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CAMOSUN COLLEGE



OSUN School of Health and Human Services (HHS)

LEGE Department: Dental Programs – Dental Hygiene

DHYG 219 Head and Neck Anatomy Fall 2019

COURSE OUTLINE

The course description is available on the web: http://camosun.ca/learn/calendar/current/web/dhyg.html#dhyg219

 Ω Please note: This outline will not be kept indefinitely. It is recommended students keep this outline for their records, especially to assist in transfer credit to post-secondary institutions.

1. Instructor Information

(a) Instructor Amber Chamut

(b) Office hours Monday 12pm-2pm or by appointment

(c) Location D003

(d) Phone 250-370-3193 Alternative: NA

(e) E-mail chamuta@camosun.bc.ca

(f) Website D2L

2. Course Description & Intended Learning Outcomes

Students are introduced to anatomical and physiological features of the head and neck region including oral and periodontal anatomy. The course focus is on the healthy/normal continuum that provides the foundation for clinical dental hygiene practice as well as for further study.

Upon successful completion of this course a student will be able to:

- a) use dental and anatomical terms in order to complete effective intra and extra oral exams and provide descriptions of findings.
- b) identify features of the soft and hard tissues that relate to the identification and differentiation of landmarks and demonstrate understanding of the periodontium in order to identify individual client needs.
- c) describe normal head and neck anatomy and physiology in order to identify abnormal function, to provide a foundation for clinical dental hygiene.

3. Required Materials

(a) Texts:

Fehrenbach, M.J., Herring, S. W. (2017). Illustrated anatomy of the head and neck. 5th Ed. St Louis Missouri: Elsevier

Fehrenbach, M.J., Popowics. (2016). Illustrated dental embryology, histology, and anatomy. 4th Ed. Missouri: Elsevier Saunders

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DHYG 219 Head and Neck Anatomy Workbook/Manual will be available through Camosun College Bookstore. Power points and additional course materials will be posted on the D2L site after the course commences.

4. Course Content and Schedule

Course Elements

 Identify and describe structures, landmarks and anatomical relationships of the skull using appropriate teminology.
 ☐ Using anatomical terminology describe directional relationships of structures and landmarks associated with body planes and head and neck anatomy. ☐ Discuss the structure, function and location of major bones and bony landmarks of the skull (cranium), facial bones and cervical vertebrae. ☐ Identify and relate structure to function of the soft and hard tissues associated with the temporomandibular joint (TMJ) ☐ Name sutures and the bones associated with them.
2. Identify normal anatomical structures and landmarks associated with head and neck intra-oral and extra-oral anatomy and explain their location and function.
 □ Identify and describe normal intra-oral structures that are commonly seen or palpated during a clinical assessment including: surfaces and structures associated with the tongue, the floor of the mouth, tonsils and associated soft tissue structures in the oropharynx, the hard and soft palates. the alveolar ridges (this list is not conclusive). □ Identify and describe normal extra-oral structures that are commonly seen or palpated during an extra-oral examination including: lymph nodes, the external ear, the face, and the neck.
3. Discuss components of the periodontium and describe structure and function of each including hard tooth tissues.
 ☐ Identify the names and locations of tissues that make up the teeth. ☐ Describe the anatomical divisions of the gingiva and explain characteristics of each including clinical appearance and underlying structures associated with healthy gingiva. ☐ Describe the blood supply, innervation and lymphatic drainage of the gingiva. ☐ Describe the periodontal ligament including structure, function, fiber arrangement, blood supply and innervation ☐ Describe structure, composition and functions of cementum including cementoenamel junction (CEJ). ☐ Discuss structure and function of the alveolar bone, including types of bone present. ☐ Explain the morphology of normal alveolar bone in relation to the teeth and in edentulism. ☐ Describe the terms dehiscence and fenestration in relation to alveolar bone.
4. Describe the structure and function of the soft and hard tissues associated with the temporomandibular (TMJ) joint.
 ☐ Identify the anatomical components of the TMJ and describe their relationship associtated with function during rest and during occlusal movements ☐ Describe the feel and sound of a normal versus abnormal functioning TMJ and have a basic understanding of clinical signs and symptoms associated with minor TMJ disorders.

	awareness of dental hygiene considerations associated with TMJ disorders relevant oral examination.
5. Identify the mu	scles of the head and neck including location and function.
innervation o tongue, hyo ☐ Categorize the	scribe muscles of the head and neck including the origin, insertion, action and of the muscles of mastication, facial expression, soft palate, floor of the mouth, id and associated neck structures. e muscles in their roles in the above areas and discuss the function of each. uscle groups and actions of each that are associated with swallowing.
6. Identify a	nd describe nerves of the head and neck region.
and the gen ☐ Describe the ☐ Describe in de	ic function of the central nervous system (CNS), the peripheral nervous system (PNS), eral function of the autonomic nervous system. 12 cranial nerves, their distribution and general function. 13 etail the pathway of the trigeminal (V) nerve, identifying each branch and their in relation to motor and sensory function. 14 nerves and pathways involved in parasympathetic innervation to the major salivary eral innervation and taste sensation to the tongue. 15 ervation of teeth and associated periodontium. 16 ifferentiate the main branches of the facial (VII) nerve including their function.
7. Identify an head and i	nd describe blood supply, lymphatic structures and fascial spaces of the neck.
☐ Identify blood ☐ Describe path ☐ Describe the o ☐ Identify the na the oral cavi ☐ Explain the sti neck regio ☐ Explain lymph ☐ Describe prim ☐Explain the ge	supply to the dental and associated oral tissues. It way and branches of the internal carotid artery and identify tissues supplied. It way and branches of the internal carotid artery and identify tissues supplied. It was a training the venous drainage system of the head and neck. It was of the vessels and describe the pathway of the venous return from the teeth and ity to the heart. It was tructure, function and location of the lymphatic system located in the head and on. It was tructured and the head and neck, including the the teeth and periodontium. It was tructured and tertiary nodes and discuss their significance. It was tructured and function of fascial spaces in the head and neck region. It is a supplied by the external carotid artery.
8. Describe t	ho naranaeal cinueae
	ne paranasai sinuses.

9. Describe salivary glands and explain breath odor.

☐ Describe the location and function of the major and minor salivary glands.
☐ Describe types, compositions and charactistics of saliva of the various glands.
☐ Define and describe the terms antisialogogue, sialogogue, xerostomia, and ropy saliva.
☐ Describe halitosis and discuss common etiologies as identified through evidence based researc
(oral and non-oral).

Class hours: 4 hours per week x 14 weeks

5. Basis of Student Assessment (Weighting)

(a) Assignments- none

(b) Tests- 2 term tests: Test #1 30% Test #2 30% (c) Final Exam 40%

6. Grading System

Standard Grading System (GPA)

Competency Based Grading System

7. Recommended Materials to Assist Students to Succeed Throughout the Course

Available on D2L

8. College Supports, Services and Policies

Immediate, Urgent, or Emergency Support



If you or someone you know requires immediate, urgent, or emergency support (e.g., illness, injury, thoughts of suicide, sexual assault, etc.), **SEEK HELP**. Resource contacts: http://camosun.ca/about/mental-health/emergency.html or http://camosun.ca/services/sexual-violence/qet-support.html#urgent

College Services

Camosun offers a variety of health and academic support services, including counselling, dental, centre for accessibility, help centre, learning skills, sexual violence support & education, library, and writing centre. For more information on each of these services, visit Student Services at http://camosun.ca/services/

College Policies

Policies are available on the College website at http://camosun.ca/about/policies/

Camosun strives to provide clear, transparent, and easily accessible policies that exemplify the college's commitment to life-changing learning. It is the student's responsibility to become familiar with the content of College policies.

Education and academic policies include, but are not limited to, <u>Academic Progress</u>, <u>Admission</u>, <u>Course Withdrawals</u>, <u>Student Appeals</u>, Medical/Compassionate Withdrawal, Sexual Violence and Misconduct, Student Ancillary Fees, and Student Penalties and Fines.

Student Conduct Policy

There is a <u>Student Conduct Policy</u>. It is the student's responsibility to become familiar with the content of this policy. The policy is available in each School Administration Office, Registration, and on the College website.

A. GRADING SYSTEMS

http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf#page=2

The following two grading systems are used at Camosun College:

1. Standard Grading System (GPA)

Percentage	Grade	Description	Grade Point Equivalency
90-100	A+		9
85-89	А		8
80-84	A-		7
77-79	B+		6
73-76	В		5
70-72	B-	Minimum passing grade for Dental courses	4
65-69	C+		3
60-64	С		2
50-59	D		1
0-49	F		0

2. Competency Based Grading System (Non GPA)

This grading system is based on satisfactory acquisition of defined skills or successful completion of the course learning outcomes.

Grade	Description
СОМ	The student has met the goals, criteria, or competencies established for this course practicum or field placement.
DST	The student has met and exceeded, above and beyond expectation, the goals, criteria, or competencies established for this course, practicum or field placement.
NC	The student has not met the goals, criteria or competencies established for this course, practicum or field placement.

B. Temporary Grades

Temporary grades are assigned for specific circumstances and will convert to a final grade according to the grading scheme being used in the course. See Grading Policy at http://www.camosun.bc.ca/policies/E-1.5.pdf#page=4 for information on conversion to final grades, and for additional information on student record and transcript notations.

Temporary Grade	Description
I	Incomplete: A temporary grade assigned when the requirements of a course have not yet been completed due to hardship or extenuating circumstances, such as illness or death in the family.
IP	In progress: A temporary grade assigned for courses that are designed to have an anticipated enrollment that extends beyond one term. No more than two IP grades will be assigned for the same course.

CW

Compulsory Withdrawal: A temporary grade assigned by a Dean when an instructor, after documenting the prescriptive strategies applied and consulting with peers, deems that a student is unsafe to self or others and must be removed from the lab, practicum, worksite, or field placement.