



## INSTRUCTIONAL PACKAGE

AHS 113

Head and Neck Anatomy

201810  
Fall/2018

# INSTRUCTIONAL PACKAGE

## Part I: Course Information

Effective Term: 201810

COURSE PREFIX: AHS 113

CONTACT HOURS: 1

COURSE TITLE: Head and Neck Anatomy

CREDIT HOURS: 1

### **RATIONALE FOR THE COURSE:**

At the completion of this course, the student will be able to:

1. Identify and name the bones of the human skull.
2. Identify major landmarks of the skull.
3. Identify the muscles of mastication and describe their origin, insertion, and function.
4. Identify the components of the temporomandibular joint and their function.
5. Identify and name the muscles of the tongue.
6. Identify the muscles of facial expression.
7. Identify the cranial nerves.
8. Identify the arteries and veins that supply the head and neck.
9. Describe the location and ducts of the major salivary glands.

### **COURSE DESCRIPTION:**

This course provides a detailed study of the structure of the head and neck with special emphasis on structure as it pertains to the study of dental science.

### **PREREQUISITES:**

Admittance into the Dental Hygiene Program

### **CO-REQUISITES:**

DHG 125 Tooth Morphology & Histology

DHG 151 Dental Hygiene Principles

### **REQUIRED MATERIALS:**

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

[BOOKSTORE](#).

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.

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.

\*Refer to the HGTC Dental Sciences Program Manual for additional policies on classroom etiquette.

## **Part II: Student Learning Outcomes**

### **COURSE LEARNING OUTCOMES and ASSESSMENTS\*:**

#### **Module 1**

**Materials Covered:** *Fehrenbach & Herring*, Ch. 1 Introduction to Head and Neck Anatomy

**Assessments:** Quizzes, Tests, Final Exam

#### **Objectives:**

1. Define and pronounce the key terms and anatomic terms in this chapter.
2. Discuss the clinical applications of head and neck anatomy by dental professionals.
3. Discuss anatomic variation and how it applies to head and neck structures.
4. Correctly complete the review questions and activities for this chapter.
5. Apply the correct anatomic nomenclature during dental clinical procedures.

#### **Module 2**

**Materials Covered:** *Fehrenbach & Herring*, Ch. 2 Surface Anatomy

**Assessments:** Quizzes, Tests, Final Exam

#### **Objectives:**

1. Define and pronounce the key terms and anatomic terms in this chapter.
2. Discuss how the surface anatomy of the face and neck may impact dental clinical procedures.
3. Locate and identify the regions and associated surface landmarks of the head and neck on a diagram and a patient.
4. Correctly complete the review questions and activities for this chapter.
5. Integrate an understanding of surface anatomy into the clinical practice of dental procedures

#### **Module 3**

**Materials Covered:** *Fehrenbach & Herring*, Ch. 3 Skeletal System

**Assessments:** Quizzes, Tests, Final Exam

#### **Objectives:**

1. Define and pronounce the key terms and anatomic terms in this chapter.
2. Locate and identify the bones of the head and neck and their landmarks on a diagram, skull, and patient.
3. Describe in detail the landmarks of the maxilla and mandible.
4. Discuss the skeletal system pathology associated with the head and neck.
5. Correctly complete the review questions and activities for this chapter.
6. Integrate an understanding of the skeletal system into the overall study of the head and neck anatomy and clinical dental practice

#### **Module 4**

**Materials Covered:** *Fehrenbach & Herring*, Ch. Muscular System

**Assessments:** Quizzes, Tests, Final Exam

**Objectives:**

1. Define and pronounce the key terms and anatomic terms in this chapter.
2. Locate and identify the muscles of the head and neck on a diagram, skull, and patient.
3. Describe the origin, insertion, action, and innervation of each muscle of the head and neck.
4. Discuss the processes of mastication, speech, and swallowing with regard to anatomic considerations involving the muscles of the head and neck.
5. Discuss the pathology associated with the muscles of the head and neck.
6. Correctly complete the review questions and activities for this chapter.
7. Integrate an understanding of the muscles of the head and neck into the clinical dental practice.

**Module 5**

**Materials Covered:** *Fehrenbach & Herring*, Ch. 5 Temporomandibular Joint

**Assessments:** Quizzes, Tests, Final Exam

**Objectives:**

1. Define and pronounce the key terms and anatomic terms in this chapter.
2. Locate and identify the landmarks of the temporomandibular joint on a diagram, skull, and patient.
3. Describe the movements of the temporomandibular joint and their relationship with the muscles in the head and neck region.
4. Discuss temporomandibular joint pathology and related patient care.
5. Correctly complete the review questions and activities for this chapter.
6. Integrate an understanding of the anatomy of the temporomandibular joint into clinical dental practice.

**Module 6**

**Materials Covered:** *Fehrenbach & Herring*, Ch. 6 Vascular System

**Assessments:** Quizzes, Tests, Final Exam

**Objectives:**

1. Define and pronounce the key terms and anatomic terms in this chapter.
2. Identify and trace the routes of the blood vessels of the head and neck on a diagram, skull, and patient.
3. Discuss the vascular system pathology associated with the head and neck region.
4. Correctly complete the review questions and activities for this chapter.
5. Integrate an understanding of the head and neck blood supply into clinical dental practice.

**Module 7**

**Materials Covered:** *Fehrenbach & Herring*, Ch. Glandular Tissue

**Assessments:** Quizzes, Tests, Final Exam

**Objectives:**

1. Define and pronounce the key terms and anatomic terms in this chapter.
2. Locate and identify the glands and associated structures in the head and neck on a diagram, skull, and patient.
3. Discuss the glandular pathology associated with the head and neck.
4. Correctly complete the review questions and activities for this chapter.

5. Integrate an understanding of the head and neck glands during clinical dental practice.

### **Module 8**

**Materials Covered:** *Fehrenbach & Herring*, Ch. Nervous System

**Assessments:** Quizzes, Tests, Final Exam

#### **Objectives:**

1. Define and pronounce the key terms and anatomic terms in this chapter.
2. Describe the components of the nervous system and outline the actions of nerves.
3. Discuss the divisions of the central and peripheral nervous systems.
4. Identify and trace the routes of the cranial nerves on a diagram and skull.
5. Discuss the structure innervated by each of the cranial nerves.
6. Identify and trace the routes of the nerves to the oral cavity and associated structures of the head and neck on a diagram, skull, and patient.
7. Describe the structures innervated by each of the nerves of the head and neck.
8. Discuss the nervous system pathology associated with the head and neck region.
9. Correctly complete the review questions and activities for this chapter.
6. Integrate an understanding of head and neck nerves into clinical dental practice.

### **Module 9**

**Materials Covered:** *Fehrenbach & Herring*, Ch. 9 Anatomy of Local Anesthesia

**Assessments:** Quizzes, Tests, Final Exam

#### **Objectives:**

1. Define and pronounce the key terms and anatomic terms in this chapter.
2. List the tissue and structures anesthetized by each type of local anesthetic injection and describe the related target areas.
3. Locate and identify the anatomic structures used to determine injection site for the needle for each type of local anesthetic injection on a skull and a patient.
4. Demonstrate the correct placement for the needle for each type of local anesthetic injection on a skull and a patient.
5. Identify the tissue involved during the insertion of the needle for each type of local anesthetic injection.
6. Discuss the indications of clinically effective anesthesia and possible complications associated with anatomic considerations for each type of injection.
7. Correctly complete the review questions and activities for this chapter.
8. Integrate an understanding of the anatomy of the trigeminal nerve and associated tissue into the administration of local anesthesia in clinical dental practice.

### **Module 10**

**Materials Covered:** *Fehrenbach & Herring*, Ch. Lymphatic System

**Assessments:** Quizzes, Tests, Final Exam

#### **Objectives:**

1. Define and pronounce the key terms and anatomic terms in this chapter.
2. List and discuss the lymphatic system and its components.
3. Locate and identify the lymph nodes of the head and neck on a diagram and patient.
4. Locate and identify the tonsils of the head and neck on a diagram and patient.
5. Identify the lymphatic drainage patterns for the head and neck.

6. Describe and discuss pathology of lymphoid tissue associated with the head and neck.
7. Correctly complete the review questions and activities for this chapter.
8. Integrate an understanding of the head and neck lymphatic system into clinical dental practice.

**Module 11**

**Materials Covered:** *Fehrenbach & Herring*, Ch. Fasciae and Spaces

**Assessments:** Quizzes, Tests, Final Exam

**Objectives:**

1. Define and pronounce the key terms and anatomic terms in this chapter.
2. Locate and identify the fasciae of the head and neck on a diagram, skull, and patient.
3. Locate and identify the major spaces of the head and neck on a diagram, skull, and patient.
4. Discuss the communication between the major spaces of the head and neck.
5. Correctly complete the review questions and activities for this chapter.
6. Integrate an understanding of fasciae and spaces into the overall study of head and neck anatomy as well as a clinical dental practice.

**Module 12**

**Materials Covered:** *Fehrenbach & Herring*, Ch. 12 Spread of Infection

**Assessments:** Quizzes, Tests, Final Exam

**Objectives:**

1. Define and pronounce the key terms and anatomic terms in this chapter.
2. Discuss the spread of odontogenic infection to the sinuses and by the vascular system, lymphatic system, and spaces in the head and neck region.
3. Trace the routes of odontogenic infection in the head and neck region on a diagram, skull, and patient.
4. Discuss the complications that can occur with the spread of odontogenic infection in the head and neck region.
5. Discuss the prevention of the spread of odontogenic infection during patient dental care.
6. Correctly complete the review questions and activities for this chapter.
7. Integrate an understanding of the anatomic considerations for the spread of odontogenic infection into clinical dental practice.

***\*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\***

Quizzes	30%
Tests	60%
Final Exam	10%
	<hr/>
	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 higher to continue in the Dental Hygiene 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.**

\*Refer to the HGTC Dental Sciences Program Manual for additional information on attendance.

## **Part V: Student Resources**



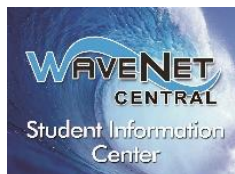
### **The Student Success and Tutoring Center (SSTC)**

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).

<b>Inquiries regarding the non-discrimination policies:</b>	
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.
<p><b>Dr. Melissa Batten, AVP Student Affairs</b>  <i>Title IX Coordinator</i></p> <p>Building 1100, Room 107A, Conway Campus            PO Box 261966, Conway, SC 29528-6066            843-349-5228  <a href="mailto:Melissa.Batten@hgtc.edu">Melissa.Batten@hgtc.edu</a></p>	<p><b>Jacquelyne Snyder, AVP Human Resources</b>  <i>Section 504, Title II, and Title IX Coordinator</i></p> <p>Building 200, Room 212A, Conway Campus            PO Box 261966, Conway, SC 29528-6066            843-349-5212  <a href="mailto:Jacquelyne.Snyder@hgtc.edu">Jacquelyne.Snyder@hgtc.edu</a></p>