

COURSE SYLLABUS



COURSE TITLE: DHYG 219 Head & Neck Anatomy

CLASS SECTION: X01

TERM: F2024

COURSE CREDITS: 3.0

DELIVERY METHOD(S): Lecture

Camosun College campuses are located on the traditional territories of the Ləkʷəŋən and W̱SÁNEĆ peoples. We acknowledge their welcome and graciousness to the students who seek knowledge here. Learn more about Camosun's [Territorial Acknowledgement](#).

INSTRUCTOR DETAILS

NAME: Jacqueline Guyader

EMAIL: guyader@camosun.ca

OFFICE: Dental 111

HOURS: By appointment

As your course instructor, I endeavour to provide an inclusive learning environment. However, if you experience barriers to learning in this course, do not hesitate to discuss them with me. Camosun College is committed to identifying and removing institutional and social barriers that prevent access and impede success.

CALENDAR DESCRIPTION

Students will study anatomy and physiology of the head and neck region, including oral and periodontal anatomy. The students will study the continuum between healthy/normal and unhealthy/abnormal anatomy and physiology.

PREREQUISITE(S): n/a

CO-REQUISITE(S): n/a

PRE/CO-REQUISITE(S): n/a

COURSE DELIVERY

ACTIVITY	HOURS / WEEK	# OF WEEKS	ACTIVITY HOURS
Lecture	4	15	60
Seminar			
Lab / Collaborative Learning			
Supervised Field Practice			
Workplace Integrated Learning			
Online			
	TOTAL HOURS		60

COURSE LEARNING OUTCOMES / OBJECTIVES

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

1. Use dental and anatomical terminology in order to describe the structures of the head and neck, complete effective intra and extra oral exams, and provide descriptions of findings.
2. Identify features of the soft and hard tissues that relate to the identification and differentiation of landmarks and demonstrate understanding relevant to the provision of dental hygiene care.
3. Describe normal and abnormal head and neck anatomy and physiology in order to identify abnormal function, to provide a foundation for clinical dental hygiene.

REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

Fehrenbach, M.J., & Herring, S.W. (2021). *Illustrated anatomy of the head and neck* (6th ed.). Elsevier.
Fehrenbach, M.J., & Popowics, T. (2020). *Illustrated dental embryology, histology and anatomy*. (5th ed.). Elsevier.

DHYG 219 Course Package: Head and Neck Anatomy Workbook/Manual – available through Camosun College Bookstore.

COURSE SCHEDULE, TOPICS, AND ASSOCIATED PREPARATION / ACTIVITY / EVALUATION

The following schedule and course components are subject to change with reasonable advance notice, as deemed appropriate by the instructor.

Lectures:	Wednesdays	3:00-4:50 pm	Dental 015
	Fridays	8:00-9:50 am	Dental 015

The weekly schedule will be posted on D2L.

The following are the topics associated with each high-level Course Learning Outcome.

- 1. Use dental and anatomical terminology in order to describe the structures of the head and neck, complete effective intra and extra oral exams, and provide descriptions of findings:**
 - a. Using anatomical terminology describe directional relationships of structures and landmarks associated with body planes and head and neck anatomy.
 - b. Define common anatomical prefixes and suffixes.
 - c. Discuss the structure, function and location of major bones and bony landmarks of the skull (cranium), facial bones and cervical vertebrae.
 - d. Name sutures and the bones associated with them.
 - e. 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).

- f. 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.
2. Identify features of the soft and hard tissues that relate to the identification and differentiation of landmarks and demonstrate understanding relevant to the provision of dental hygiene care:
 - a. 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 cemento-enamel 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.
 - b. Identify the muscles of the head and neck including location and function.
 - Name and describe muscles of the head and neck including the origin, insertion, action and innervation of the muscles of mastication, facial expression, soft palate, floor of the mouth, tongue, hyoid and associated neck structures
 - Categorize the muscles in their roles in the above areas and discuss the function of each.
 - Identify the muscle groups and actions of each that are associated with swallowing.
 - c. Identify and describe nerves of the head and neck region.
 - Describe basic function of the central nervous system (CNS), the peripheral nervous system (PNS), and the general function of the autonomic nervous system.
 - Describe the 12 cranial nerves, their distribution and general function.
 - Describe in detail the pathway of the trigeminal (V) nerve, identifying each branch and their distribution in relation to motor and sensory function.
 - Describe the nerves and pathways involved in parasympathetic innervation to the major salivary glands.
 - Describe general innervation and taste sensation to the tongue.
 - Describe innervation of teeth and associated periodontium.
 - Identify and differentiate the main branches of the facial (VII) nerve including their function.
 3. Describe normal and abnormal head and neck anatomy and physiology in order to identify abnormal function, to provide a foundation for clinical dental hygiene:
 - a. 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 associated 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 symptoms associated with minor TMJ disorders.
 - Demonstrate awareness of inquiry needs associated with TMJ disorders relevant to an extra oral examination.
- b. Identify and describe blood supply, lymphatic structures and fascial spaces of the head and neck.
- Describe branches and pathway and tissues supplied by the external carotid artery.
 - Identify blood supply to the dental and associated oral tissues.
 - Describe pathway and branches of the internal carotid artery and identify tissues supplied.
 - Describe the overall venous drainage system of the head and neck.
 - Identify the names of the vessels and describe the pathway of the venous return from the teeth and the oral cavity to the heart.
 - Explain the structure, function and location of the lymphatic system located in the head and neck region.
 - Explain lymphatic drainage of the head and neck, including the the teeth and periodontium.
 - Describe primary, secondary and tertiary nodes and discuss their significance.
 - Explain the general structure and function of fascial spaces in the head and neck region.
 - Identify major fascial spaces of the head and neck and discuss their relationship to the spread of infection.
- c. Describe salivary glands and explain breath odor.
- Describe the location and function of the major and minor salivary glands.
 - Describe types, compositions and characteristics 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 research (oral and non-oral).
- d. Describe the paranasal sinuses.
- Describe the basic structure and function of sinuses.
 - Identify and describe the location of the 4 pairs of paranasal sinuses and describe the relationship between the hard and soft tissue structures associated with these sinuses.
 - Describe the relationship between the maxillary sinus and teeth.

WEEK or DATE RANGE	ACTIVITY or TOPIC	OTHER NOTES
	Refer to course schedule on D2L	

Students registered with the Centre for Accessible Learning (CAL) who complete quizzes, tests, and exams with academic accommodations have booking procedures and deadlines with CAL where advanced noticed is

required. Deadlines can be reviewed on the [CAL exams page](https://camosun.ca/services/academic-supports/accessible-learning/academic-accommodations-exams). <https://camosun.ca/services/academic-supports/accessible-learning/academic-accommodations-exams>

EVALUATION OF LEARNING

NOTE: minimum passing grade for this course is B- or 70% OR COM

DESCRIPTION	WEIGHTING
Quizzes (5)	15%
Test #1	25%
Test #2	25%
Final Exam	35%
	TOTAL
	100%

If you have a concern about a grade you have received for an evaluation, please come and see me as soon as possible. Refer to the [Grade Review and Appeals](https://camosun.ca/sites/default/files/2021-05/e-1.14.pdf) policy for more information.
<https://camosun.ca/sites/default/files/2021-05/e-1.14.pdf>

COURSE GUIDELINES & EXPECTATIONS

See D2L for further information

SCHOOL OR DEPARTMENTAL INFORMATION

Students are required to read and are accountable for following College policies and guidelines as described in the DHYG and HHS Student Handbooks.

[DHYG Student Handbook](#)

[HHS Student Handbook](#)

STUDENT RESPONSIBILITY

Enrolment at Camosun assumes that the student will become a responsible member of the College community. As such, each student will display a positive work ethic, assist in the preservation of College property, and assume responsibility for their education by researching academic requirements and policies; demonstrating courtesy and respect toward others; and respecting expectations concerning attendance, assignments, deadlines, and appointments.

SUPPORTS AND SERVICES FOR STUDENTS

Camosun College offers a number of services to help you succeed in and out of the classroom. For a detailed overview of the supports and services visit camosun.ca/services.

Support Service

Website

Academic Advising

camosun.ca/services/academic-supports/academic-advising

Support Service	Website
Accessible Learning	camosun.ca/services/academic-supports/accessible-learning
Counselling	camosun.ca/services/health-and-wellness/counselling-centre
Career Services	camosun.ca/services/co-operative-education-and-career-services
Financial Aid and Awards	camosun.ca/registration-records/financial-aid-awards
Help Centres (Math/English/Science)	camosun.ca/services/academic-supports/help-centres
Indigenous Student Support	camosun.ca/programs-courses/iecc/indigenous-student-services
International Student Support	camosun.ca/international
Learning Skills	camosun.ca/services/academic-supports/help-centres/writing-centre-learning-skills
Library	camosun.ca/services/library
Office of Student Support	camosun.ca/services/office-student-support
Ombudsperson	camosun.ca/services/ombudsperson
Registration	camosun.ca/registration-records/registration
Technology Support	camosun.ca/services/its
Writing Centre	camosun.ca/services/academic-supports/help-centres/writing-centre-learning-skills

If you have a mental health concern, please contact Counselling to arrange an appointment as soon as possible. Counselling sessions are available at both campuses during business hours. If you need urgent support after-hours, please contact the Vancouver Island Crisis Line at 1-888-494-3888 or call 911.

COLLEGE-WIDE POLICIES, PROCEDURES, REQUIREMENTS, AND STANDARDS

Academic Integrity

Students are expected to comply with all College policy regarding academic integrity; which is about honest and ethical behaviour in your education journey. The following guide is designed to help you understand your responsibilities: <https://camosun.libguides.com/academicintegrity/welcome>
Please visit <https://camosun.ca/sites/default/files/2021-05/e-1.13.pdf> for Camosun's Academic Integrity policy and details for addressing and resolving matters of academic misconduct.

Academic Accommodations for Students with Disabilities

The College is committed to providing appropriate and reasonable academic accommodations to students with disabilities (i.e. physical, depression, learning, etc.). If you have a disability, the [Centre for Accessible Learning](#) (CAL) can help you document your needs, and where disability-related barriers to access in your courses exist, create an accommodation plan. By making a plan through CAL, you can ensure you have the appropriate academic accommodations you need without disclosing your diagnosis or condition to course

instructors. Please visit the CAL website for contacts and to learn how to get started:

<https://camosun.ca/services/academic-supports/accessible-learning>

Academic Progress

Please visit <https://camosun.ca/sites/default/files/2023-02/e-1.1.pdf> for further details on how Camosun College monitors students' academic progress and what steps can be taken if a student is at risk of not meeting the College's academic progress standards.

Course Withdrawals Policy

Please visit <https://camosun.ca/sites/default/files/2021-05/e-2.2.pdf> for further details about course withdrawals. For deadline for fees, course drop dates, and tuition refund, please visit <https://camosun.ca/registration-records/tuition-fees#deadlines>.

Grading Policy

Please visit <https://camosun.ca/sites/default/files/2021-05/e-1.5.pdf> for further details about grading.

Grade Review and Appeals

Please visit <https://camosun.ca/sites/default/files/2021-05/e-1.14.pdf> for policy relating to requests for review and appeal of grades.

Medical / Compassionate Withdrawals

Students who are incapacitated and unable to complete or succeed in their studies by virtue of serious and demonstrated exceptional circumstances may be eligible for a medical/compassionate withdrawal. Please visit <https://camosun.ca/sites/default/files/2021-07/e-2.8.pdf> to learn more about the process involved in a medical/compassionate withdrawal.

Sexual Violence and Misconduct

Camosun is committed to creating a campus culture of safety, respect, and consent. Camosun's Office of Student Support is responsible for offering support to students impacted by sexual violence. Regardless of when or where the sexual violence or misconduct occurred, students can access support at Camosun. The Office of Student Support will make sure students have a safe and private place to talk and will help them understand what supports are available and their options for next steps. The Office of Student Support respects a student's right to choose what is right for them. For more information see Camosun's Sexualized Violence and Misconduct Policy: <https://camosun.ca/sites/default/files/2021-05/e-2.9.pdf> and camosun.ca/services/sexual-violence-support-and-education. To contact the Office of Student Support: oss@camosun.ca or by phone: 250-370-3046 or 250-370-3841

Student Misconduct (Non-Academic)

Camosun College is committed to building the academic competency of all students, seeks to empower students to become agents of their own learning, and promotes academic belonging for everyone. Camosun also expects that all students to conduct themselves in a manner that contributes to a positive, supportive, and safe learning environment. Please review Camosun College's Student Misconduct Policy at <https://camosun.ca/sites/default/files/2021-05/e-2.5.pdf> to understand the College's expectations of academic integrity and student behavioural conduct.

Looking for other policies?

The full suite of College policies and directives can be found here: <https://camosun.ca/about/camosun-college-policies-and-directives>

Changes to this Syllabus: Every effort has been made to ensure that information in this syllabus is accurate at the time of publication. The College reserves the right to change courses if it becomes necessary so that course content remains relevant. In such cases, the instructor will give the students clear and timely notice of the changes.