



CAMOSUN COLLEGE

School of Health and Human Services (HHS)
Department: Dental Programs – Dental Hygiene

DHYG 220 Dental Anatomy
Fall 2019

COURSE OUTLINE

The course description is available on the web:
<http://camosun.ca/learn/calendar/current/web/dhyg.html#dhyg220>

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** Michelle Meunier
- (b) **Office hours** Posted on Door
- (c) **Location** Dental Building - 004
- (d) **Phone** 250-370-3507 **Alternative:** n/a
- (e) **E-mail** meunierm@camosun.bc.ca
- (f) **Website** n/a

2. Course Description & Intended Learning Outcomes

Crown and root anatomy, morphology and occlusion will be studied in detail. Students will identify features of crown and root morphology that relate to the identification and differentiation of teeth in addition to occlusal relationships and how these may affect the provision of dental hygiene care.

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

- a) students will use dental and anatomical terms to describe dental anatomy and intraoral positions of teeth in order to provide accurate documentation.
- b) describe tooth morphology that relates to the identification and differentiation of teeth and have a good understanding of morphology in relation to clinical application.
- c) describe normal eruption sequence and general patterns for primary and permanent teeth as a foundation for clinical dental hygiene.
- d) describe occlusal classifications and variations from normal in order to have a good understanding of function as it applies to client care.

3. Required Materials

(a) Required Text: Fehrenback, M. & Popowics, T. (2016). Illustrated Dental Embryology, Histology, and Anatomy. 4th Ed. St. Louis: Elsevier/Saunders.

(b) Other Equipment/material required: Kilgore International Inc. Dental Study Model – Permanent Teeth with Anatomical Roots. Models Purchased as part of the DHYG instrument kit

4. Course Content and Schedule

Schedule posted on D2L
2.0 Hours per week for 14 weeks

Course Elements

By the end of this course you will know and be able to do the following:

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

5. Basis of Student Assessment (Weighting)

1. Term Exam	35%
2. In Class Quiz	15%
3. Group Facilitation and Summary	10%
4. Final Exam	40%

****Please note that the minimum grade for successful completion of DHYG 220 is B- or 70%**

6. Grading System

- Standard Grading System (GPA)
- Competency Based Grading System

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

N/A

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/get-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, [Academic Progress](#), [Admission](#), [Course Withdrawals](#), [Student Appeals](#), Medical/Compassionate Withdrawal, Sexual Violence and Misconduct, Student Ancillary Fees, and Student Penalties and Fines.

Student Conduct Policy

There is a [Student Conduct Policy](#). 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	A		8
80-84	A-		7
77-79	B+		6
73-76	B		5
70-72	B-	Minimum passing grade for Dental courses	4
65-69	C+		3
60-64	C		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
COM	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	<i>Incomplete:</i> 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	<i>In progress:</i> 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	<i>Compulsory Withdrawal:</i> 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.