

# COURSE SYLLABUS



Camosun College campuses are located on the traditional territories of the Ləkʷəŋən and WSÁNEĆ peoples. We acknowledge their welcome and graciousness to the students who seek knowledge here.

TERM: W2021  
 COURSE & SECTION: DHYG 222  
 COURSE TITLE: Introduction to Periodontology  
 SECTION DETAILS: Thursdays 1:30-3:20pm  
 INSTRUCTOR: Elizabeth Morch | D004 | morch@camosun.bc.ca  
 OFFICE HOURS: Posted on D2L (on-line)

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.

Camosun College will continue to follow the guidance of the Provincial Health Officer, the B.C. Government and WorkSafeBC, and as such may revise the delivery of courses. Courses with an approved face-to-face component may need to move to online or remote delivery if necessary.

The COVID-19 pandemic has presented many challenges, and Camosun College is committed to helping you safely complete your education. Following guidelines from the Provincial Health Officer, WorkSafe BC and the B.C. Government to ensure the health and wellbeing of students and employees Camosun College is providing you with every possible protection to keep you safe including COVID Training for students and employees, health checks, infection control protocols including sanitization of spaces, PPE and ensuring physical distancing. Please refer to: <http://camosun.ca/covid19/faq/covid-faqs-students.html> However, if you're at all uncomfortable being on campus, please share your concerns with your Instructor and if needed, alternatives will be discussed.

## COURSE DESCRIPTION

This course explores the fundamental concepts related to periodontal diseases, focusing on the etiology, risk factors, pathophysiology, clinical characteristics and therapy for plaque-induced gingival diseases and chronic periodontitis.

<input type="checkbox"/> <b>Synchronous delivery:</b> Courses will be completely online with online scheduled meetings and expectations for remote student participation. There will be meeting times but not on campus. Students will be expected to manage time zone differences for scheduled online activities.	<input type="checkbox"/> <b>Asynchronous delivery</b> Courses will be completely online with no set meeting schedules. Students may participate from any time zone or anywhere in the world. All evaluation will be managed remotely.	<input checked="" type="checkbox"/> <b>Blended delivery:</b> A mixed delivery of both synchronous and asynchronous.
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Course Credits: 2  
 Prerequisite(s):  
 Corequisite(s):  
 Pre/Corequisite(s): B- in BIOL 260, B- in DHYG 221, 231, 280, COM in DHYG 281  
 Exclusion(s):

## COURSE DELIVERY

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ACTIVITY	HOURS / WEEK	# OF WEEKS	ACTIVITY HOURS
Lecture	2	16	32
Seminar			
Lab / Collaborative Learning			
Supervised Field Practice			
Workplace Integrated Learning			
Online			
	TOTAL HOURS		32

Additional Delivery information:  
 Exam week is week #17

## LEARNING OUTCOMES

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Upon successful completion of this course, you will be able to:

- a) Determine the classification, etiology and risk factors for periodontal diseases.
- b) Discuss the characteristics and relevance of microorganisms and host response in relation to periodontal diseases.
- c) Describe the pathophysiology, histology, clinical characteristics, and treatment of plaque-induced gingival diseases and chronic periodontitis.

## REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

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Nield-Gehrig & Williams, Foundations of Periodontics for the Dental Hygienist, 5th Ed, 2019.

Optional: Carranza's Clinical Periodontology, 13th ed., Newman M.G., Takei H.H., Klokkevold, P.R., Carranza, F.A., W.B. Saunders Co., 2019.

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

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### ACTIVITY

**Determine the classification, etiology and risk factors for periodontal diseases.**

**1. Determine the classification for periodontal diseases.**

- A. Discuss the function of the American Academy of Periodontology
- B. Describe the American Academy of Periodontology classification system
- C. Discuss the American Academy of Periodontology definition of periodontal health

- D. Discuss the parameters used for Grading and Staging of Periodontal disease
- E. Identify the relevance and limitations of assessment data used to determine classification

## **2. Discuss the etiology and risk factors for periodontal diseases.**

- A. Define the parameters of etiological factors of periodontal diseases and describe the importance of etiology in the dental hygiene process of care
- B. Explain the different terms used to categorize etiological factors in periodontal diseases
- C. Discuss past and current theories on the etiology of periodontal diseases.

## **3. Discuss the risk factors associated with the progression of periodontal disease**

- A. Describe risk factors and the use of risk assessment in Grading periodontitis
- B. Identify risk factors with positive association with periodontal disease
- C. Define risk factors, risk indicators and risk determinants
- D. Discuss current model of pathogenicity

# **The characteristics and relevance of microorganisms and host response in relation to periodontal diseases**

## **1. Discuss the relevance of plaque biofilm as a etiologic factor for periodontal disease**

- A. Apply knowledge of microbiology, oral flora, bacterial virulence factors, bacterial succession in and characteristics of dental biofilm from BIOL 160
- B. Apply understanding of the characteristics of plaque as a biofilm and its role as a risk factor in the etiology of periodontal diseases
- C. Recall the transition in oral ecology from health to gingivitis to periodontitis the general characteristics of the type of microorganism associated with each
- D. Compare the characteristics of supragingival plaque biofilm to that of subgingival.
- E. Identify and describe the characteristics of microorganisms currently associated with periodontitis including: *Porphyromonas gingivalis*, *Aggregatibacter actinomycetemcomitans*, *Tannerella forsythia*, *Prevotella intermedia*, *Capnocytophaga*, *Fusobacterium nucleatum*, *Spirochetes*, (*Treponemas*), *Selenomonas*, *Campylobacter recta*, and *Eikenella corrodens*
- F. Identify the bacteria considered primary and secondary pathogens in the etiology of periodontitis

## **2. Discuss the role of inflammation and host response in the etiology of periodontal disease**

- A. Apply knowledge of the general role of inflammation in the etiology of periodontal diseases
- B. Describe the local predisposing factors associated with periodontal diseases and their role as etiological factors.
- C. Apply understanding of functions of the different components of the immune system to periodontal diseases.
- D. Describe the overall role of host response in periodontal diseases.
- E. Describe significant inflammatory mediators involved in the host response to periodontal pathogens
- F. Describe the sequence of events in host response to periodontal pathogens (cellular, chemical and immunological aspects) and potential result in controlling infection
- G. Describe the role of systemic factors in influencing periodontal diseases and identify systemic factors considered as major risk factors in periodontal diseases

## **3. Discuss the rationale for periodontal therapy**

- A. Describe factors that local and systemic factors delay and promote periodontal healing.

- B. Describe the processes and clinical results of different forms of healing of the periodontium after periodontal therapy
- C. Describe the considerations in determining the prognosis of periodontal diseases
- D. Describe the guidelines for referral to a periodontist

## **Describe the pathophysiology, histology, clinical characteristics, and treatment of plaque-induced gingival diseases and chronic periodontitis.**

### **1. Plaque induced gingivitis**

- A. Describe the general characteristic of gingivitis when classified by course and duration.
- B. Describe the pathological and histological changes that occur in gingivitis.
- C. Correlate the clinical characteristics of gingivitis with the underlying histological changes and gingival assessment procedures.
- D. Describe the diagnosis, treatment and prognosis of plaque-induced gingivitis

### **2. Periodontitis**

- A. Describe the classification, characteristics and significance of pockets associated with periodontal diseases.
- B. Describe the histopathology of the following areas of a periodontal pocket: the soft tissue (inner wall), the root surface wall, contents of periodontal pockets.
- C. Describe the pathogenesis of periodontal pocket formation on a histological level.
- D. Briefly describe, compare and contrast early concepts and current concepts of disease activity (progression), including patterns of exacerbation and remission.
- E. Correlate the clinical findings in chronic periodontitis with the histological features.
- F. Describe the histological changes and pathologic processes that occur in alveolar bone in chronic periodontitis.
- G. Describe the radiographic changes seen in chronic periodontitis.
- H. Describe chronic periodontitis clinically.
- I. Describe the treatment and prognosis of chronic periodontitis.

### **3. Acquired Deformities and Conditions**

- A. Discuss tooth related factors that modify or predispose to plaque induced gingival disease or periodontitis
- B. Discuss mucogingival deformities and conditions around teeth as identified in the AAP classification system
- C. Discuss occlusal trauma
- D. Describe the physiological adaptations of the periodontium to different types of occlusal forces.
- E. Describe trauma from occlusion including the characteristics and significance of acute trauma from occlusion and chronic trauma from occlusion.
- F. Differentiate between primary trauma from occlusion and secondary trauma from occlusion.
- G. Describe the different stages of periodontal response to increased or traumatic occlusal forces in the absence of plaque induced inflammation, including reversibility of lesions from occlusal force.
- H. Identify and discuss the effects of insufficient occlusal forces on the periodontium and excessive forces on pulp tissues.
- I. Describe the effects of trauma from occlusion on the initiation and progression of gingivitis and periodontitis.
- J. Describe the clinical and radiographic signs of trauma from occlusion.
- K. Discuss pathological tooth migration, describing its causes and consequences

## STUDENT EVALUATION

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

DESCRIPTION	WEIGHTING
AAP Classification Assignment	20%
Term Test	40%
Final Exam	40%
If you have a concern about a grade you have received for an evaluation, please come and see me as soon as possible. If you wish to dispute a final grade you have received, please refer to the <a href="#">Grade Appeal Policy</a> .	<b>TOTAL</b> 100%

## 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 <http://camosun.ca/services/>.

Academic Advising	<a href="http://camosun.ca/services/academic-advising/">http://camosun.ca/services/academic-advising/</a>
Accessible Learning	<a href="http://camosun.ca/services/accessible-learning/">http://camosun.ca/services/accessible-learning/</a>
Counselling	<a href="http://camosun.ca/services/counselling-centre/">http://camosun.ca/services/counselling-centre/</a>
D2L Support	<a href="mailto:desupport@camosun.ca">desupport@camosun.ca</a>
Financial Aid and Awards	<a href="http://camosun.ca/services/financial-aid/">http://camosun.ca/services/financial-aid/</a>
Help Centres (Math/English/Science)	<a href="http://camosun.ca/services/help-centres/">http://camosun.ca/services/help-centres/</a>
Indigenous Student Support	<a href="http://camosun.ca/learn/school/indigenous-education-community-connections/">http://camosun.ca/learn/school/indigenous-education-community-connections/</a>
International Student Support	<a href="http://camosun.ca/international/">http://camosun.ca/international/</a>
Learning Skills	<a href="http://camosun.ca/services/writing-centre/learning-skills">http://camosun.ca/services/writing-centre/learning-skills</a>
Library	<a href="http://camosun.ca/services/library/">http://camosun.ca/services/library/</a>
Office of Student Support	<a href="http://camosun.ca/services/student-support/">http://camosun.ca/services/student-support/</a>
Ombuds	<a href="http://camosun.ca/about/ombudsman/">http://camosun.ca/about/ombudsman/</a>
Registration	<a href="http://camosun.ca/services/registration/">http://camosun.ca/services/registration/</a>
Technology Support	<a href="http://camosun.ca/services/its/">http://camosun.ca/services/its/</a>
Writing Centre	<a href="http://camosun.ca/services/writing-centre/">http://camosun.ca/services/writing-centre/</a>

**If you have an urgent mental health concern, please contact Counselling.** Urgent counselling sessions are available daily at both campuses during business hours. If you have an emergency or need urgent support after-hours, please contact the Vancouver Island Crisis Line at 1-888-494-3888 or call 911.

## 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.

## STATEMENTS: POLICIES, PROCEDURES, REQUIREMENTS, AND STANDARDS

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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.

### SCHOOL, DEPARTMENT, OR PROGRAM PROCEDURES, REQUIREMENTS, AND STANDARDS

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### COLLEGE-WIDE POLICIES

#### Academic Accommodations for Students with Disabilities

The College is also committed to providing appropriate and reasonable academic accommodations to students with disabilities (i.e. physical, anxiety, depression, learning, etc). If you have a disability, the [Centre for Accessible Learning](#) (CAL) can help you document your needs and create an accommodation plan. By making a plan through CAL, you can ensure you have the appropriate accommodations you need without disclosing your diagnosis or condition to course instructors. If you need to request academic accommodations, you can contact CAL at: [accessible@camosun.ca](mailto:accessible@camosun.ca) or by phone at 250-370-3312 (Lansdowne) or 250-370-4049 (Interurban). Visit <http://camosun.ca/services/accessible-learning/> for more information.

#### 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.

### 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.

### Student Code of Conduct (Academic and 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 Conduct 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.

CHAIR REVIEW DATE: Dec 17, 2020

TEMPLATE VERSION: 2020.1

**Changes to this Course 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.