READ – Textbook (246-250) ANSWER – Textbook • Recall, questions 10-16 APPLY – Textbook • Critical Thinking, question 4 ANSWER – Student Workbook • Short-Answer Questions 12-16 • Multiple-Choice Questions 11, 15 Topics for Discussion, questions 1-4
	• Discuss bacterial diseases, including the following: • Name the disease that is the leading cause of death from infectious diseases worldwide. • Identify the bacterium discovered during an American Legion convention and explain its mode of transmission. • Explain how tetanus can be prevented. • Describe the three stages of syphilis. • Identify the method of transmission of methicillin-resistant Staphylococcus aureus (MRSA) and explain the best methods to prevent its spread.	READ – Textbook (250-253) ANSWER – Textbook • Recall, questions 17-19 APPLY – Textbook • Critical Thinking, question 3 ANSWER – Student Workbook • Short-Answer Question 17 Multiple-Choice Questions 12-14
	• Describe the possible effects of a pandemic disease. •	Graded AssignmentCh. 18 Microbiology New viral diseases are being discovered and are increasingly destructive, as we saw with the COVID-19

		virus. The instructor for this course will assign each student one of the following viruses. Write a paragraph and include the following: • Description of the virus • Etiology • Route of transmission • Is it a chronic condition? • How can it be prevented? Post this to the online Discussion on BB. Read and respond to at least two classmates posts. RESEARCH Have the students go to the CDC Web site www.pandemicflu.gov in order to learn about preparations for a pandemic.
Online Exam Ch. 18 Microbiology	• 39 points	Study and take the exam Ch. 18
Weeks 13 Course Objective: 5	• Ch. 30 Principles of Pharmacology • • 1. Pronounce, define, and spell the key terms. •	READ – Textbook (422) ANSWER – Student Workbook • Fill-in-the-Blank Statements 1-15 REVIEW – Evolve Student Resources • Audio Glossary CREATE • Students use index cards to create flashcards of the

		key terms and their definitions for this chapter.
	- Differentiate between a drug's chemical, generic, and brand or trade name.	READ – Textbook (422-423) ANSWER – Textbook - Recall, questions 1, 2 ANSWER – Student Workbook - Short-Answer Question 1 - Multiple-Choice Questions 1, 2
	- Discuss the dispensing of drugs, which includes: - Types of scheduled drugs from the Controlled Substances Act. - Drug Enforcement Agency. Parts of a prescription.	READ – Textbook (423-425) ANSWER – Textbook - Recall, questions 3-7 ANSWER – Student Workbook - Short-Answer Questions 3, 5, 8 - Multiple-Choice Questions 4-6, 9, 15 - Abbreviation Identification
	- Describe the use of drug reference materials.	READ – Textbook (425-425) APPLY – Textbook Critical Thinking, question 1 ANSWER – Student Workbook Short-Answer Question 7 Graded Assignment Ch. 30 Pharmacology: Using a drug dental reference handbook, locate 10 drugs and list their chemical, generic, and brand name. Upload your assignment to BB LMS.
Week 14 Course Objective 5	- Give the routes in the administration of drugs.	READ – Textbook (425, 426) - Table 30.2 ANSWER – Textbook - Recall, questions 8, 9

		APPLY – Textbook • Critical Thinking, question 5 ANSWER – Student Workbook • Short-Answer Question 4 • Multiple-Choice Questions 3, 7, 8
	• List the stages a drug goes through in the body. •	READ – Textbook (425-427) ANSWER – Textbook • Recall, question 10 ANSWER – Student Workbook Short-Answer Question 2
	• List the drugs commonly prescribed in dentistry. • Analgesics • Antibiotics • Antifungal Agents • Antiviral Agents • Antianxiety Agents • Orally transmit a prescription prescribed and authorized by a dentist •	READ – Textbook (427-428) ANSWER – Textbook • Recall, questions 11, 12 APPLY – Textbook • Critical Thinking, questions 2, 4 ANSWER – Student Workbook • Short-Answer Question 9 • Multiple-Choice Questions 11-13 APPLY – Student Workbook • Case Study, questions 1-9
	• List the drugs frequently prescribed in medicine. •	READ – Textbook (428-430) ANSWER – Textbook • Recall, questions 13, 14 ANSWER – Student Workbook • Multiple-Choice Question 14 • Activity
	• Describe the adverse drug effects • Allergic reactions • Drug interactions • Drug tolerance	READ – Textbook (430-431) ANSWER – Textbook • Recall, question 15 APPLY – Textbook

	• Drug addiction • • Adverse drug effects of opioids and other substances. • •	• Critical Thinking, question 3 ANSWER – Student Workbook • Short-Answer Question 6 • Multiple-Choice Question 10 Graded Assignment Ch. 30 Principles of Pharmacology Investigate a <i>commonly used drug prescribed in dentistry</i> using a drug reference such as the PDR® or Internet resources. -List the drug -Reason it is used in dentistry and -Method of administration. Upload your assignment to BB LMS. • REVIEW – Student Workbook • Flashcard Appendix REVIEW – Evolve Student Resources • Mock Dental Assisting Board Examination • Practice Quiz
Online Exam Ch. 30 Pharmacology	• 39 points	
Week 15 Course Objectives: 1 - 5	• Review for final exam	•

Week 16 Online Final Exam	• 100 points	
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