

CLASS SYLLABUS



COURSE TITLE: DHYG 222 Introduction to Periodontology
CLASS SECTION: X01 – Thursdays 1:00-2:50pm
TERM: W2022
COURSE CREDITS: 2.0
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](#).

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

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

NAME: Liz Morch
EMAIL: morch@camosun.ca
OFFICE: DNT 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 the science behind select periodontal diseases. They will learn to distinguish and understand the relevance of periodontal classification as it relates to the dental hygiene process of care.

PREREQUISITE(S): B- in BIO 161
CO-REQUISITE(S): n/a
PRE/CO-REQUISITE(S): B- in BIO 260, B- in DHYG 231

COURSE DELIVERY

ACTIVITY	HOURS / WEEK	# OF WEEKS	ACTIVITY HOURS
Lecture	2	17	34
Seminar			
Lab / Collaborative Learning			

Supervised Field Practice
Workplace Integrated Learning
Online

TOTAL HOURS		34

COURSE LEARNING OUTCOMES

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

1. Determine the classification, etiology and risk factors for select gingival and periodontal diseases and acquired conditions.
2. Define the characteristics of clinical oral health.
3. Discuss the characteristics and relevance of microorganisms and host response in relation to gingival inflammation and select periodontal diseases and conditions.
4. Describe the pathophysiology, histology, radiographic and clinical characteristics related to select periodontal diseases and conditions

REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

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

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

ACTIVITY

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

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](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
Webinar	5%
AAP Classification	20%

DESCRIPTION	WEIGHTING
Term Test	35%
Final Exam	40%
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](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

Please refer to the student handbook for information regarding supplemental exams.

SCHOOL OR DEPARTMENTAL INFORMATION

See D2L for more 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 <http://camosun.ca/students/>.

Support Service	Website
Academic Advising	http://camosun.ca/advising
Accessible Learning	http://camosun.ca/accessible-learning
Counselling	http://camosun.ca/counselling
Career Services	http://camosun.ca/coop
Financial Aid and Awards	http://camosun.ca/financialaid

Support Service	Website
Help Centres (Math/English/Science)	http://camosun.ca/help-centres
Indigenous Student Support	http://camosun.ca/indigenous
International Student Support	http://camosun.ca/international/
Learning Skills	http://camosun.ca/learningskills
Library	http://camosun.ca/services/library/
Office of Student Support	http://camosun.ca/oss
Ombudsperson	http://camosun.ca/ombuds
Registration	http://camosun.ca/registration
Technology Support	http://camosun.ca/its
Writing Centre	http://camosun.ca/writing-centre

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 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. 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

<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.