

# CLASS SYLLABUS



COURSE TITLE: DHYG 219 Head & Neck Anatomy  
CLASS SECTION: X01–Wednesdays 3:00-4:50pm & Fridays 10:00-11:50am  
TERM: F2021  
COURSE CREDITS: 3.0  
DELIVERY METHOD(S): Synchronous class to be delivered on-site whenever possible

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](#).

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For COVID-19 information please visit: <https://camosun.ca/about/covid-19-updates>

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*Camosun College requires mandatory attendance for the first class meeting of each course. If you do not attend, and do not provide your instructor with a reasonable explanation in advance, you will be removed from the course and the space offered to the next waitlisted student.*

## INSTRUCTOR DETAILS

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NAME: Amber Chamut  
EMAIL: [chamuta@camosun.ca](mailto:chamuta@camosun.ca)  
OFFICE: DNT 003  
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

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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

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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

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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

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Fehrenbach, M.J., Herring, S.W. (2021). *Illustrated anatomy of the head and neck* (6<sup>th</sup> ed.). St. Louis, Missouri: Elsevier.

Fehrenbach, M.J., Popowics, T. (2021) *Illustrated dental embryology, histology and anatomy*. 5<sup>th</sup> ed. Missouri: Elsevier Saunders.

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

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

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The schedule for DHYG 219 will be posted on D2L.

Also see Course Guidelines & Expectations below for more information.

### **1. Identify and describe structures, landmarks and anatomical relationships of the skull using appropriate terminology.**

- 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 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.*

**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 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 signs and symptoms associated with minor TMJ disorders.*
- Demonstrate awareness of dental hygiene considerations associated with TMJ disorders relevant to an extra-oral examination.*

**5. 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.*

**6. 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.*

**7. 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 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.*

**8. 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.*

**9. 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).

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 scan be reviewed on the [CAL exams page](http://camosun.ca/services/accessible-learning/exams.html). <http://camosun.ca/services/accessible-learning/exams.html>

**STUDENT EVALUATION**

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

DESCRIPTION	WEIGHTING
Quizzes	10
Test #1	25
Test #2	25
Final Exam	40
<b>TOTAL</b>	<b>100%</b>

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](http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf) policy for more information. <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf>

## COURSE GUIDELINES & EXPECTATIONS

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See above

## SCHOOL OR DEPARTMENTAL INFORMATION

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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

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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

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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 <http://camosun.ca/students/>.

Support Service	Website
Academic Advising	<a href="http://camosun.ca/advising">http://camosun.ca/advising</a>
Accessible Learning	<a href="http://camosun.ca/accessible-learning">http://camosun.ca/accessible-learning</a>
Counselling	<a href="http://camosun.ca/counselling">http://camosun.ca/counselling</a>
Career Services	<a href="http://camosun.ca/coop">http://camosun.ca/coop</a>
Financial Aid and Awards	<a href="http://camosun.ca/financialaid">http://camosun.ca/financialaid</a>
Help Centres (Math/English/Science)	<a href="http://camosun.ca/help-centres">http://camosun.ca/help-centres</a>
Indigenous Student Support	<a href="http://camosun.ca/indigenous">http://camosun.ca/indigenous</a>
International Student Support	<a href="http://camosun.ca/international/">http://camosun.ca/international/</a>
Learning Skills	<a href="http://camosun.ca/learningskills">http://camosun.ca/learningskills</a>
Library	<a href="http://camosun.ca/services/library/">http://camosun.ca/services/library/</a>
Office of Student Support	<a href="http://camosun.ca/oss">http://camosun.ca/oss</a>
Ombudsperson	<a href="http://camosun.ca/ombuds">http://camosun.ca/ombuds</a>
Registration	<a href="http://camosun.ca/registration">http://camosun.ca/registration</a>

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Support Service	Website
Technology Support	<a href="http://camosun.ca/its">http://camosun.ca/its</a>
Writing Centre	<a href="http://camosun.ca/writing-centre">http://camosun.ca/writing-centre</a>

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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

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### 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:

<http://camosun.ca/services/accessible-learning/>

### Academic Integrity

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.13.pdf> for policy regarding academic expectations and details for addressing and resolving matters of academic misconduct.

### Academic Progress

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/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 <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.2.pdf> for further details about course withdrawals. For deadline for fees, course drop dates, and tuition refund, please visit <http://camosun.ca/learn/fees/#deadlines>.

### Grading Policy

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf> for further details about grading.

### Grade Review and Appeals

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf> for policy relating to requests for review and appeal of grades.

### Mandatory Attendance for First Class Meeting of Each Course

Camosun College requires mandatory attendance for the first class meeting of each course. If you do not attend, and do not provide your instructor with a reasonable reason in advance, you will be removed from the course and the space offered to the next waitlisted student. For more information, please see the “Attendance” section under “Registration Policies and Procedures”

(<http://camosun.ca/learn/calendar/current/procedures.html>) and the Grading Policy at <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf>.

### 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 <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/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: <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.9.pdf> and [camosun.ca/sexual-violence](http://camosun.ca/sexual-violence). To contact the Office of Student Support: [oss@camosun.ca](mailto: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 <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.5.pdf> to understand the College’s expectations of academic integrity and student behavioural conduct.

**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.