



DENT 116
Dental Anatomy

Course Prefix/Number/Title: DENT 116 – Dental Anatomy

Course Credits/Hours: 2

Syllabus Updated for DCB: January 2025 by E. Ternes

Course Description: This course provides the fundamental study of the primary, mixed and permanent dentition, including the morphology, function, and nomenclature. Eruption and exfoliation patterns and Angle's classification of malocclusion will also be topics of study.

Online Course Information:

Expectations for Work Online:

Although we will not meet in-person, this course requires the SAME amount of work. Taking an online course demands a lot of discipline, self-direction, and time management skills. You will be expected to do work would otherwise have been previously been conducted in-class.

Technical Requirements:

You will need regular access to a computer with reliable Internet access to complete Graded Assignments and tasks. If you have your own computer or are considering purchasing hardware, please refer to DCB's [Recommended Computer Specifications](#).

Pre-/Co-requisites: None

Course Objectives:

Upon successful completion of this course students will:

1. Define and pronounce key dental anatomy terms.
2. Describe the primary, mixed and permanent dentition periods and the relationship to each other.
3. Identify the primary and permanent teeth, their properties, and clinical considerations.
4. Assign the correct name and universal tooth number for each primary and permanent tooth on a diagram and skull or tooth model.
5. State the eruption and exfoliation dates for each tooth.
6. Identify each division of Angle's classification of malocclusion on a diagram and skull or tooth model.

Dental Assisting Graduation Competencies 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 Hygiene Graduation Competencies addressed in this course:

1. Provide patient centered, comprehensive, evidence-based dental hygiene care to a diverse socioeconomic, educational, and cultural patient population.
2. Apply the principles of professional and ethical standards in providing dental hygiene care to individuals of all populations.
3. Provide students with opportunities for interprofessional community health promotion.
4. Exhibit professionalism and communicate effectively with patients, coworkers, and other healthcare professionals.
5. Engage in professional activities and lifelong learning.

Instructor: Emily Ternes, BSDH, RDH

Office: n/a

Office Hours: n/a - email to set up

Email: Emily.m.ternes@dakotacollege.edu

Course Schedule:

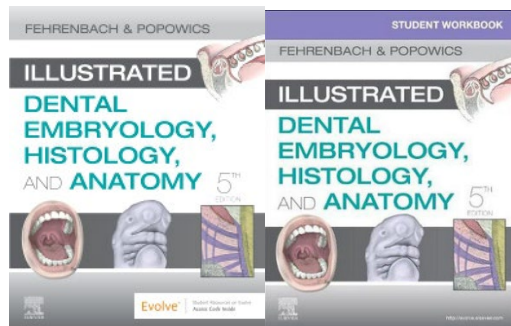
This online course has an estimated 32 hour contact hours throughout the semester and has specific due dates for assignments and tests.

Required Materials:

Textbook Required: Fehrenbach, M., Popowics, T. 2020. *Illustrated Dental Embryology, Histology and Anatomy*. 5th Ed. St. Louis, MO. Elsevier. ISBN: 978-0-323-61107-7

Typodont Required: **Kilgore Anatomical Model ANA7001 or B3-305** Anatomically shaped teeth for dental anatomy studies.

HIGHLY RECOMMENDED, but not required student workbook: Fehrenbach, M., Popowics, T. 2020. *Student Workbook for Illustrated Dental Embryology, Histology and Anatomy*. 5th Ed. St. Louis, MO. Elsevier. ISBN: 978-0-323-63990-3



Course Requirements: The student must pass this course with a letter grade of “C” or above. The student must earn at least a 75% to pass this course with a “C” or above.

Tentative Course Outline:

Week	Topic
Week 1	Overview of Dentitions
Week 2	Overview of Dentitions
Week 3	Overview of Dentitions
Week 4	Permanent Anterior Teeth
Week 5	Permanent Anterior Teeth
Week 6	Permanent Canines
Week 7	Permanent First Premolar
Week 8	Permanent Second Premolar
Week 9	Permanent Molars
Week 10	Permanent Molars
Week 11	Permanent Molars
Week 12	Primary Dentition
Week 13	Primary Dentition
Week 14	Occlusion
Week 15	Occlusion
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:

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:**Classroom Etiquette**

- Be punctual to lectures, labs and clinics
- Avoid any activity that may cause distraction during class.
- Incivility will not be tolerated
- Use of mobile devices and related applications and cameras are not allowed to be used, unless it is for a class activity.
- Children are not allowed in the classroom.

Active Learning:

In addition to educational strategies such as reading, listening and reflecting, when appropriate this class makes use of learning techniques commonly known as active learning. Students should expect to participate in active learning techniques such as discussions and presentations, small group activities, writing, problem-solving, case studies, role-playing, etc. These activities promote analysis, synthesis, and evaluation of class content in order to improve student learning outcomes.

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.

Attendance

Attendance is mandatory at all lectures, labs and clinic sessions. If you must be absent, (e.g., illness) please inform the instructor as soon as possible. It is the student's responsibility to meet with the faculty to find out what was missed. Labs and clinics may not be able to be made up. The instructor will assist you in finding an alternate assignment to learn the material missed.

Grading:

Course and lab/clinic grades are based on a variety of activities and assignments designated by the faculty. The criteria by which grades for each theory and clinical course 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.

Students must earn a minimum grade of "C" with a maintained 2.0 GPA or better in all required dental program courses. Students who fail a theory or lab/clinical course will be dismissed from the dental 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 as soon as possible to discuss remediation.

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. If you have questions or need clarification, please reach out to the instructor of the course.

Late/makeup work:

Late work will be accepted within reason, unless previously arranged with the instructor or impacted by extenuating circumstances. Late assignments will have a 25% deduction from the assignment grade. Extenuating circumstances will be evaluated by the faculty for the course.

Late tests:

If a 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.

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.

AI Student Policy:

Unless otherwise indicated in the course syllabus, or in individual instructions for course assignments, or in the absence of the express consent of the course instructor, students are not allowed to utilize generative AI to help produce any of their academic work. Any violation of this policy will be considered an act of academic dishonesty as outlined within the Dakota College Code of Student Life.

This course will be evaluated by:

- Graded Assignments
- Chapter Tests
- Final Exam (cumulative)

Graded Assignments	Points Possible
1. Ch. 15 Overview of the Dentitions- Discussion Dentition Periods	9
2. Ch. 15 Comparing Primary to Permanent Dentitions	6
3. Ch. 15 Universal Numbering System Discussion	12
4. Ch. 16 Permanent Central Incisors	24
5. Ch. 16 Permanent Maxillary and Mandibular Incisors Chart	40
6. Ch. 16 Permanent Canine Teeth Scenario	12
7. Ch. 17 Permanent Premolars Summary of Tooth Identification	24

8. Ch. 17 Permanent Premolars Characteristics Table	12
9. Ch. 17 Permanent First Molars Characteristics Table	6
10. Ch. 17 Pit and Groove Patterns on Posterior Teeth Discussion	9
11. Ch. 17 Clinical Considerations for Permanent Third Molars	5
12. Ch. 18 Primary Dentition Clinical Considerations	9
13. Ch. 18 Primary Dentition Scenario	9
14. Ch. 20 Occlusion - relationships	6
15. Ch. 20 Occlusion – parafunctional habits	6
Total possible points for graded assignments	189

Exams	Points Possible
Ch. 15 Overview of the Dentitions	25
Ch. 16 Permanent Anterior Teeth- Central and Lateral Incisors	15
Ch. 16 Permanent Canines	15
Ch. 17 Permanent Premolars	12
Ch. 17 Permanent Molars	18
Ch. 18 Primary Dentition	25
Final Exam Comprehensive	70
Total points possible	180

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

Categories	Points Possible
Assignments	189
Exams	180
Total points for the course	369

The following grade scale will be used:

A	92 - 100	339 and above
B	84 – 91	309 - 338
C	75 – 83	276 - 308
D	67 – 74	247 - 275
F	Below 67	246 or below

Topic Schedule: Dental Anatomy

Week and Course Objectives (From syllabus page 1)	Specific Instructional Objectives: At the end of the course the student will be able to:	Student Preparation, Learning Experiences and Evaluation Measures
Weeks 1, 2 & 3	Ch. 15: Overview of Dentitions 1. Define and pronounce the key terms in this chapter.	View PPT for Ch. 15 READ – Textbook (pp. 197-210)

Course Objectives: 1, 2, 3, 4, 5		<p>ANSWER – Workbook Glossary Exercises</p> <p>Part 1: Chapter Word Jumbles Chapter 15: Overview of Dentitions</p> <p>Part 2: Unit Crossword Puzzles Unit IV: Dental Anatomy Crossword Puzzles 1 and 2</p> <p>Part 3: Unit Word Search Puzzles Unit IV: Dental Anatomy Word Search Puzzles 1-3</p> <p>Using Evolve Student Resources begin working on the Review and Assessment Questions. Complete the portion for which you have covered the material so far. You may work with a partner or small group.</p> <p>Week One Graded Assignment: Use the following questions to write a discussion post. Once you've posted your response, respond to two classmates' posts.</p> <ol style="list-style-type: none"> 1. How does form follow function with the various types of teeth in each dentition? 2. How does each dentition period relate to the two dentitions?
	2. Describe the two dentitions and the relationship to each other.	<p>READ – Textbook (p. 197) Begin Evolve Student Resources Review and Assessment Questions 1 – 24. You should work on these questions throughout the next three weeks.</p>
	3. Recognize tooth types and outline the tooth numbering systems.	<p>READ – Textbook (pp. 197-198)</p>
	4. Assign the correct universal or international number for a tooth and its correct dentition period on a	<p>READ – Textbook (pp. 197-198)</p> <p>ANSWER – Workbook Structure Identification Exercises Unit IV: Dental Anatomy</p>

	<p>diagram or a skull and for a tooth model or a patient.</p>	<p>Chapter 15: Overview of Dentitions Figure 15.1; Figure 15.2; Figure 15.5</p> <p>Week 2 Graded Assignment: Draw a simple picture of the primary dentition. Then add the permanent dentition near the primary tooth it replaces. Think about how the permanent teeth erode the roots of the primary teeth so they become loose and exfoliate (fall out) so there is room for the permanent tooth. This is a great exercise you may use when you are explaining to a child or parent on how primary teeth get loose and make room for the permanent tooth. It can be a very simple drawing of the teeth. Don't spend hours on this! Create a scenario as if you are explaining the tooth numbering system (1 - 32) and directional terms (mesial, distal, etc.) to a new dental program student. Include what visuals might help. Once you have posted your scenario, read and respond to two classmates' scenarios. Give critical feedback. Don't just respond with this is good.</p>
	<p>5. Define each dentition period and discuss the clinical considerations concerning each dentition period, integrating it into patient care.</p>	<p>READ – Textbook (pp. 198-200) Clinical Considerations for Dentition Periods</p>
	<p>6. Use the correct dental anatomy terminology and discuss the clinical considerations concerning tooth anatomy, integrating it into patient care.</p>	<p>READ – Textbook (pp. 201-204) Clinical Considerations with Tooth Anatomy</p> <p>ANSWER – Workbook Structure Identification Exercises Unit IV: Dental Anatomy Chapter 15: Overview of Dentitions Figure 15.6; Figure 15.7; Figure 15.8; Figure 15.9</p>

	<p>7. Use the correct orientational tooth terms and discuss the clinical considerations concerning tooth surfaces, integrating it into patient care.</p>	<p>READ – Textbook (pp. 204-207) Clinical Considerations for Tooth Surfaces</p> <p>ANSWER – Workbook Structure Identification Exercises Unit IV: Dental Anatomy Chapter 15: Overview of Dentitions Figure 15.11; Figure 15.12; Figure 15.14</p> <p>Week 3 Graded Assignment: Online Discussion post Create a scenario as if you are explaining the tooth numbering system (1 - 32) and directional terms (mesial, distal, etc.) to a new dental program student. Include what visuals might help. Once you have posted your scenario, read and respond to two classmates' scenarios. Give critical feedback. Don't just respond with this is good.</p>
	<p>8. Identify tooth forms and discuss the clinical considerations concerning them, integrating it into patient care.</p>	<p>READ – Textbook (pp. 207-210) Clinical Considerations for Tooth Form</p> <p>ANSWER – Workbook Clinical Identification Exercises Part 3: Clinical Identification Exercise Tooth Type in Dentition</p>
	<p>Study for online exam</p>	<p>READ – Evolve Student Resources</p> <ul style="list-style-type: none"> Supplemental Considerations <p>ANSWER – Evolve Student Resources</p> <ul style="list-style-type: none"> Review & Assessment Questions 1-24 should be completed
<p>Due Date: 02/09/2025</p>	<p>Assessment for Ch. 15 Overview of the Dentitions Online Exam 25 points</p>	<p>Online Exam: Study for and take online exam Ch. 15 Overview of the Dentitions</p>
<p>Weeks 4 & 5</p> <p>Course Objectives: 1, 3, 4, 5</p>	<p>Ch. 16 Permanent Anterior Teeth Objectives</p> <p>1. Define and pronounce the key terms in this chapter.</p>	<p>View PPT for Ch. 16 READ – Textbook (pp. 211-230)</p> <p>ANSWER – Workbook Glossary Exercises Part 1: Chapter Word Jumbles</p>

		<p>Chapter 16: Permanent Anterior Teeth</p> <p>Part 2: Unit Crossword Puzzles Unit IV: Dental Anatomy Crossword Puzzles 1 and 2</p> <p>Part 3: Unit Word Search Puzzles Unit IV: Dental Anatomy Word Search Puzzles 1-3</p>
	<p>2. Identify the permanent anterior teeth and discuss their properties and the clinical considerations concerning them, integrating it into patient care.</p>	<p>READ – Textbook (pp. 211-212) Clinical Considerations with Permanent Anterior Teeth</p>
	<p>3. Assign the correct names and universal or international tooth number for each permanent anterior tooth on a diagram or a skull and for a tooth model or patient.</p>	<p>READ – Textbook (pp. 211-212) Demonstrate the correct location of each permanent anterior tooth on a diagram, a skull, and a patient.</p> <p>Week 4 Graded Assignment: Create a video, demonstrating the correct location of each central and lateral permanent incisors on a typodont. Give the correct name and universal tooth number as you point it out on the typodont. Upload the video below.</p>
	<p>4. Demonstrate the correct location of each permanent anterior tooth on a diagram, a skull, and a patient.</p>	<p>READ – Textbook (pp. 211-212)</p>
	<p>5. Identify the permanent incisors and their general features and discuss their clinical considerations, integrating it into patient care.</p>	<p>READ – Textbook (pp. 212-216) Clinical Considerations with Permanent Incisors</p> <p>Week 5 Graded Assignment:</p>

		<p>Using your textbook or PPT, create a chart to help you learn how to clinically identify permanent incisors. Include:</p> <ol style="list-style-type: none"> 1. Crown outline from various angles- buccal, lingual, mesial, distal, incisal 2. Lingual surface description 3. General features of the permanent maxillary incisors 4. Specific features of the permanent maxillary incisors 5. How you can distinguish the permanent maxillary right central incisor from the left? 6. How you can distinguish the permanent maxillary right lateral incisor from the left? 7. General features of the permanent mandibular incisors 8. Specific features of the mandibular incisors 9. How can you distinguish the permanent mandibular right central incisor from the left? 10. How can you distinguish the permanent mandibular right lateral incisor from the left?
	<p>6. Describe the general and specific features of the permanent maxillary incisors and discuss the clinical considerations concerning them, integrating it into patient care.</p>	<p>READ – Textbook (pp. 216-224)</p> <ul style="list-style-type: none"> • Clinical Considerations with Permanent Maxillary Incisors • Clinical Considerations with Permanent Maxillary Central Incisors • Clinical Considerations with Permanent Maxillary Lateral Incisors • Clinical Considerations with Permanent Mandibular Incisors • Clinical Considerations with Permanent Mandibular Central Incisors

		<ul style="list-style-type: none"> Clinical Considerations with Permanent Mandibular Lateral Incisors
	Study for online exam	READ – Evolve Student Resources Supplemental Considerations ANSWER – Evolve Student Resources <ul style="list-style-type: none"> Review & Assessment Questions 1-30 Tooth Identification Exercises
Due Date: 02/23/2025	Assessment for Ch. 16 Permanent Anterior Teeth-Central and Lateral Incisors Online Exam 15 points	Online Exam: Study for and take online exam Ch. 16 Permanent Anterior Teeth
Week 6 Course Objectives: 1, 3, 4, 5	Ch. 16 Permanent Canines Objective <ol style="list-style-type: none"> Describe the general and specific features of the permanent maxillary canines and discuss the clinical considerations concerning them, integrating it into patient care. 	View PPT on Ch. 16 Permanent Canines READ – Textbook (pp. 224-229) Clinical Considerations With Permanent Canines <ul style="list-style-type: none"> Clinical Considerations with Permanent <i>Maxillary</i> Canines
	<ol style="list-style-type: none"> Describe the general and specific features of the permanent mandibular canines and discuss the clinical considerations concerning them, integrating it into patient care. 	READ – Textbook (pp. 229-230) <ul style="list-style-type: none"> Clinical Considerations with Permanent <i>Mandibular</i> Canines
	<ol style="list-style-type: none"> Assign the correct names and universal or international tooth number for each permanent anterior tooth on a diagram or a skull and for a tooth model or a patient. 	READ – Textbook (pp. 224-230)
	<ol style="list-style-type: none"> Demonstrate the correct location of each permanent 	READ – Textbook (pp. 224-230) ANSWER – Workbook

	anterior tooth on a diagram, a skull, and a patient.	<p>Structure Identification Unit IV: Dental Anatomy Chapter 16: Permanent Anterior Teeth Figure 16.7; Figure 16.16; Figure 16.22; Figure 16.23; Figure 16.27</p> <p>Week 6 Graded Assignment Ch. 16 Your patient has extensive periodontal disease, and they have lost many teeth due to the disease progression. The patient still has all four canine teeth though. The patient is very interested in partial dentures to improve their esthetics and function.</p> <p>Please Explain... Why are the canine teeth being retained even with extensive periodontal disease? Why are the canines considered a good anchor for the patient's partial dentures?</p>
	Study for online exam	<p>READ – Evolve Student Resources Supplemental Considerations</p> <p>ANSWER – Evolve Student Resources Review & Assessment Questions 31-39</p>
Due Date: 03/02/2025	Assessment for Ch. 16 Permanent Canines Online Exam 15 points	Online Exam: Study for and take online exam Ch. 16 Permanent Canines
Weeks 7 & 8 Course Objectives: 1, 3, 4, 5	<p>Ch. 17 Permanent Premolars Objectives:</p> <ol style="list-style-type: none"> 1. Define and pronounce the key terms in this chapter. 	<p>View PPT for Ch. 17 on Permanent Premolars</p> <p>READ – Textbook (pp. 231-264)</p> <p>ANSWER – Workbook Glossary Exercises: Part 1: Chapter Word Jumbles Chapter 17: Permanent Posterior Teeth</p> <p>Part 2: Unit Crossword Puzzles Unit IV: Dental Anatomy Crossword Puzzles 1 and 2</p> <p>Part 3: Unit Word Search Puzzles Unit IV: Dental Anatomy</p>

		<p>Word Search Puzzles 1-3</p> <p>Complete Evolve Student Resources Review & Assessment questions 1 - 32. You may work on this for the two weeks you are studying permanent premolars. Feel free to work with a partners or a small group.</p> <p>Week 7 Graded Assignment:</p> <p>In pairs, complete the following exercise. First complete it with just the permanent premolars. Then add all the anterior teeth and the premolars. (You could use technology such as Teams, Zoom, etc.)</p> <p>Using the typodont anterior and premolar teeth, practice properly describing and identifying each tooth as it is randomly selected from the pool of teeth. Answer the following questions:</p> <ol style="list-style-type: none"> 1. Primary or permanent? 2. Succedaneous or nonsuccedaneous? 3. Maxillary or mandibular? 4. Right or left? 5. Anterior or posterior? 6. Type of tooth (incisor, canine, premolar)? 7. Subtype (lateral or central, first, second)? 8. Geometric form of crown from various views? Trapezoid, rhomboid, or triangular 9. Cervical line curvature from various views? <p>Take notes on each tooth. Summarize how you did. What tips helped you determine the correct tooth. Did you find any new tips or hints that will help you determine the correct tooth in the future? Post your summary.</p>
	2. Assign the correct names and universal or	READ – Textbook (pp. 231-233)

	international tooth number for each permanent posterior tooth on a diagram or a skull and for a tooth model or a patient.	<p>Week 8 Graded Assignment:</p> <p>A table of information can be helpful for differentiating the types of teeth with two or more subtypes, such as incisors, premolars, and molars (for example, lateral or central, first or second or even third). Students should work in pairs to design such a table for permanent premolar teeth, highlighting characteristics that allow the observer to distinguish between the permanent premolar teeth, e.g., maxillary and mandibular, and first and second premolars. Include how to distinguish from right or left side.</p>
	3. Demonstrate the correct location of each permanent posterior tooth on a diagram, a skull, and a patient.	<p>READ – Textbook (pp. 231-233)</p> <p>ANSWER – Workbook Structure Identification</p>
	4. Identify the permanent posterior teeth and discuss their properties and the clinical considerations concerning them, integrating it into patient care.	<p>READ – Textbook (pp. 231-233)</p> <ul style="list-style-type: none"> • Clinical Considerations for Permanent Posterior Teeth
	5. Identify the permanent premolars and their general features and discuss their clinical considerations, integrating it into patient care.	<p>READ – Textbook (pp. 233-235)</p> <ul style="list-style-type: none"> • Clinical Considerations for Permanent Premolars
	6. Describe the general and specific features of the permanent maxillary premolars and discuss the	<p>READ – Textbook (pp. 236-241)</p> <ul style="list-style-type: none"> • Clinical Considerations for Permanent Maxillary Premolars

	clinical considerations concerning them, integrating it into patient care.	<ul style="list-style-type: none"> Clinical Considerations for Permanent Maxillary Second Premolars
	7. Describe the general and specific features of the permanent mandibular premolars and discuss the clinical considerations concerning them, integrating it into patient care.	READ – Textbook (pp. 241-247) <ul style="list-style-type: none"> Clinical Considerations for Permanent Mandibular Premolars Clinical Considerations for Permanent Mandibular First Premolars Clinical Considerations for Permanent Mandibular Second Premolars
	Study for Online Exam Ch. 17	READ – Evolve Student Resources Supplemental Considerations ANSWER – Evolve Student Resources <ul style="list-style-type: none"> Review & Assessment Questions 1-32 Tooth Identification Exercises
Due Date: 03/23/25	Assessment for Ch. 17 Permanent Premolars Online Exam 32 points	Online Exam: Study for and take online exam Ch. 17 Permanent Premolars
Weeks 9, 10, & 11 Course Objectives: 1, 3, 4, 5	Objectives Ch. 17 Permanent Molars 8. Identify the permanent molars and their general features and discuss their clinical considerations, integrating it into patient care.	View PPT Ch. 17 Permanent Molars READ – Textbook (pp. 247-249) <ul style="list-style-type: none"> Clinical Considerations for Permanent Molars Week 9 Graded Assignment Remove teeth # 3, 14, 19 & 30 (permanent first molars) from the typodont. Study the crown and root features of each. Using these teeth, create a chart comparing the maxillary and mandibular first molars. As you study each one, highlight facts that will help you determine one permanent molar from the others. Also keep track of how to determine if it a maxillary or mandibular molar and how to determine if it belongs on the left or right side of the mouth. This will be a great study aid for

		<p>you. You will be adding to this chart for the next two weeks.</p> <p>Week 10 Graded Assignment Complete online discussion Pit and Groove Patterns in Posterior Teeth. 8 Points</p> <p>Week 11 Graded Assignment: Scenario 10 points</p>
	<p>9. Describe the general and specific features of the permanent maxillary molars and discuss the clinical considerations concerning them, integrating it into patient <i>care</i>.</p>	<p>READ – Textbook (pp. 249-258)</p> <ul style="list-style-type: none"> • Clinical Considerations for Permanent Maxillary Molars • Clinical Considerations for Permanent Maxillary First Molars • Clinical Considerations for Permanent Maxillary Third Molars
	<p>10. Describe the general and specific features of the permanent mandibular molars and discuss the clinical considerations concerning them, integrating it into patient <i>care</i>.</p>	<p>READ – Textbook (pp. 258-264)</p> <ul style="list-style-type: none"> • Clinical Considerations for Permanent Mandibular Molars • Clinical Considerations for Permanent Mandibular First Molars • Clinical Considerations for Permanent Mandibular Third Molars
	<p>Study for online exam Ch. 17 Permanent Molars</p>	<p>READ – Evolve Student Resources</p> <ul style="list-style-type: none"> • Supplemental Considerations
<p>Due Date: 04/13/2025</p>	<p>Assessment: Ch. 17 Permanent Molars Online Exam 20 Points</p>	<p>Online Exam: Study for and take online exam Ch. 17 Permanent Molars</p>
<p>Weeks 12 & 13</p> <p>Course Objectives: 1, 3, 4, 5</p>	<p>Ch. 18 Primary Dentition Objectives:</p> <p>1. Define and pronounce the key terms in this chapter.</p>	<p>View PPT Ch. 18 Primary Dentition</p> <p>READ – Textbook (pp. 265-274)</p> <p>ANSWER – Workbook Glossary Exercises Part 1: Chapter Word Jumbles Chapter 18: Primary Dentition</p> <p>Part 2: Unit Crossword Puzzles Unit IV: Dental Anatomy Crossword Puzzles 1 and 2</p>

		Part 3: Unit Word Search Puzzles Unit IV: Dental Anatomy Word Search Puzzles 1-3
	2. Assign the correct name and universal number for each primary tooth on a diagram and a patient.	READ – Textbook (p. 268-274) Week 12 Graded Assignment In pairs, take turns playing the role of a child’s supervising adult and then a clinician trying to convince the caregiver that caries in the primary dentition should be restored. Be sure to include the advantages and disadvantages. You can either create a video or write a summary of your discussion. Submit the Graded Assignment. 15 points
	3. Demonstrate the correct location of each primary tooth on a diagram and a patient.	READ – Textbook (p. 268-274) ANSWER – Workbook Structure Identification Exercises Unit IV: Dental Anatomy Chapter 18: Primary Dentition Figure 18.2; Figure 18.3 ANSWER – Evolve Student Resources Tooth Identification Exercises
	4. Discuss primary teeth properties and the clinical considerations for primary dentition, integrating it into patient care.	READ – Textbook (pp. 265-268) Clinical Considerations for Primary Dentition Week 13 Graded Assignment Ch. 18 Read the following scenario. Then using your textbook, answer the following questions. Submit your answers. A patient of record comes in for maintenance care after giving birth 8 months earlier. She is excited about making sure her baby gets the best healthcare. Her child was born at term and had no birth-related complications. She nursed the child until the baby was 6 months old. Her mother-in-law feels that dental care does not start until the “adult” teeth come in and that the “baby” teeth are nothing to be concerned about. Her husband’s family

		<p>uses a pacifier dipped in sugar to calm the baby and puts apple juice in the baby's bottle at night so that the child will sleep through the night. The baby's mother worries that this will harm the baby's teeth, which are starting to come in and which she feels are important to the child's health. She asks many questions about the primary dentition.</p> <ol style="list-style-type: none"> 1. When does the first tooth come in and approximately when is the primary dentition fully erupted? 2. When should the child first be brought to the dental office and what will happen during that appointment? 3. The habits of the husband's family could have what effect on the child's teeth?
	<p>5. Describe the general features of primary teeth and each primary tooth type as well as the specific features of each primary tooth.</p>	READ – Textbook (pp. 268-270)
	<p>6. Discuss the clinical considerations concerning primary molars, integrating it into patient care.</p>	<p>READ – Textbook (pp. 270-274) Clinical Considerations with Primary Molars</p>
	Study for online exam Ch. 18	<p>READ – Evolve Student Resources Supplemental Considerations</p> <p>ANSWER – Evolve Student Resources Review & Assessment Questions 1-17</p>
Due Date: 04/27/2025	Assessment: Exam Ch. 18 Primary Dentition 25 points	Online Exam: Study for and take online exam Ch. 18 Primary Dentition
Weeks 14 & 15 Course Objectives: 1, 2, 6	<p>Ch. 20 Occlusion Objectives:</p> <ol style="list-style-type: none"> 1. Define and pronounce the key terms in this chapter. 	<p>View PPT Ch. 20 Occlusion</p> <p>READ – Textbook (pp. 285-302)</p> <p>ANSWER – Workbook Glossary Exercises Part 1: Chapter Word Jumbles</p>

		<p>Chapter 20: Occlusion</p> <p>Part 2: Unit Crossword Puzzles Unit IV: Dental Anatomy Crossword Puzzles 1 and 2</p> <p>Part 3: Unit Word Search Puzzles Unit IV: Dental Anatomy</p> <p>Word Search Puzzles 1-3</p>
	<p>2. Discuss occlusion and centric occlusion and its relationship to functional movements and patterns of the mandible.</p>	<p>READ – Textbook (pp. 285-287)</p> <p>Week 14 Graded Assignment: Draw the first molar relationships for the following three scenarios:</p> <ul style="list-style-type: none"> ○ Class I mesognathic ○ Class II retrognathic ○ Class III prognathic <p>Submit the Graded Assignment.</p>
	<p>3. Discuss arch form and the phases of arch development.</p>	<p>READ – Textbook (pp. 287-288)</p>
	<p>4. Describe dental curvatures and angulations.</p>	<p>READ – Textbook (pp. 288-290)</p>
	<p>5. Discuss centric relation, lateral and protrusive occlusions, and the mandibular rest position and how to achieve each of them on a skull, a dentition model, and a patient.</p>	<p>READ – Textbook (pp. 290-293)</p>
	<p>6. Demonstrate the movements of the mandible related to occlusion.</p>	<p>READ – Textbook (pp. 290-293)</p>
	<p>7. Discuss primary occlusion and the clinical considerations concerning it, integrating it into patient care.</p>	<p>READ – Textbook (pp. 293-294)</p> <ul style="list-style-type: none"> • Clinical Considerations with Occlusion <p>Week 15 Graded Assignment Complete discussion on Occlusion</p>

	8. Identify the key concepts of occlusion on a diagram, a dentition model, and a patient.	READ – Textbook (pp. 285-294)
	9. Discuss malocclusion and outline Angle classification and how it relates to patient care, including clinical considerations concerning parafunctional habits.	
	10. Identify on dentition models each division of Angle classification of malocclusion.	
	11. Demonstrate an initial occlusal evaluation on a patient and record findings.	READ – Evolve Student Resources <ul style="list-style-type: none"> • Supplemental Considerations ANSWER – Evolve Student Resources <ul style="list-style-type: none"> • Finish Review & Assessment Questions 1-21
Date	Assessment for Ch. 20: Occlusion	Online Exam: Study for online exam Ch. 20 Occlusion which will be included in the final exam.
Week 16 Due Date: 05/13/2025	Final Exam Comprehensive 100 points	Online Final Exam (comprehensive)