



CAMOSUN COLLEGE

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



[Camosun.ca/hhs-handbook](http://camosun.ca/hhs-handbook)

DHYG 370 Clinical Theory 3 Fall 2019

COURSE OUTLINE

The course description is available on the web:
<http://camosun.ca/learn/calendar/current/web/dhyg.html#dhyg370>

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** Leta Zaleski
- (b) **Office hours** By appointment
- (c) **Location** DNT 003
- (d) **Phone** 250-370-3453 **Alternative:** 250-880-6901
- (e) **E-mail** zaleskil@camosun.bc.ca
- (f) **Website** N/A

2. Course Description & Intended Learning Outcomes

This course builds on DHYG 280 with a focus on the integration of clinical theory, professional practice and dental science into complex care planning for clients of a variety of ages and those with diverse dental and medical conditions. This course prepares learners for increased responsibility in managing assessment, planning, diagnosis, implementation and evaluation of dental hygiene client care.

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

- a) explain the possible oral implications of diverse dental conditions for dental hygiene services.
- b) analyze the elements of comprehensive dental hygiene care for clients with diverse dental and medical conditions.
- c) explain communication and collaboration issues associated with the process of care for clients of a variety of ages and diverse backgrounds.
- d) analyze dental hygiene educational, preventive and therapeutic services in relationship to the available evidence.
- e) examine advocacy approaches that support access to dental and dental hygiene care for individual clients.

3. Required Materials

Darby M., & Walsh M., (2015). Dental Hygiene Theory and Practice, 4th Ed. Elsevier, St. Louis

Clinic Manual, Camosun College Dental Hygiene Program; 2019-2020

4. Course Content and Schedule

Schedule posted on D2L
4 hours per week for 14 weeks

Students are expected to attend all classes and engage sufficiently in order to safely apply the content and concepts covered in class in the clinical environment. Pre-reading/preparation and attendance is essential. Attendance will be monitored for each class with marks deducted for all unexcused absences. Missing three or more classes ($\geq 10\%$) increases the risk for students to be unsuccessful in meeting the learning outcomes for this course.

Introduction and Orientation to the Course

Upon completion of this session, students will:

Discuss updated clinical protocols and evaluation for DHYG 370 and DHYG 371.

Assessments Review and Screening Process

- Problem solve challenges associated with acquiring accurate health history information
- Record significant deviations from normal using terminology that meet medico-legal and ethical requirements and complies with CDHBC documentation guidelines.
- Recall the use of RxTx or Medscape to analyze pharmaceutical information for relevance in client care.
- Discuss assessments for diabetes risk, oral dryness, erosive wear, sleep apnea risk.
- Discuss the screening process used at Camosun College

Review of Care Planning, CAL, AAP Diagnosis, Prognosis, Evaluation and Documentation

- Recall the Camosun College Dental Programs' protocols for care planning and evaluation, re-evaluation, documentation and chart auditing
- Determine relevant assessment data needed in care planning of clients using the DH Diagnosis and Care Planning Worksheet.
- Construct appropriate dental hygiene diagnostic statements using the Human Needs Model and periodontal classifications using the 2017 American Academy of Periodontology (AAP) classification scheme.
- Employ the Human Needs theory and social determinants of health in creation of care plans for preventive care and periodontal maintenance clients with diverse medical and/or dental considerations
- Analyze realistic expectations of tissue response for gingivitis and periodontitis
- Audit documentation ensuring practice standards for documentation and comprehensive quality care are completed

Power Scaling

- Recall mechanized instrumentation techniques used in nonsurgical periodontal therapy, periodontal maintenance therapy and prevention.
- Recall similarities and differences between magnetostrictive, piezoelectric, and sonic instrumentation.
- Recall indications and contraindications for mechanized instrumentation
- Recall strategies for appropriate insert or tip selection based on client needs and delivery unit.
- Discuss advanced magnetostrictive tip selection for non-surgical periodontal therapy.

Air Polishing

- Compare and contrast air polishing to conventional rubber cup polishing including technique and client management
- Discuss armamentarium used during air polishing
- Describe set up and maintenance of supra and subgingival air polishing equipment
- Describe techniques for supra and subgingival air polishing using various types of agents, tips and delivery systems
- Discuss indications and contraindications with supra and subgingival air polishing
- Problem solve challenges arising with air polishing

Pit and Fissure Sealants

- Describe sealants and their role in a comprehensive oral health care program
- Discuss research findings regarding sealant retention and caries reduction
- Describe sealant materials and kits
- Explain the steps of sealant application, following the manufacturer's directions
- Explain information to discuss with the client and parent/guardian regarding sealants including the need for follow up visits

Providing Dental Hygiene Care for Children and Youths

- Apply the Infant's Act to dental hygiene practice
- Determine the process of care for children and youth clients.
- Determine modifications required to process of care such as knee to knee examinations and behaviour management strategies when providing care to child and youth clients
- Analyze assessment of the oral conditions in a child's mouth of any age
- Plan care for a child and youth client.
- Discuss nutrition recommendations for children at various ages.
- Assess nutrition of child and youth clients and incorporate into care.
- Generate approaches to involve parents in self-care with children in the office and home environments.
- Identify signs and symptoms of child abuse and the dental hygienist's role in advocacy for the protection of children.
- Prepare to provide care to children and youth with primary and mixed dentition.
- Identify and examine interventions to reduce caries risk (CAMBRA)
- Document findings according to CDHBC guidelines for documentation.
- Discuss communications strategies applicable to children of various ages

Manual and Advanced Instrumentation

- Recall fundamentals of manual instrumentation
- Explain characteristics of and uses for accessory instruments needed for complex periodontal debridement
- Explain debridement around oral appliances
- Problem solve challenges that can occur during debridement

Impression and Study Models

- Explain the rationale for taking impressions and creating study models
- Explain the composition, properties and manipulation of alginate and dental stone.
- Describe possible tissue responses to alginate.
- Explain rationale that influences tray selection.
- Describe the preparation of impression trays prior to taking impressions.
- Explain the purpose and procedure of inter-occlusal records (wax bites).

- Explain conditions that modify or contraindicate obtaining impressions, including precautions.
- Describe approaches for obtaining impressions and inter-occlusal records.
- Explain the preparation of impressions and inter-occlusal records for pouring in the laboratory
- Explain the procedure for pouring impressions
- Explain chart entry for impressions including appropriate symbols, abbreviations and terminology to meet medico-legal requirements.
- Develop criteria for acceptable impressions and study models based on intended purpose
- Describe uses of study models during dental and dental hygiene care.

Case Studies

Discuss rationale for case studies, including content.

- Utilize appropriate strategies to present a case study based on care provided for a client in clinic.

Ergonomics

- Discuss ergonomic positioning for reinforced periodontal positioning including standing position
- Discuss advanced fulcruming during debridement.
- Recall strategies to support long term clinician health during the provision of hygiene care

Amalgam and Composite Restorations, Margination and Polishing

- Discuss the characteristics of various direct and indirect dental restorative materials
- Explain the composition, preparation, placement, and finishing of restorative materials
- Recognize how dental materials and techniques used to restore the teeth and surrounding oral structures, affect the delivery of dental hygiene care.
- Describe the interaction between specific dental materials and the surrounding oral tissues.
- Compare and contrast the use, benefits, drawbacks and safety of amalgam, composite, porcelain, and gold restorative materials
- Explore research pertaining to safety concerns of dental materials
- Discuss the purpose of margination along with the techniques and armamentarium involved with the margination of amalgam and composite materials
- Discuss the purpose of polishing amalgam along with the technique and armamentarium involved.

Sleep Apnea

- Recognize the signs and symptoms of Obstructive Sleep Apnea.
- Describe the risk factors and consequences associated with OSA.
- Describe the dental hygienist's role in screening and protocol for referral for OSA
- Describe the options to treat OSA including oral appliance therapy.

Pulp vitality

- Recall sources of tooth sensitivity.

- Analyze assessment approaches to gain data related to areas of tooth sensitivity.
- Compare and contrast approaches used to determine the health of the pulp (including but not limited to ice, percussion, heat, radiographs, electric vitality testing).
- Discuss causes, diagnosis and treatment of reversible and irreversible pulpitis.

Oral Cancer Risk Assessment

- Recall common risk factors for oral cancer and health promotion strategies to decrease risk for diverse groups.
- Recall the use and significance of fluorescent visualization (Velscope™)
- Discuss the use of Toluidine Blue in assessing tissue changes in the oral cavity.
- Discuss BC Cancer protocols for lesion monitoring and referral

Dental Specialties

- Review the various dental specialties.
- Discuss the armamentarium used and the process of care provided with the varying types of dental specialties.
- Discuss referrals as they relate to dental specialties.

Dentures and Denture Care and Maintenance

- Recall the criteria for denture assessment.
- Recall the components of a denture and labelling process.
- Recall providing client education prior to placement of immediate and conventional
- Recall the dental hygienist's role in cleaning and maintenance of dentures.

Whitening Process

- Explain the chemical process of whitening
- Analyze options available for whitening internal and external staining
- Describe relative contraindications and safety of whitening
- Describe the fabrication and benefits of whitening trays
- Discuss the process of care in providing a client with a whitening system

Temporary Restorations, Dental Dam, Instrument Transfer, and Interim Stabilization Therapy

- Explain the composition, mixing, placement, and finishing of IRM restorations
- Discuss the benefits of dental dam use in dentistry
- Discuss the materials and instruments used in rubber dam placement
- Discuss the procedure of placing a rubber dam
- Discuss the benefits of successful instrument transfer
- Explain the purpose of interim stabilization therapy and the technique involved.

Implants

- Describe the characteristics of implants in various stages of health and disease.
- Describe techniques for debridement of dental implants
- Describe self-care protocols for dental implants
- Explain rationale for continuing care intervals for clients with dental implants

Sports Guards

- Explain the role of mouth guards in promoting oral health.
- Determine the appropriate mouthguard for various classifications of static occlusion.

- Analyze trends in sports-related injuries including the relationships of dental trauma to concussions
- Describe the fabrication steps and types of sports guards

Professionally Applied Subgingival Irrigation

- Discuss indications for use of professional subgingival irrigation, equipment, and technique in the prevention and treatment of inflammatory periodontal disease
- Distinguish between the various modes of delivery available for the clinician's application of chemotherapeutics in professional settings.
- Compare various agents used for subgingival irrigation.

Utilize information about nutritional standards and guidelines including Canada's Food Guide in nutritional analysis and client counselling.

- Describe the role of the dental hygienist in nutrition counselling as part of comprehensive dental hygiene care.
- Identify nutritional requirements for optimum health using the recommendations and guidelines for healthy eating, from Canada's Food Guide (CFG).
- Describe the process of involving a client in the completion of a food record from client selection criteria, written details of diet and patterns and non-directive nutrition counselling techniques.
- Analyze personal and other food choices and make recommendations for alternative food choices and eating patterns, which promote both general and oral/dental health.
- Develop comprehensive written communication that would best inform clients on the relationship between good nutrition and general health as well as oral health as indicated in a dietary analysis.
- Discuss food factors such as; culture, budget, preparation and patterns that affect nutritional choices for individuals of any age and cultural diversity.
- Counsel a client on nutritional management based on analysis of a client food record as related to the guidelines for healthy eating and the CFG and associate dietary habits to oral and general health.
- Incorporate a variety of communication strategies such as non-directive techniques (as presented in DHYG 264)
- Utilize information gained on the relationship between fermentable carbohydrates and dental caries from DHYG 219 when providing nutritional recommendations when counseling.

5. Basis of Student Assessment (Weighting)

Assignments:

a) Literature Review	25%
b) Child Case Presentation	10%
c) Integration Exercises	10%
d) Participating and Attendance	5%

Exams

a) Midterm	25%
b) Final	25%

Students must receive a minimum of 70% in both the assignment and examination components for evaluation in order to pass this course.

6. Grading System

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

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

2019 Health History Manual
2019 Dental Programs Safety Manual

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.