



INSTRUCTIONAL PACKAGE

DAT 118
Dental Morphology

Effective Term
Fall 2022/Spring 2023/Summer 2023

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Part I: Course Information

Effective Term: Fall 2022

COURSE PREFIX: DAT118

COURSE TITLE: Dental Morphology

CONTACT HOURS: 2

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/CO-REQUISITES:

PREREQUISITES:

Admittance into the Expanded Duty Dental Assisting Program

CO-REQUISITES:

DAT 127 Dental Radiography

DAT 113 Dental Materials

DAT 154 Clinical Procedures

DAT 174 Office Rotations

***Online/Hybrid** courses require students to complete the [DLi Orientation Video](#) prior to enrolling in an online course.

REQUIRED MATERIALS:

Please visit the [BOOKSTORE](#) online site for most current textbook information.

Enter the semester, course prefix, number and section when prompted and you will be linked to the correct textbook.

TECHNICAL REQUIREMENTS:

Access to Desire2Learn (D2L), HGTC's student portal for course materials.
myHGTC and college email access.

STUDENT IDENTIFICATION VERIFICATION:

Students enrolled in online courses will be required to participate in a minimum of one (1) proctored assignment and/or one (1) virtual event to support student identification verification. Please refer to your Instructor Information Sheet for information regarding this requirement.

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*:

- Name and identify normal head, neck, and tooth development, as well as various anomalies associated said structures.
- Knowledge of fundamental terminology and nomenclature related to specific external and internal morphological characteristics of human dentition.
- Principal knowledge necessary concerning anatomic and physiologic considerations as it relates to the form and function of human teeth.
- Describe the embryonic development of the human face, oral cavity, and various pathologic conditions that may arise from improper development.
- Describe the process of tooth development and eruption.
- 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.
- Describe the development and basic histological characteristics of enamel, dentin, dental pulp, cementum, periodontal ligament, and alveolar bone
- For both the deciduous and permanent dentition, state the name, function, and eruption sequence of each tooth.
- 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.
- List the anatomical characteristics of both the crown and the root for permanent and primary teeth.
- Describe and identify the ideal and different types of malocclusion using Angle's classification.

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

GENERAL EDUCATION OUTCOMES:

LECTURE LEARNING OUTCOMES

Module 1

Material Covered: Ch. 5 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. 6 Landmarks of the face and oral cavity

Assessment: Test, Homework, Final Exam

Objectives:

Identify landmarks in each region of the face

Identify landmarks in the oral cavity

List the structures in each division of the oral cavity

Discuss the soft tissues that surround the dentition

Identify all key terms listed in the chapter

Module 3

Material Covered: Ch. 7 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 4

Material Covered: Ch. 8 Dental Anatomy

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 5

Material Covered: Supplemental material

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.

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	50%
Quizzes	20%
Homework Assignments	10%
Final Exam	20%

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

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. 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 80 percent (80%) of their classes in order to receive credit for any course. Due to the varied nature of courses taught at the college, some faculty may require up to 90 percent (90%) attendance. Pursuant to 34 Code of Federal Regulations 228.22 - Return to Title IV Funds, once a student has missed over 20% of the course or has missed two (2) consecutive weeks, the faculty is obligated to withdraw the student and a student may not be permitted to reenroll. **Instructors define absentee limits for their class at the beginning of each term; please refer to the Instructor Course Information Sheet.**

For online and hybrid courses, check your Instructor's Course Information Sheet for any required on-site meeting times. Please note, instructors may require tests to be taken at approved testing sites, and if you use a testing center other than those provided by HGTC, the center may charge a fee for its services.

Part V: Student Resources



THE STUDENT SUCCESS AND TUTORING CENTER (SSTC):

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

1. **Academic tutors** for most subject areas, **Writing Center support**, and **college success skills**.
2. Online **tutoring** and academic support resources.
3. Professional and interpersonal communication **coaching** in the EPIC Labs.

Visit the [Student Success & Tutoring Center](#) website for more information. To schedule tutoring, contact the SSTC at sstc@hgtc.edu or self-schedule in the Penji iOS/Android app or at www.penjiapp.com. Email sstc@hgtc.edu or call SSTC Conway, 349-7872; SSTC Grand Strand, 477-2113; and SSTC

Georgetown, 520-1455, or go to the [Online Resource Center](#) to access on-demand resources.



STUDENT INFORMATION CENTER: TECH Central

TECH Central offers to all students the following free resources:

1. **Getting around HGTC:** General information and guidance for enrollment, financial aid, registration, and payment plan support!
2. Use the [Online Resource Center \(ORC\)](#) including Office 365 support, password resets, and username information.
3. **In-person workshops, online tutorials and more services** are available in Desire2Learn, Student Portal, Degree Works, and Office 365.
4. **Chat with our staff on TECH Talk**, our live chat service. TECH Talk can be accessed on the student portal and on TECH Central's website, or by texting questions to (843) 375-8552.

Visit the [Tech Central](#) website for more information. Live Chat and Center locations are posted on the website. Or please call (843) 349 – TECH (8324), Option #1.

STUDENT TESTING:

The **Instructor Information Sheet** will have more details on test requirements for your course.

DISABILITY SERVICES:

HGTC is committed to providing an accessible environment for students with disabilities. Inquiries may be directed to HGTC's [Accessibility and Disability Service webpage](#). The Accessibility and Disability staff 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, sex, national or ethnic origin, age, religion, disability, marital or family status, veteran status, political ideas, sexual orientation, gender identity, or pregnancy, childbirth, or related medical conditions, including, but not limited to, lactation in educational programs and/or activities.

TITLE IX REQUIREMENTS:

All students (as well as other persons) at Horry-Georgetown Technical College are protected by Title IX—regardless of their sex, sexual orientation, gender identity, part- or full-time status, disability, race,

or national origin—in all aspects of educational programs and activities. Any student, or other member of the college community, who believes that he/she is or has been a victim of sexual harassment or sexual violence may file a report with the college's Chief Student Services Officer, campus law enforcement, or with the college's Title IX Coordinator, or designee.

*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/TITLE IX 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 Vice President for Student Affairs.

Dr. Melissa Batten, VP Student Affairs

Title IX Coordinator

Building 1100, Room 107A, Conway Campus

PO Box 261966, Conway, SC 29528-6066

843-349-5228

Melissa.Batten@hgtc.edu

Employee and applicant inquiries concerning Section 504, Title II, and Title IX and their application to the College may be directed to the Vice President for Human Resources.

Jacquelyne Snyder, VP Human Resources

EEO and Title IX Coordinator

Building 200, Room 212A, Conway Campus

PO Box 261966, Conway, SC 29528-6066

843-349-5212

Jacquelyne.Snyder@hgtc.edu