

# COURSE SYLLABUS



COURSE TITLE: DHYG 321 Oral Sciences 2

CLASS SECTION: X01

TERM: F2023

COURSE CREDITS: 1.5

DELIVERY METHOD(S): Lecture

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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## INSTRUCTOR DETAILS

NAME: Liz Morch

EMAIL: [morch@camosun.ca](mailto:morch@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.*

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## CALENDAR DESCRIPTION

Students will examine topics in periodontology, including the use of chemotherapeutics as adjuncts, manifestations of systemic disease, and dental implants. They will also study oral pathology, including oral cancer. Students will study the role of the dental hygienist in identifying and differentiating common intraoral mucosal lesions, and referring as required.

PREREQUISITE(S): B- in BIO 260, B- in DHYG 221, B- in DHYG 222

CO-REQUISITE(S): n/a

PRE/CO-REQUISITE(S): n/a

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## COURSE DELIVERY

ACTIVITY	HOURS / WEEK	# OF WEEKS	ACTIVITY HOURS
Lecture	2	15	30
Seminar			
Lab / Collaborative Learning			
Supervised Field Practice			
Workplace Integrated Learning			
Online			
		<b>TOTAL HOURS</b>	<b>30</b>

## COURSE LEARNING OUTCOMES / OBJECTIVES

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

1. Discuss periodontitis as a manifestation of systemic disease.
2. Describe periodontal implants, including characteristics, materials, surgical placement, and histology.
3. Examine peri-implant diseases and conditions as they relate to the the provision of dental hygiene care.
4. Analyze the actions, roles, and limitations of chemotherapeutic agents, including antibiotics commonly used for biofilm-induced gingivitis and periodontitis.
5. Determine the characteristics, etiology, significance, and dental hygiene management of common intraoral mucosal lesions.
6. Determine the risk factors, etiology, clinical characteristics, and diagnostic methods of oral cancer.
7. Examine the role of the dental hygienist in managing oral pathology as part of comprehensive dental hygiene care from initial lesion identification through referral and follow-up.
8. Determine differential diagnoses and referral processes for oral pathology and periodontal diseases.

## REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

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Bowen D.M., & Pieren, J.A. (2024). *Darby and Walsh dental hygiene: Theory and practice* (6th ed.). Elsevier.  
Gadbury-Amyot C., & Pieren J.A. (2025). *Darby and Walsh dental hygiene: Theory and practice* (6th ed.). Elsevier

Gehrig, J.S., Shin, D.E., & Willmann, D.E. (2023). *Foundations of periodontics for the dental hygienist* (Enhanced 6th ed.). Jones & Bartlett Learning.

Regezi, J.A., Sciubba, J.J., & Jordan, R.C.K. (2017). *Oral pathology: Clinical pathologic correlations* (7th ed.). Elsevier.

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

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

**Lectures:**            Wednesdays    8:00am – 9:50am            Fisher 212

### 1. Discuss periodontitis as a manifestation of systemic disease.

- A. Analyze the oral systemic link
- B. Describe the potential relationship between periodontitis and increased risk of premature or low birth weight infants, inflammatory disease and cardiovascular disease and the implications for dental hygiene care.
- C. Apply knowledge of neutrophils and their function (BIO 150, 260) to explaining neutrophil disorders and their implications for periodontal diseases.

- D. Discuss the etiology, epidemiology, histology, clinical features and dental hygiene considerations in the management of periodontal diseases that are related to blood disorders including HIV, acquired neutropenia, leukemia, anemia, and coagulation disorders.

**2. Describe periodontal implants, including characteristics, materials, surgical placement, and histology.**

- A. Discuss implant design, material science and types of implants
- B. Discuss pre-surgical and surgical procedures used to place endosteal implants
- C. Differentiate the periodontal tissues surround natural teeth from tissues around implants

**3. Examine peri-implant diseases and conditions as they relate to the provision of dental hygiene care.**

- A. Discuss the AAP/EFP classification of peri implant diseases
- B. Compare the histology differences between implants and natural teeth
- C. Discuss the pathogenesis of peri-mucositis and perimplantitis and mucositis
- D. Discuss implant failure

**4. Analyze the actions, roles, and limitations of chemotherapeutic agents, including antibiotics commonly used for biofilm-induced gingivitis and periodontitis**

- A. Recall terms related to oral chemotherapeutics from DHYG 310
- B. Describe the advantages and disadvantages of various delivery methods of chemotherapeutics
- C. Identify chemotherapeutic agents available for periodontal therapy and briefly describe their modes of activity and effectiveness
- D. Discuss host modulation therapy
- E. Discuss evidence-based evidence that supports or negates use of specific subgingival antimicrobials in treating chronic periodontitis
- F. Discuss alternatives to chemotherapeutic agents such as laser use and Periowave

**5. Determine the characteristics, etiology, significance, and dental hygiene management of common intraoral mucosal lesions.**

**Vesicular or Bullous Lesions**

- A. Define Nikolsky's sign and its relevance to differential diagnosis of intraoral mucosal lesions.
- B. Describe the clinical features, etiology, prevalence, significance/implications, dental hygiene management and differential diagnosis lesions/conditions that appear as vesicles

**Ulcerative Conditions**

- A. Describe the clinical features, etiology, prevalence, significance/implications, dental hygiene management and differential diagnosis for lesions/conditions that appear as ulcerative lesion in the oral and perioral region:
- B. Differentiate immunologic dysfunction including clinical aphthous ulcers, Behcet's syndrome, erythema multiforme, hypersensitivity reactions, lupus erythematosus, Crohn's.

**Red-Blue Lesions**

- A. Describe the clinical features, etiology, prevalence, significance/implications, dental hygiene management and differential diagnosis for lesions/conditions that appear mainly red or red-blue in the oral and perioral region: .
- B. Definediascopy and explain its application in differential diagnosis of red-blue lesions.
- C. Discuss lesions related to trauma or inflammation including pyogenic granuloma, peripheral giant cell granuloma, petechiae purpura and ecchymoses petechiae purpura and ecchymoses related to blood disorders and hypersensitivity reactions including plasma cell gingivitis
- D. Differentiate infections including candidiasis (red forms), median rhomboid glossitis, angular cheilitis, and scarlet fever vascular malformations and anomalies including ,venous varix, congenital hemangioma, and vascular malformations, Sturge-Weber Syndrome, Hereditary Hemorrhagic Telangiectasia (Rendu-Osler-Weber Syndrome), lymphangioma
- E. Discuss manifestations related to nutritional deficiencies including vitamin B deficiency and anemia

**White Lesions**

- A. Define the term leukoplakia and explain its application in differential diagnosis of white lesions.
- B. Describe the clinical features, etiology, prevalence, significance/implications, dental hygiene management and differential diagnosis for lesions/conditions that appear mainly white or yellowish-white in the oral and perioral region:
- C. Describe variants of normal including leukoedema and fordyce granules
- D. Describe traumatic or inflammatory lesions including geographic tongue, frictional hyperkeratosis, linea alba, white lesions related to tobacco use, hairy tongue, chemical and mucosal burns, and dentifrice-associated slough

- E. Differentiate lesions from infection including candidiasis (white forms), hairy leukoplakia and parulis

**6. Determine the risk factors, etiology, clinical characteristics, and diagnostic methods of oral cancer.**

- A. Discuss oral cancer statistics
- B. Describe diagnostic tests used to diagnose oral pathology, including procedure, advantages, limitations and uses.
- C. Identify the oral and perioral sites at greatest risk for oral cancer, the risk factors for oral cancer and the early warning signs of oral cancer
- D. Describe the clinical and histological characteristics of significant pre-malignant or malignant oral or perioral lesions that appear as ulcerations, red-blue lesions, white lesions, verrucal-papillary lesions and pigmentations o watch for.
- E. Describe the referral process for oral pathology and the role of the oral pathologist in the diagnosis of pathology.
- F. Describe the referral pathways for oral cancer and role and of the BC Cancer Agency in providing services for preventing and treating oral cancer.

**7. Examine the role of the dental hygienist in managing oral pathology as part of comprehensive dental hygiene care from initial lesion identification through referral and follow-up.**

- A. Describe the role of the dental hygienist in identifying and managing oral pathology as part of comprehensive dental hygiene care.
- B. Describe the importance of early detection of any soft tissue abnormalities
- C. Differentiate between dental and dental hygiene diagnosis in relation to oral pathology.
- D. Briefly describe the following types of diagnoses clinical, radiographic, historical, laboratory, microscopic, therapeutic, surgical, differential and definitive diagnosis.
- E. Describe differential diagnosis

**8. Examine the role of the dental hygienist in managing oral pathology as part of comprehensive dental hygiene care from initial lesion identification through referral and follow-up.**

- A. Discuss CDHBC guidelines for documentation and follow up of oral lesions
- B. Describe the referral process for oral pathology
- C. Describe the referral pathways for oral cancer and the role of the BC Cancer Agency in providing services for preventing and treating oral cancer

WEEK or DATE RANGE. Subject to change

Time Block/Start Date	Topic/Module	Activities and Assignment
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WEEK or DATE RANGE. Subject to change

Week 1: Sept 4	Course Introduction Module 1 Referrals, may begin Module 2 Implants	course introduction powerpoint
Week 2: Sept 11	Module 2: Implants	.powerpoint,
Week 3: Sept 18	Module 3 systemic link. RA, CKD, Cardiac, Alzheimer's, CKD	powerpoint,
Week 4: Sept 25	Module 3: No class. Complete Webinar and readings	CDHA Webinar and readings tapes sessio readings
Week 5: Oct 2	Module 3: Review systemic link begin Module 4:Use of Chemotherapeutics	powerpoint,
Week 6: Oct 9	Module 4 Use of Chemotherapeutics and review	online scheduled
Week 7: Oct 16	Midterm	powerpoint,
Week 8: Oct 23	Module 5: Introduction to Oral Pathology and begin Module 6: Oral Cancer	powerpoint,
Week 9: Oct 30	Module 6: Oral Cancer	powerpoint,
Week 10: Nov 6	Module 7: Non plaque induced gingivitis	powerpoint,

WEEK or DATE RANGE. Subject to change

Week 11: Nov 13	Module 8: Vesicular and Ulcerative Lesions	powerpoint,
Week 12: Nov 20	Module 9: Red Blue Lesions	powerpoint,
Week 13: Nov 27	Module 10: White Lesions	powerpoint,
Week 14: Dec 4	Presentations of projects	TBD

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

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DESCRIPTION		WEIGHTING
Assignments ( see description)	Assignments	20%
Exams	Midterm	40%
	Final	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](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

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See D2L for further information

## 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.

## 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 [camosun.ca/services](https://camosun.ca/services).

Support Service	Website
Academic Advising	<a href="https://camosun.ca/services/academic-supports/academic-advising">camosun.ca/services/academic-supports/academic-advising</a>
Accessible Learning	<a href="https://camosun.ca/services/academic-supports/accessible-learning">camosun.ca/services/academic-supports/accessible-learning</a>
Counselling	<a href="https://camosun.ca/services/health-and-wellness/counselling-centre">camosun.ca/services/health-and-wellness/counselling-centre</a>
Career Services	<a href="https://camosun.ca/services/co-operative-education-and-career-services">camosun.ca/services/co-operative-education-and-career-services</a>
Financial Aid and Awards	<a href="https://camosun.ca/registration-records/financial-aid-awards">camosun.ca/registration-records/financial-aid-awards</a>
Help Centres (Math/English/Science)	<a href="https://camosun.ca/services/academic-supports/help-centres">camosun.ca/services/academic-supports/help-centres</a>
Indigenous Student Support	<a href="https://camosun.ca/programs-courses/iecc/indigenous-student-services">camosun.ca/programs-courses/iecc/indigenous-student-services</a>
International Student Support	<a href="https://camosun.ca/international">camosun.ca/international</a>
Learning Skills	<a href="https://camosun.ca/services/academic-supports/help-centres/writing-centre-learning-skills">camosun.ca/services/academic-supports/help-centres/writing-centre-learning-skills</a>
Library	<a href="https://camosun.ca/services/library">camosun.ca/services/library</a>
Office of Student Support	<a href="https://camosun.ca/services/office-student-support">camosun.ca/services/office-student-support</a>
Ombudsperson	<a href="https://camosun.ca/services/ombudsperson">camosun.ca/services/ombudsperson</a>
Registration	<a href="https://camosun.ca/registration-records/registration">camosun.ca/registration-records/registration</a>
Technology Support	<a href="https://camosun.ca/services/its">camosun.ca/services/its</a>
Writing Centre	<a href="https://camosun.ca/services/academic-supports/help-centres/writing-centre-learning-skills">camosun.ca/services/academic-supports/help-centres/writing-centre-learning-skills</a>



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 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](https://camosun.ca/services/sexual-violence-support-and-education). 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 <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.