

COURSE SYLLABUS



COURSE TITLE: DHYG 220 Dental Anatomy

CLASS SECTION: X01

TERM: F2024

COURSE CREDITS: 1.5

DELIVERY METHOD(S): Lecture, Lab

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

INSTRUCTOR DETAILS

NAME: Michelle Meunier

EMAIL: meunierm@camosun.ca

OFFICE: Dental 004

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 learn crown and root anatomy, morphology and occlusal relationships for primary and permanent dentitions. Students will identify and differentiate features of teeth and how these may affect dental hygiene care.

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	1	15	15
Seminar			
Lab / Collaborative Learning	1	15	15
Supervised Field Practice			
Workplace Integrated Learning			
Online			
		TOTAL HOURS	30

COURSE LEARNING OUTCOMES / OBJECTIVES

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

1. Use dental and anatomical terms to describe dental anatomy and intraoral positions of teeth in order to provide accurate documentation.
2. Describe tooth morphology that relates to the identification and differentiation of primary and permanent teeth and demonstrate a good understanding of morphology.
3. Describe normal eruption sequence and patterns for eruption of primary and permanent teeth as a foundation for clinical dental hygiene.
4. Describe occlusal classifications and variations from normal in order to have a basic understanding of function as it applies to client care.

REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

- a. Fehrenbach, M.J., & Popowics, T. (2020). *Illustrated dental embryology, histology and anatomy*. (5th ed.). Elsevier.
- b. Kilgore International Inc. Dental Study Model – Permanent Teeth with Anatomical roots. Models are purchased as part of the DHYG instrument kit.

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 8:30am-9:20am Dental 015
Lab: Wednesdays 9:30am-10:20am Dental 015

WEEK or DATE RANGE	ACTIVITY or TOPIC	OTHER NOTES
Weeks 1-4	Units 1-3 – Introduction to the oral cavity, anatomical terminology, numbering systems, tooth divisions, contacts and curvatures, tooth tissues and eruption patterns.	
Weeks 5-9	Unit 4 – Permanent and primary tooth morphology and assignment work	
Week 9-11	Unit 5 – Permanent and primary occlusion	
Week 12	Unit 6 – Root morphology	

WEEK or DATE RANGE	ACTIVITY or TOPIC	OTHER NOTES
Weeks 13 and 14	Unit 7 – Crown and root anomalies Review	

By the completion of this course a student will be able to:

1. Use dental and anatomical terms to describe dental anatomy and intraoral positions of teeth in order to provide accurate documentation.
 - Apply terms pertaining to primary and permanent dentitions in all communication.
 - Describe features of all types of human teeth in the permanent and primary dentitions using accurate terminology.
 - Discuss the arrangement of teeth identifying positions of arches, quadrants and sextants.
 - Using anatomical terms, describe tooth surfaces, horizontal and vertical divisions of teeth, line angles and point angles.
 - Describe the International, Universal and Palmer tooth numbering systems.
 - Describe morphology of tooth crowns as they relate to alignment, proximal contacts and embrasure spaces.
 - Describe the effect on gingival health of pronounced or inadequate curvatures of teeth and widened or narrow embrasures.

2. Describe tooth morphology that relates to the identification and differentiation of permanent and primary teeth.
 - Discuss basic development of primary and secondary grooves relative to morphology (lobes).
 - Discuss general and key characteristics of each type of tooth crown and root (incisors, canines, premolars, and molars).
 - Differentiate the anatomical differences between primary and permanent teeth.
 - Describe specific anatomical features of each deciduous tooth crown.
 - Explain the importance of deciduous teeth.
 - Describe common variations or abnormal features of each tooth crown and root.
 - Describe anatomical features of deciduous roots and compare with permanent counterparts.
 - Identify permanent teeth in a laboratory or clinical setting using appropriate anatomical terminology.
 - Discuss features of tooth crown and/or root morphology that may affect the provision of dental hygiene care.
 - Discuss crown to root proportions in relation to the prognosis of periodontal disease
 - Discuss the implications of normal and abnormal root anatomy for effective root instrumentation.

3. Describe normal eruption sequence and general patterns for primary and permanent teeth as a foundation for clinical dental hygiene.
 - Identify eruption patterns of permanent teeth and primary teeth.
 - Describe the timeline of tooth crown and root development relative to eruption.

4. Describe occlusal classifications and variations from normal in order to have a good understanding of function as it applies to client care.
 - Define centric (static) relation, centric (static) occlusion, ideal occlusion, functional occlusion, open bite, overbite and overjet.
 - Describe anatomical, dental and oro-facial characteristics of Angle's Class I, II (Divisions 1 and 2) and III occlusion and malocclusion.
 - Describe normal ranges of overbite and overjet.

- Describe common abnormalities found within each classification (e.g. crossbites, premature contact).
- Describe normal occlusal relationships during guided movement of the mandible.
- Explain factors associated with the development of malocclusions.
- Define primary and secondary occlusal trauma including clinical and histological signs and symptoms.
- Explain common etiologic factors that may contribute to occlusal trauma.
- Discuss fremitus and describe how to assess clinically
- Discuss marginal ridge insufficiency and its relation to periodontal diseases

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 notice 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

DESCRIPTION	WEIGHTING
Exam #1	20%
Exam #2	25%
Exam #3 – Final Exam	30%
Assignment	25%
	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
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.