



CAMOSUN COLLEGE
School of Health & Human Services
Dental Programs

DHYG 371
Clinical Practice 3
Semester 1–Fall 2018

COURSE OUTLINE

The Approved Course Description is available on the web @

<http://camosun.ca/learn/school/health-human-services/student-info/archives/index.html?p=DHYG+%28Dental+Hygiene%29>

1. Instructor Information

	Leta Zaleski
(b) Office hours	As posted or by arrangement via email.
(c) Location	Dental Building Room 003
(d) Phone	250-370-3453
(e) E-mail	zaleskil@camosun.bc.ca
(f) Website	D2L will be used for select powerpoint postings

2. Course Description

- a. This course builds on DHYG 281 with a focus on applying clinical theory to clinical practice with clients of a variety of ages and increased complexity. Students provide dental hygiene services in the onsite clinic assuming increasing responsibility while being mentored.
- b.
 - i.) Pre-requisites: DHYG 221, DHYG 222, DHYG 231, DHYG 246, DHYG 280, DHYG 281, BIOL 260
 - ii.) Co-requisites: DHYG 370,
 - iii.) Pre/Co-requisites: DHYG 310, DHYG 321, DHYG 390
- c. Course Particulars:
 - i.) Credits: 5.0
 - ii.) Components: Class Hours: 17 hours/week
 - iii.) Course is not available by distance.
 - iv.) Prior learning is not available for this course.

3. Required Materials

Texts

Darby, M. & Walsh, M. (2015). *Dental hygiene theory and practice*. 4rd Ed. St Louis Missouri: Saunders.

Clinic Manual. Camosun College Dental Hygiene Program; 2018-2019.

Reference Materials

Gladwin, M. & Bagby, M. (2017). *Clinical aspects of dental materials theory, practice and cases*. 5th Ed. Philadelphia: Lippincott Williams & Wilkins.

Little, J.W., Falace, D.A., Miller, C.S., and Rhodus, N.L. (2018). *Dental management of the medically compromised patient*. 9th Ed. St-Louis, Missouri: Mosby Elsevier.

Articles: TBA

Other:

Kilgore dental model (from 2nd year kit)

4. Intended Learning Outcome

Learning Outcomes for DHYG 371 Clinical Theory 3	Program (Global) Outcomes (FYI)
<p>Upon successful completion of this course a student will be able to:</p> <ol style="list-style-type: none"> 1. Practice professionally in a clinical setting. (A) 2. Apply evidence based practice, critical thinking and problem solving skills in working with clients and the dental team. (C) 3. Demonstrate consistent and effective written, oral and expressive communication in dental hygiene practice. (B, E) 4. Consistently demonstrate practices that ensure health, safety, and well-being of self and others within the broader clinical setting. (D, E, F) 5. Provide dental hygiene services for clients with increasingly complex oral and general health conditions, integrating biological and dental sciences. (F, G) 6. Apply knowledge of health promotion principles to individual client care. (H) 	<ol style="list-style-type: none"> A. <i>Function as a professional dental hygienist.</i> B. <i>Communicate and collaborate effectively with individuals, family, community and interdisciplinary teams.</i> C. <i>Demonstrate critical thinking and use evidence based decision-making to provide optimal dental hygiene services to individuals, families and community.</i> D. <i>Advocate to improve oral health and access to oral health services for individuals, families and community.</i> E. <i>Coordinate and contribute to the effective management of the practice environment to ensure quality care and services.</i> F. <i>Function as a competent clinician using the dental hygiene process of care.</i> G. <i>Educate individuals, families and community about oral health including its relationship to general health.</i> H. <i>Apply health promotion principles to improve the health of individuals, families and community.</i>

5. Course Elements and Outcomes

Introduction and Orientation to the Course

Upon completion of this session, you need to be able to:

1. Review clinic manual protocols
2. Review content and uses of emergency kit.
3. Review use of oxygen in case of need in a medical emergency
4. Demonstrate Camosun College emergency protocols for earthquake, client emergency care (PERT) and percutaneous and mucous membrane injuries

ADPIE Process of Care on Student Partner

Upon completion of this session, you need to be able to:

1. Prepare the clinic for client care
2. Perform the ADPIE process of care on a student partner

Instrumentation Review on Student Partner

Upon completion of this session, you need to be able to:

1. Practice professionally, safely, ethically following infection control guidelines and clinical protocols
2. Demonstrate the fundamentals of instrument sharpening including moving instrument-stationary stone technique
3. Demonstrate the fundamentals of exploring, indirect vision and instrumentation using a variety of instruments

Review of Reception and Dispensary Duties

Upon completion of this session, you need to be able to:

1. Use best practice standards in the dispensary and reception area.
2. Utilize teamwork in supporting safe and effective care in the clinical setting
3. Review of Exan for treatment records.

Mass screenings

Upon completion of this session, you need to be able to:

1. Perform a screening on a peer client.
2. Document appropriately.

Power Scaling Instrumentation. Review of Piezo tips Standard, P, PS, PL 1 and PL 2 (right and left)-and introduce-Magnetostrictive FSI 1000 and Curved tips (right and left)

Upon completion of this session, you need to be able to:

1. Practice as a professional to support client safety and positive oral health outcomes.
2. Select an appropriate power instrument tip for clients with diverse treatment needs.
3. Demonstrate fundamentals of power scaling instrumentation with various inserts
4. Demonstrate effective water control with high volume evacuation
5. Document appropriately according to CDHBC guidelines

Supra and Subgingival Air Polishing

Upon completion of this session, you need to be able to:

1. Demonstrate fundamentals of air polishing both sub and supragingivally including unit set up, maintenance, and technique on a student partner.
2. Choose an appropriate air polishing agent for specific applications.

Pit and Fissure Sealants

Upon completion of this session, you need to be able to:

1. Identify and provide rationale for sealant placement.
2. Demonstrate fundamentals of sealant placement and evaluation on a student partner
3. Document appropriately according to CDHBC guidelines

Children and Youth

Upon completion of this session, you need to be able to:

1. Employ the ADPIE process of care for children and youth clients.
2. Determine and perform modifications such as knee to knee examinations and behaviour management strategies when providing the process of care to child and youth clients
3. Analyze assessment findings for children of various ages.
4. Generate approaches to involve parents in self-care with children in the office and home environments.
5. Identify signs and symptoms of child abuse and the dental hygienist's role in advocacy for the protection of children.
6. Document care according to CDHBC guidelines for documentation.

Manual and Advanced Instrumentation

Upon completion of this session, you need to be able to:

1. Utilize accessory instruments for complex periodontal debridement on clients.
2. Utilize effective methods and instruments for debridement of appliances and implants.
3. Problem solve challenges that can occur during debridement

Ergonomics and Advanced Fulcruming

Upon completion of this session, you need to be able to:

1. Demonstrate ergonomic positioning for reinforced periodontal positioning including standing position
2. Determine when advanced fulcruming is needed to support instrumentation principles for clients with complex needs.
3. Demonstrate advanced fulcruming during debridement.
4. Perform strategies to support long term clinician health during the provision of hygiene care

Pulp vitality

Upon completion of this session, you need to be able to:

1. Identify sources of tooth sensitivity.
2. Determine the health of the pulp (including but not limited to ice, percussion, heat, radiographs, electric vitality testing).
3. Discuss causes, diagnosis and treatment of reversible and irreversible pulpitis.
4. Document appropriately according to CDHBC guidelines.

Professionally Applied Subgingival Irrigation

Upon completion of this session, you need to be able to:

1. Demonstrate the use of subgingival irrigation in the prevention and treatment of inflammatory periodontal disease
2. Identify and use the various modes of delivery available for application of chemotherapeutics in professional settings as needed.
3. Document appropriately according to CDHBC guidelines.

Impressions

Upon completion of this session, you need to be able to:

1. Demonstrate effective technique to acquire a useful impression for sport guard and whitening tray fabrication.
2. Apply strategies to maximize client comfort.
3. Demonstrate effective technique to acquire an inter-occlusal wax bite.
4. Apply appropriate infection control procedures while taking impressions and prepare the impression for pouring.
5. Document appropriately according to CDHBC guidelines.

Pouring and Trimming Study Models

Upon completion of this session, you need to be able to:

1. Utilize safety protocols in the laboratory setting following infection control guidelines.
2. Demonstrate effective mixing and pouring of dental stone into impressions.
3. Demonstrate trimming according to guidelines for a working model and effective horseshoe trim of study model suitable for sports guard and whitening tray fabrication.

Sport Guard Fabrication

Upon completion of this session, you need to be able to:

1. Determine the most appropriate type of sport guard using a client centered approach.
2. Demonstrate safe lab techniques following infection control protocols.
3. Employ best practice standards for the fabrication of sports guards.
4. Provide appropriate self-care instructions for sports guards to a client.
5. Deliver a custom sport guard to a peer/client.

Whitening Tray Fabrication

Upon completion of this session, you need to be able to:

1. Demonstrate safe lab techniques following infection control protocols.
2. Employ best practice standards for the fabrication of a custom whitening tray.
3. Delivery of whitening system to client/peer.
4. Monitor and evaluate delivery of whitening system.

Administration of Local Anesthetic

Upon completion of this session, you need to be able to:

1. Demonstrate safe and effective acceptable administration of intraoral maxillary and mandibular injections.
2. Calculate dose administered and compare to safe doses and document appropriately.
3. Problem-solve issues that arise with the administration of local anesthetic.

Facilitating Learning with DHYG 271 students

Upon completion of this session, you need to be able to:

1. Assess the instrumentation abilities of a second year student.
2. Provide constructive feedback to a second year student.
3. Support the second year student in self-assessing their abilities.
4. Facilitate the acquisition of instrumentation abilities by the second year student.
5. Evaluate the outcomes of the learning session with input from the second year student.
6. Guide the ADPIE process of care for a second year student while being their mock client.

IRM Temporary Restorations, Instrument Transfer, Rubber Dam, Margination

Upon completion of this session, you need to be able to:

1. Demonstrate satisfactory mixing, placement and finishing of IRM in a Class II cavity preparation on a manikin.
2. Transfer instruments safely to a peer during IRM placement.

3. Employ best practices to place a rubber dam on a manikin
4. Utilize a variety of discs, strips and instruments to marginate composite and amalgam restoration on manikins.
5. Document appropriately according to CDHBC guidelines.

Clinic Maintenance and Instrument Kit Review

Upon completion of this session, you need to be able to:

1. Complete clinic maintenance procedures
2. Evaluate instruments for replacement

During all clinical sessions when working on peers or clients students must:

- Consistently demonstrate professional behaviour.
- Demonstrate consistent accountability and responsibility for decisions and actions.
- Communicate effectively with people involved with care.
- Maintain infection control and safely operate equipment.
- Practice ergonomically to support personal health.
- Manage the practice environment to support client safety, comfort and well-being.
- Integrate evidence and theory from the behavioural, oral health and general health sciences into the dental hygiene process of care.
- Manage records using approaches and terminology that meet medico legal and ethical standards and that comply with the CDHBC documentation guidelines.
- Maintain confidentiality of client information and records.
- Self-evaluate clinical performance using instructor and peer input.
- Integrate the ADPIE process to provide holistic, comprehensive and quality dental hygiene care.

Assessment

1. Internalize and consistently demonstrate an efficient sequence and technique to ensure accurate, thorough and complete assessment.
2. Assess clients of variety of age groups including children and youths.
3. Competently assess clients presenting for preventive and periodontal maintenance as well as children and youth in a maximum of two appointments.

Diagnosis

1. Utilize relevant assessment data to accurately determine risk for conditions affecting the oral complex including caries, periodontal diseases, oral cancer, and sleep apnea.
2. Utilize relevant assessment data to create accurate dental hygiene diagnostic statements.
3. Accurately determine the American Academy of Periodontology (AAP) periodontal classifications with minimal guidance.

Planning

1. Plan dental hygiene care based on assessment data, diagnosis, social determinants of health, prognosis, client values and expectations for clients of a variety of ages including children.
2. Utilize the Human Needs Model and consider social determinants of health in the planning process.
3. Determine SMART goals (specific, measurable, attainable, realistic, timely) for client care.
4. Utilize principles of health promotion in the planning process.

Implementation

1. Provide all planned interventions.
2. Demonstrate sound, safe and effective instrumentation
3. Evaluate clinical end-point based on tactile detection and tissue response on clients of varying challenges.

Evaluation

1. Evaluate the actual outcomes against expected outcomes to determine the success of dental hygiene care
2. Summarize plan, care and prognosis, including setting appropriate care intervals and any necessary referrals

Chart Audit and Quality Assurance

1. Perform chart audits to ensure documentation of care is complete and accurate and complies with CDHBC documentation guidelines.
2. Perform quality assurance audits to ensure the provision of complete, comprehensive quality care for all clients.

Radiographs and Imaging (during radiography lab sessions and client clinics)

1. All radiographs taken on clients' or on Dental X-ray Teaching Training Replica's (DXTTR's) require adherence to radiation safety and protection guidelines.
2. Identify when radiographs are required for caries detection or periodontal assessment with assistance.
3. Successfully expose a full mouth series of digital radiographs (minimum of 12 films in one hour) on a client following clinic protocols.
4. Use appropriate interpersonal skills and strategies to increase the client's physical and psychological comfort during radiograph exposures.
5. Complete the following dental radiographs and / or exercises: pedo full mouth series (bisecting the angle technique), occlusal, localization, distal oblique, digital films and panorex with minimal assistance.
6. Process radiographic films automatically, following infection control guidelines, with minimal guidance.
7. Assess the diagnostic acceptability of all images taken, problem-solving any deficiencies, with guidance.
8. Interpret radiographs, identifying normal anatomic landmarks, restored conditions, periodontal status, caries, artifacts and suspected pathologies etc.
9. Describe components to set up for imaging including camera and computer and demonstrate infection control required for intraoral imaging.

10. With a high-resolution camera, take a set of images commonly used in a case presentation (i.e., portrait, lateral head view, full anterior view, occlusal). Details to be provided during lab sessions.
11. Manage digital and paper files using transfer and storage protocols, with appropriate consent from clients (radiographic and digital images)
12. Document all exposures and/or images as required in client records.

6. Basis of Student Assessment (weighting)

The student must satisfactorily:

1. Meet all course learning outcomes
2. Submit Self-Evaluation and Progress Report at week 4, mid-term and end-of-term on D2L
3. Complete all documentation required for client care (including chart audits and quality assurance)
4. Satisfactorily complete all formative and summative evaluations by due dates as indicated on summative/formative form.
5. Complete all client requirements by the end of term.

Evaluating students in an authentic environment presents challenges in that each client is different and therefore no two experiences are identical. However, the benefits of authentic evaluation (ie: learning in a “real work environment”) far outweigh the challenges by providing students with a range of experiences like the variety of clients a hygienist would see in a clinical setting.

Instructors meet regularly to review student performance. Students are assigned clinical advisors. Advisors are available to assist students in understanding their clinical feedback.

Clinical Expectations:

Attendance is required for all scheduled teaching and client clinical sessions.

- **Notification if away:** Students who must be absent due to health or other emergency reasons are to notify the respective DH2 or DH3 lead clinic instructor, the clinic advisor and the Instructional Assistant by email first thing in the morning (or sooner).
- Students may be assigned additional clinical duties if a clinic is missed to meet the learning outcomes.

Professionalism and Deportment

- Students must demonstrate professionalism and deportment at all times.
- Students must come to mid and end of term meetings prepared (ex. Tracking is up-to-date, all documentation is completed including appropriate signatures).
- Students must demonstrate self-directed learning (ex. managing clients through appropriate scheduling and planning, etc.)

Student Clinic Binder

Each student is responsible for maintaining their own complete and accurate clinic binder containing the following information. **This binder must be up to date (signatures, tracking completed, forms filled out) by Friday of each week.**

- Weekly Progress Record for each week with remediation deliverables attached
- Summary of client care for each client (child, preventive, periodontal maintenance, periodontal therapy)
- Client Care Tracking Forms
- Summative and Formative Skill Forms associated with each evaluation
- CA, Screener and Reception Forms
- Radiography Requirements
- Local Anesthetic Requirements
- 4 Week Self-Evaluation, Midterm and End of Term Self-evaluations and Progress reports

Binders must be kept in a locked file cabinet located at the teaching end of the clinic and **may not leave the clinic area**. It is the student's responsibility to ensure the safe keeping of these documents and grades. **If any Weekly Progress Record or Summary of Client Care forms (grades) are lost the student must complete another client to make up for the loss.** During clinic, the binders must be chairside and be available for instructors.

Instruments: Students must have two full sets of instruments in good condition. Instructors will assist in evaluating instruments. Unsafe instruments must be immediately removed from student kits and replaced as soon as reasonably possible.

Student Rotations for Clinic

The class is divided into four teams (three for teaching clinics). Units for each team will be assigned by section. Students are required to utilize assigned units whenever possible. Three Clinic assistants will be assigned to all clinics; one of which will be a screening clinic assistant. Reception duties are also assigned. In extenuating circumstances, students may exchange scheduled dates with peers **and are required to record all changes on the master list in the dispensary and let the Clinic Supervisors and the Instructional Assistant know of changes.**

Daily Preparation for Clinic

As an adult learner, it is the student's responsibility to participate in the learning process and to be prepared to ask/answer questions and participate in discussions. It is expected that the student will have completed all assigned pre-reading for preparation to practice each procedure in the clinic, to achieve competence in clinical procedures, and to provide comprehensive dental hygiene care with clients.

7. Grading System

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
DST	The student has met and exceeded, above and beyond expectation, the goals, criteria, or competencies established for this course, practicum or field placement
COM	The student has met 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.

A. 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://camosun.ca/search/?q=grading+policy> 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.

8. Recommended Materials or Services to Assist Students to Succeed Throughout the Course

LEARNING SUPPORT AND SERVICES FOR STUDENTS

There are a variety of services available for students to assist them throughout their learning. This information is available in the College Calendar, Student Services or the College web site at

<http://www.camosun.bc.ca>

If you require additional support services due to a disability, please contact the Centre for Accessible Learning:

camosun.ca/services/accessible-learning/

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 web site in the Policy Section. Additional information regarding the dental hygiene program is in the student handbook.

<http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.5.pdf>