



INSTRUCTIONAL PACKAGE

DAT 118

Dental Morphology

201810

Fall/2018

INSTRUCTIONAL PACKAGE

Part I: Course Information

Effective Term: 201810

COURSE PREFIX: DAT 118

CONTACT HOURS: 2

COURSE TITLE: Dental Morphology

CREDIT HOURS: 2

RATIONALE FOR THE COURSE:

This course covers the embryogenesis and histology of human head and neck structures with emphasis placed upon differences between normal, variant, and/or defects of oral structures during the development process. Formation, eruption patterns, and morphology of both primary and permanent dentitions are studied, in addition to the three most recognized methods of dental charting.

COURSE DESCRIPTION:

This course emphasizes the development, eruption, and individual characteristics of each tooth and surrounding structures.

PREREQUISITES:

Admittance into the Expanded Duty Dental Assisting Program

CO-REQUISITES:

DAT 113 Dental Materials

DAT 127 Dental Radiography

DAT 154 Clinical Procedures

DAT 174 Office Rotations

REQUIRED MATERIALS:

Please visit the Bookstore online site for most current textbook information. Use the direct link below to find textbooks.

[BOOKSTORE](#).

TECHNICAL REQUIREMENTS:

Access to Desire2Learn (D2L), HGTC's student portal for course materials.

WaveNet and D2L email access.

CLASSROOM ETIQUETTE:

As a matter of courtesy to other students and your professor, please turn off cell phones and other communication/entertainment devices before class begins. If you are monitoring for an emergency, please notify your professor prior to class and switch cell phone ringers to vibrate.

Please refer to the HGTC Dental Sciences Program Manual for additional policies on classroom etiquette.

Part II: Student Learning Outcomes

COURSE LEARNING OUTCOMES and ASSESSMENTS*:

1. Name and identify normal head, neck, and tooth development, as well as various anomalies associated said structures.
2. Knowledge of fundamental terminology and nomenclature related to specific external and internal morphological characteristics of human dentition.
3. Principal knowledge necessary concerning anatomic and physiologic considerations as it relates to the form and function of human teeth.
4. Describe the embryonic development of the human face, oral cavity, and various pathologic conditions that may arise from improper development.
5. Describe the process of tooth development and eruption.
6. Describe the processes involved in root resorption, the shedding of primary teeth, and then the following replacement of the deciduous dentition by their permanent counterparts.
7. Describe the development and basic histological characteristics of enamel, dentin, dental pulp, cementum, periodontal ligament, and alveolar bone
8. For both the deciduous and permanent dentition, state the name, function, and eruption sequence of each tooth.
9. Discuss the Universal, Palmer, and FDI systems of numbering the teeth; identify a tooth by its number, symbol, alphabetical order, and/or any of stated three, depending on the tooth.
10. List the anatomical characteristics of both the crown and the root for permanent and primary teeth.
11. Describe and identify the ideal and different types of malocclusion using Angle's classification.

Module 1

Material Covered: Ch. 7 Head and Neck Anatomy

Assessment: Test, Homework, Final Exam

Objectives:

1. List and identify the landmarks of the face and the oral cavity, including the tongue, floor of the mouth, and salivary glands.
2. List and identify the bones of the cranium and the face as well as the landmarks on the maxilla and the mandible.
3. Identify the parts of the temporomandibular joint (TMJ) and describe how the joint works.
4. List and identify the muscles of mastication, facial expression, the floor of the mouth, the tongue, the throat, the neck, and the shoulders. Explain their functions.
5. List and identify the nerves of the maxilla and the mandible.
6. List and identify the arteries and veins of the head and the neck.

Module 2

Material Covered: Ch. 8 Embryology and Histology

Assessment: Test, Homework, Final Exam

Objectives:

1. Identify the terms and times of the three prenatal phases of pregnancy.

2. Describe how the human face develops and changes during the zygote and embryonic phases.
3. Describe the life cycle of a tooth and identify the stages.
4. Identify the four primary structures of the tooth and the location and function of each.
5. Identify the substances of enamel, dentin, cementum, and pulp and their identifying marks.
6. Identify the components of the periodontium and the considerations of the alveolar bone.
7. Describe the structures of the gingiva and the mucosa.

Module 3

Material Covered: Ch. 9 Tooth

Assessment: Test, Homework, Final Exam

Objectives:

1. Identify the dental arches and quadrants using the correct terminology.
2. List the primary and permanent teeth by name and location.
3. Explain the eruption schedule for the primary and permanent teeth.
4. Identify the different divisions of the tooth, including clinical and anatomical divisions.
5. Identify the surfaces of each tooth and their locations.
6. List the anatomical structures and their definitions.
7. Describe each permanent tooth according to location, anatomical features, morphology, function, position, and other identifying factors.
8. Describe each deciduous (primary) tooth according to its location, anatomical features, morphology, function, position, and other identifying factors.

Module 4

Material Covered: Ch. 14 Dental Charting

Assessment: Test, Homework, Final Exam

Objectives:

1. Explain why charting is used in dental practices.
2. Identify charts that use symbols to represent conditions in the oral cavity.
3. List and explain the systems used for charting the permanent and deciduous dentitions.
4. Define G.V. Black's six classifications of cavity preparations.
5. List common abbreviations used to identify simple, compound, and complex cavities.
6. Describe basic dental charting terminology.
7. Explain color indicators and identify charting symbols.

****Students – please refer to the Instructor's Course Information sheet for specific information on assessments and due dates.***

Part III: Grading and Assessment

EVALUATION OF REQUIRED COURSE MEASURES/ARTIFACTS*

Students' performance will be assessed and the weight associated with the various measures/artifacts are listed below.

EVALUATION*

Tests	60%
Homework Assignments	20%
Final Exam	20%
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	100%

****Students, for the specific number and type of evaluations, please refer to the Instructor's Course Information Sheet.***

GRADING SYSTEM:

A=90%-100%

B=80%-89%

C=77%-79%

D=70%-76%

F=69% and below

*Students must pass with a 77% or better to continue in this program.

Grades earned in courses impact academic progression and financial aid status. Before withdrawing from a course, be sure to talk with your instructor and financial aid counselor about the implications of that course of action. Ds, Fs, Ws, WFs and Is also negatively impact academic progression and financial aid status.

The Add/Drop Period is the first 5 days of the semester for **full term** classes. Add/Drop periods are shorter for accelerated format courses. Please refer to the academic calendar for deadlines for add/drop ([ACADEMIC CALENDAR](#)). You must attend at least one meeting of all of your classes during that period. If you do not, you will be dropped from the course(s) and your Financial Aid will be reduced accordingly.

Part IV: Attendance

Horry-Georgetown Technical College maintains a general attendance policy requiring students to be present for a minimum of eighty percent (80%) of his or her classes in order to be eligible to receive credit for any course. However, due to the varied nature of courses taught at the College, a more rigid attendance policy may be required by individual instructors. At a minimum, a student may be withdrawn from a course(s) after he or she has been absent in excess of ten percent (10%) of the total contact hours for a course. **Instructors define absentee limits for their class at the beginning of each term; please refer to the Instructor Course Information Sheet.**

Please refer to the HGTC Dental Sciences Program Manual for additional policies on attendance.

Part V: Student Resources



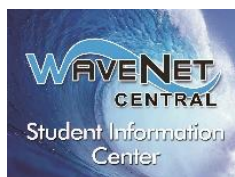
The Student Success and Tutoring Center (SSTC)

The SSTC offers to all students the following **free** resources:

1. **Academic coaches** for most subject areas, **Writing Center Support**, and **college success skills**.
2. **On-line student success and academic support resources**.

Visit the SSTC website: [Student Success & Tutoring Center](#) and visit the student services tab in your WaveNet account to schedule appointments using TutorTrac. For more information, call: SSTC Conway, 349-7872; SSTC Grand Strand, 477-2113; and SSTC Georgetown, 520-1455.

Room locations and Live Chat is available on the SSTC website.



Student Information Center: WaveNet Central (WNC)

WNC offers to all students the following **free** resources:

1. **Getting around HGTC:** General information and guidance for enrollment!
2. Use the [Online Resource Center \(ORC\)](#) for COMPASS support, technology education, and online tools.
3. **Drop-in technology support or scheduled training** in the Center or in class.
4. **In-person workshops, online tutorials and more services** are available.

Visit the WNC website: [Wavenet Central](#). Live Chat and Center locations are posted on the website. Or please call one of the following locations: WNC Conway, 349-5182; WNC Grand Strand, 477-2076; and WNC Georgetown, 520-1473.

Disability Services:

HGTC is committed to providing an accessible environment for students with disabilities. Inquiries may be directed to Jocelyn Williams, Director of Student Development on the Conway Campus Jaime Davis, Counselor/Advisor on the Georgetown Campus or Kristin Griffin, Counselor on the Grand Strand Campus. These individuals will review documentation of the student's disability and, in a confidential setting with the student, develop an educational accommodation plan.

Note: It is the student’s responsibility to self-identify as needing accommodations and to provide acceptable documentation. After a student has self-identified and submitted documentation of a disability, accommodations may be determined, accepted, and provided.

Statement of Equal Opportunity/Non-Discrimination Statement

Horry Georgetown Technical College prohibits discrimination and harassment, including sexual harassment and abuse, on the basis of race, color, gender, national or ethnic origin, age, religion, disability, marital status, veteran status, sexual orientation, gender identity, or pregnancy in educational programs and/or activities.

Title IX Requirements

Horry Georgetown Technical College prohibits the offenses of domestic violence, dating violence, sexual assault, and stalking. Any student who believe he or she has experienced or witnessed discrimination including sexual harassment, domestic violence, dating violence, sexual assault or stalking is encouraged to report such incidents to one of the College’s Title IX Coordinators.

*Faculty and Staff are required to report incidents to the Title IX Coordinators when involving students. The only HGTC employees exempt from mandatory reporting are licensed mental health professionals (only as part of their job description such as counseling services).

Inquiries regarding the non-discrimination policies:	
Student and prospective student inquiries concerning Section 504, Title II, and Title IX and their application to the College or any student decision may be directed to the Associate Vice President for Student Affairs.	Employee and applicant inquiries concerning Section 504, Title II, and Title IX and their application to the College may be directed to the Associate Vice President for Human Resources.
Dr. Melissa Batten, AVP Student Affairs <i>Title IX Coordinator</i> Building 1100, Room 107A, Conway Campus PO Box 261966, Conway, SC 29528-6066 843-349-5228 Melissa.Batten@hgtc.edu	Jacquelyne Snyder, AVP Human Resources <i>Section 504, Title II, and Title IX Coordinator</i> Building 200, Room 212A, Conway Campus PO Box 261966, Conway, SC 29528-6066 843-349-5212 Jacquelyne.Snyder@hgtc.edu