Area of Interest: Health Sciences

Dental Hygiene

Ontario College Advanced Diploma

Academic Year: 2019/2020

3 Years

Program Code: 1927X01FWO

Ottawa Campus

Our Program

Give people a reason to smile.

The three-year Dental Hygiene Ontario College Advanced Diploma program, delivered over two and a half years, combines theory and hands-on skills to prepare you for a challenging and rewarding career in preventive dental health care. It allows you to fulfill the role of the dental hygienist as researcher, advocate, educator, administrator, clinician and health promoter.

This program teaches you how to provide safe and effective dental hygiene care in collaboration with the client, community, and other healthcare providers. This happens through a variety of learning experiences including seminars, case presentations and on-site and off-site practicums. You provide preventive services in our on-site dental clinic under the supervision of Registered Dental Hygienists and Dentists. These experiences increase your employability upon graduation and help prepare you for the workforce.

This program is accredited by the Commission on Dental Accreditation of Canada. Graduates are eligible to write the National Dental Hygiene Certification Exam, which, once passed, allows you to register with the College of Dental Hygienists of Ontario.

Once registered as a Dental Hygienist, you may find employment working in:

• general and specialty practices
• healthcare facilities
• community health settings
• research and education
• dental sales
• dental supply companies

SUCCESS FACTORS:

This program is well-suited for students who:

• Are self-directed.
• Are critical thinkers.
• Are able to manage time and a demanding workload.
• Possess excellent communication and interpersonal skills.
• Are detail-oriented, organized and committed to achieving excellence in their work.

Employment

Graduates may find employment as dental hygienists working in general and specialty practices, healthcare facilities, such as hospital dental clinics and long-term care facilities, community health settings, research and education, dental sales and dental supply companies.
Dental Hygiene

Graduates must hold a credential as a Registered Dental Hygienist to practise in Ontario. In the final level of the program, students apply to the National Dental Hygiene Certification Board (NDHCB) to write the national exam upon graduation. Successful candidates are then eligible to apply for registration with the dental hygiene regulatory body in Ontario, the College of Dental Hygienists of Ontario (CDHO).

Learning Outcomes
The graduate has reliably demonstrated the ability to:

• Practise in a professional and competent manner within the defined scope of practice and consistent with current regulations and standards of practice.

• Evaluate clients’ oral health status using determinants of health and risk analysis to identify needs, justify treatment decisions and provide appropriate referrals to other health care professionals as required.

• Design, implement and evaluate a range of primary, interceptive, therapeutic, preventative and on-going oral health-care services to meet the unique needs of clients.

• Analyze oral health issues in need of advocacy, identify networks and promote actions that will support change and facilitate access to care.

• Identify, select, implement and evaluate quality assurance standards and protocols which contribute to a safe and effective working environment.

• Establish and maintain professional and inter-professional relationships which contribute to client-care safety and positive health-care outcomes.

• Facilitate the development of specific oral health attitudes, knowledge, skills, and behaviours in clients by selecting and utilizing principles of teaching and learning.

• Develop and present a model for dental hygiene practice that addresses relevant business principles, current legislation and standards of practice.

• Identify and apply discipline-specific practices that contribute to the local and global community through social responsibility, economic commitment and environmental stewardship.

Program of Study

<table>
<thead>
<tr>
<th>Level: 01</th>
<th>Courses</th>
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<tbody>
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<td>BIO4323</td>
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<td>DEN4416</td>
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<td>DEN4418</td>
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### Dental Hygiene

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<td>DEN4424</td>
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<td>Community Dental Health Promotion</td>
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<td>Professional Issues and Ethics</td>
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<td>DEN4459</td>
<td>Clinic Practice Essentials II</td>
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<td>DEN4460</td>
<td>Business Concepts</td>
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<td>DEN4462</td>
<td>Evidence-Informed Practice I</td>
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<td>DEN4480</td>
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<td>Dental Hygiene Practice Management</td>
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<td>DEN4472</td>
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<td>Comprehensive Case Studies</td>
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<td>DEN4482</td>
<td>Oral Health Outreach II</td>
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### Fees for the 2019/2020 Academic Year

Tuition and related ancillary fees for this program can be viewed by using the Tuition and Fees Estimator tool at [http://www.algonquincollege.com/fee-estimator](http://www.algonquincollege.com/fee-estimator).

Further information on fees can be found by visiting the Registrar`s Office site at [http://www.algonquincollege.com/ro](http://www.algonquincollege.com/ro).

Fees are subject to change.

Additional program related expenses include:

The fees to write the National Dental Hygiene Certification Exam (NDHCE) and to obtain CDHO registration are approximately $1,150, plus applicable taxes (subject to change). These fees are current at the time of publication and are subject to change. Further information may be obtained...
Dental Hygiene

by browsing the CDHO (http://www.cdho.org/) and NDHCB (http://www.ndhcb.ca/) websites. Hardcopy books, supplies and clinical items (uniforms, clinic shoes, lab coat, exam gloves, protective eyewear, masks, gowns and loupes (optional) cost approximately $7,500 (subject to change) for the program duration. See http://www3.algonquincollege.com/etextbooks for more information about books. Select items can be purchased at the campus store.

Admission Requirements for the 2020/2021 Academic Year

College Eligibility

- Ontario Secondary School Diploma (OSSD) or equivalent. Applicants with an OSSD showing senior English and/or Mathematics courses at the Basic Level, or with Workplace or Open courses, will be tested to determine their eligibility for admission; OR
- Academic and Career Entrance (ACE) certificate; OR
- General Educational Development (GED) certificate; OR
- Mature Student status (19 years of age or older and without a high school diploma at the start of the program). Eligibility may be determined by academic achievement testing for which a fee of $50 (subject to change) will be charged.

Program Eligibility

- English Grade 12 (ENG4C or equivalent) with a grade of 65% or higher.
- Mathematics Grade 11 or 12 (MBF3C or MAP4C equivalent) with a grade of 65% or higher.
- Biology Grade 11 or 12 with a grade of 65% or higher.
- Chemistry Grade 11 or 12 with a grade of 65% or higher.
- All applicants must complete an assessment through the Test Centre, and will be required to pay the current fee of $50 (subject to change). Results from the health program assessment will be utilized to establish minimum eligibility and also ranked, with the highest ranked applicants given priority admission. The health program assessment can only be written once per academic cycle.
- International applicants must provide proof of the subject specific requirements noted above along with proof of either: (IELTS / TOEFL) IELTS-International English Language Testing Service (Academic) Overall band of 6.5 with a minimum of 6.0 in each band; OR TOEFL-Internet-based (iBT)-overall 88, with a minimum of 22 in each component: Reading 22; Listening 22; Speaking 22; Writing 22.
- Applicants with international transcripts must provide proof of the subject specific requirements noted above and may be required to provide proof of language proficiency.

International Applicants: International applicants who meet the program eligibility requirements are required to complete preparatory courses (4-months in duration): Introduction to Canadian Health Studies (ICHS). Students who successfully complete the introduction will then proceed to their original health program of choice. The ICHS requires applicants to submit an academic IELTS score.

Accepted applicants must:

Complete ParaMed Requirements:

- Vulnerable Sector Police Check (annual).
- Clinical/Field Pre-Placement Health Form by week 8 of Program Start Date.
- Immunization for Hepatitis B is required.
- An immunization form for returning students must be submitted prior to the start of Level 04.

Please click this link for more information http://file:///C:/Program%20Files%20(x86)/Algonquin%20College%20(ITS)/Monographs/href=. 
• Provide evidence of a current Cardio-Pulmonary Resuscitation Training - C.P.R. Basic Rescuer C Level certification. This requirement must remain current until all program requirements are met.

• Provide evidence of a current Standard First Aid (13-hour course) certification. This requirement must remain current until graduation from the program.

• Provide evidence of Workplace Hazardous Materials Information System (WHMIS) and Ontario Health and Safety Awareness (OHSA) Training certification. These courses meet program requirements are free to registered students and can be accessed through the Algonquin College website: [link]

Successful completion of clinical placement is a requirement for graduation from the Dental Hygiene program. Agencies that provide placement opportunities require you to have a clear Police Records Check for Service with the Vulnerable Sector (PRCSVS). Your acceptance for placement is at the discretion of the agency. If you register in the program without a clear PRCSVS and as a result are unable to participate in placement, you will not be able to graduate.

Lab, Clinic and Placement Eligibility:
To be eligible to participate in lab, clinic and placement activities, you must submit proof of a clear PRCSVS, which will be retained on your departmental file and used only for purposes related to your lab, clinic and placement activities.

It is your responsibility to obtain the PRCSVS from your local Police Department prior to the deadline identified by your Department and to pay any associated costs. It may take 8-10 weeks to obtain this documentation; please submit your application as early as possible. Should you require further information, contact the Program Chair.

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**Application Information**

**DENTAL HYGIENE**

Program Code 1927X01FWO

Applications to full-time day programs must be submitted with official transcripts showing completion of the academic admission requirements through:

ontariocolleges.ca
60 Corporate Court
Guelph, Ontario N1G 5J3
1-888-892-2228

Students currently enrolled in an Ontario secondary school should notify their Guidance Office
prior to their online application at [http://www.ontariocolleges.ca/](http://www.ontariocolleges.ca/).

Applications for Fall Term and Winter Term admission received by February 1 will be given equal consideration. Applications received after February 1 will be processed on a first-come, first-served basis as long as places are available.

International applicants please visit this link for application process information: [https://algonquincollege.force.com/myACint/](https://algonquincollege.force.com/myACint/).

For further information on the admissions process, contact:

Registrar`s Office
Algonquin College
1385 Woodroffe Ave
Ottawa, ON K2G 1V8
Telephone: 613-727-0002
Toll-free: 1-800-565-4723
TTY: 613-727-7766
Fax: 613-727-7632
Email: [mailto:AskUs@algonquincollege.com](mailto:AskUs@algonquincollege.com)

Additional Information

Programs at Algonquin College are Bring Your Own Device (BYOD). To see the BYOD requirements for your program, please visit: [http://www7.algonquincollege.com/byod/](http://www7.algonquincollege.com/byod/).

Please be advised that the Dental Hygiene program may have evening and Saturday classes scheduled.

**Academic Year Schedule:**

**Year 1:**
- Level 01: September-December
- Level 02: January-April
- Level 03: May-August

**BREAK TERM: SEPTEMBER-DECEMBER**

**Year 2:**
- Level 04: January-April
- Level 05: May-August
- Level 06: September-December

Students should be aware that if a course is in a failing position at the end of the term, a Supplemental Privilege (FSP) may be granted if warranted. FSP evaluations may be scheduled for the week prior to the start of the next term. Students must be available for FSP evaluations during this time period.

Completion of all Level 01, 02 and 03 requirements is mandatory before progressing to the subsequent levels of the program.

For more information, contact Michelle Atkinson, Curriculum Coordinator, at 613-727-4723 ext. 6317 or [mailto:atkinsm@algonquincollege.com](mailto:atkinsm@algonquincollege.com) or Lori Morley, Administrative Assistant, at 613-727-4723 ext. 5086 or [mailto:morleyl@algonquincollege.com](mailto:morleyl@algonquincollege.com).

**Course Descriptions**

**BIO4322 Microbiology I**

Knowledge of various microorganisms, their biological behaviour and interactions with the host, are essential to the understanding of infection control and disease development within the practice of dental hygiene. Students recognize disease-causing microorganisms, normal microbial flora of the oral cavity, the rationale of aseptic procedures, the basis of antimicrobial actions and general principles relevant to epidemiology.

Prerequisite(s): none
Corerequisite(s): none
BIO4323 Human Anatomy and Physiology
Dental hygienists require a solid understanding of the human body to identify connections between general and oral health. Focus is on the structure and function of the four primary tissues, body membranes and systems and how they interact to promote health. Body systems covered include musculoskeletal, nervous, endocrine, cardiovascular, lymphatic, respiratory, urinary and reproductive.
Prerequisite(s): none
Corequisite(s): none

BIO4324 Head and Neck Anatomy
Knowledge of anatomical aspects of the head and neck are essential to the practice of dental hygiene. Focus is placed on the relationship between structure and function of orofacial bones, muscles, nerves, blood vessels and lymphatics. Through lectures, examination of anatomical models and interactive mediums students gain knowledge to perform comprehensive client examinations.
Prerequisite(s): BIO4323 and DEN4300
Corequisite(s): none

BIO4326 Microbiology II
The theory of oral microbiology is applied in a laboratory setting. The relationship of dental plaque biofilm to oral disease is articulated during interactive exercises. Laboratory sessions explore the concepts of infection control and disease prevention. Class lectures validate the theory of processing contaminated instruments safely and effectively, antibiotic resistance and susceptibility, theories of oral malodor and pandemic preparedness. Through lectures, laboratory sessions, class presentations and evaluations consolidation of oral microbiology knowledge is demonstrated.
Prerequisite(s): BIO4322
Corequisite(s): none

BIO4328 Oral Histology and Embryology
Knowledge of the tissues of the body, development of the structures of the head and neck, embryology of the teeth and recognizing abnormalities are important to the practice of dental hygiene. Evaluations, clinical slides, diagrams and class discussions prepare students for the understanding of advanced courses.
Prerequisite(s): BIO4323 and DEN4300
Corequisite(s): BIO4324 and DEN4412

BIO4331 Oral Pathology I
Understanding the basic principles of general pathology, recognizing variations of normal findings and oral pathology processes are essential to the practice of dental hygiene. Students learn to recognize lesions, conditions, risk factors and manifestations of oral disease processes in order to identify the need for referral. Evaluations, clinical slides and class discussions focus on the description and documentation of findings in the clinical setting.
Prerequisite(s): BIO4324 and BIO4328 and DEN4412 and DEN4422
Corequisite(s): BIO4333

BIO4333 Human Pathophysiology
Knowledge of the disease process and specific disease conditions is essential for evaluation of a comprehensive health history. Students explore how alterations in homeostatic mechanisms can disrupt the human body. Mechanisms of disease are studied by systems and examined for the effect they produce on the structure and function of the body, as well as the impact they have on the oral environment. Common diseases are used to illustrate concepts.
Dental Hygiene

Prerequisite(s): BIO4324 and BIO4326 and BIO4328
Corerequisite(s): DEN4428 and DEN4430 and DEN4432

BIO4334 Oral Pathology II

The differential diagnosis of relevant oral lesions, biopsy indications, techniques and adjunctive diagnostic procedures are explored. Emphasis is placed on the histologic, radiographic and immunologic features of the oral and perioral findings. Collaboration between dental hygienists and other health professionals is articulated to achieve the best outcomes of oral and systemic health. Students consolidate knowledge of oral lesions, conditions and the documentation of the findings.

Prerequisite(s): none
Corerequisite(s): none

DEN4300 Dental Anatomy

Knowledge of dental terminology is the foundation for understanding and learning the content of other dental-related courses. Students learn anatomy and functional relationships of dental structures. Students are also introduced to hard and soft tissue components of the client's chart and practise recording oral conditions on charting forms.

Prerequisite(s): none
Corerequisite(s): none

DEN4321 Radiography Practicum II

Production of diagnostically useful radiographs requires careful image exposure and processing techniques. Through laboratory practice on manikins, students apply the basic concepts of radiography theory to the production of adult periapical and bitewing radiographs. Radiographic technique is assessed during simulated exercise on an adult client. Panoramic and film radiographic techniques are introduced. Digital images are critiqued for diagnostic acceptability. Safety precautions required in the operation of dental x-ray equipment are emphasized.

Prerequisite(s): DEN4300 and DEN4453
Corerequisite(s): none

DEN4409 Preclinic Practicum I

Practical experiences relate to the concepts and principles of instrumentation. These skills are taught and performed on a manikin. Through role play, students practise basic emergency responses. Standard infection control procedures are also introduced and practised.

Prerequisite(s): none
Corerequisite(s): DEN4411

DEN4411 Preclinic Practice Foundations I

Through lectures, in-class exercises and assignments, the fundamentals of client care are introduced with an emphasis on client and operator positioning, importance of ergonomics, instrumentation, personal safety, infection control procedures and response to basic medical emergencies. Students are also introduced to the dental hygiene profession and to the College of Dental Hygienists of Ontario (CDHO) Best Practice Guidelines. Workshop and guest speakers provide essential skills and strategies for successful learning and professionalism.

Prerequisite(s): none
Corerequisite(s): DEN4409

DEN4412 Advanced Dental Anatomy

Dental hygienists are required to document client’s classification of occlusion and all dental
variations and anomalies that may be present. Students learn in-depth knowledge of the anatomy of primary and permanent dentition and its functional relationships. This understanding enables students to perform intra oral examinations and record normal and abnormal oral conditions.

Prerequisite(s): DEN4300
Corerequisite(s): BIO4328

**DEN4414 Preclinic Practice Foundations II**

Fundamentals of the dental hygiene process of care guide student practice with an emphasis on assessment skills and development of the dental hygiene care plan. Response to basic medical emergencies is further explored. Integration of concepts studied in other courses prepares students for practical application of the dental hygiene process of care.

Prerequisite(s): DEN4411
Corerequisite(s): DEN4422

**DEN4416 Dental Materials I**

Knowledge of dental materials is fundamental to ensuring the success of a client’s dental work. Properties and management of dental materials used in preventive and direct restorative dentistry are introduced. Material manipulation skills are developed through demonstration and technique practice with alginate and gypsum products. Knowledge of the Workplace Hazardous Materials Information System (WHMIS) is a requirement.

Prerequisite(s): DEN4300
Corerequisite(s): none

**DEN4418 Oral Disease Prevention**

Evidence-informed oral health promotion and disease prevention for the individual client is integral to the role of the dental hygienist as a preventive specialist. Topics include the study of modalities related to oral health education and interventions for primary, secondary and tertiary levels of prevention. Principles of client education are explored to support adoption of mechanical oral biofilm control techniques, dentifrices, mouth rinses and anti-cariogenic agents, such as fluoride. Oral manifestations, risk factors and preventive care are studied as they relate to oral self-care needs at different life stages and for clients with special needs. Tobacco cessation theory is studied with emphasis on the biochemical dependence of tobacco and pharmacotherapies.

Prerequisite(s): none
Corerequisite(s): none

**DEN4420 Dental Practice Communications**

Interaction in the dental healthcare setting requires effective interpersonal and group communication skills. Theories of communication, health behaviour change, teaching and learning are examined. The concept of inter-professional collaboration is introduced, with a focus on client/ family-centered care, team functioning and conflict resolution. Students participate in role-play exercises, reflective practice and create learning portfolios.

Prerequisite(s): none
Corerequisite(s): DEN4422

**DEN4422 Preclinic Practicum II**

Clinical instrumentation skills continue to be developed by students on manikins and peers. Additional skills consist of client education, coronal polish, fluoride application and alginate impressions. Knowledge of assessment and dental chart documentation is integrated during pre-clinic as students begin to apply the process of care model on peers. Consolidation of infection control protocols is reinforced.

Prerequisite(s): BIO4322 and DEN4409
Corerequisite(s): DEN4414 and DEN4416 and DEN4418 and DEN4420
DEN4423 Nutrition and Dental Health

A positive nutritional status is essential for the development and maintenance of oral tissues and prevention of oral disease. Through a focus on general principles of nutrition and a healthy diet, students explore sound dietary practices, nutritional screening and counselling throughout the lifespan. Students conduct a thorough dietary analysis on a partner and role play counselling through a variety of case scenarios.

Prerequisite(s): BIO4323
Corerequisite(s): none

DEN4424 Periodontics I

Knowledge of healthy and diseased tissues of the periodontium and the ability to educate clients is vital to dental hygiene practice. Through the use of clinical slides, students identify healthy tissues and pathologic changes in the periodontium and learn to assess signs of health and disease. Students focus on the development of preventive and therapeutic strategies enabling them to formulate individualized care plans.

Prerequisite(s): none
Corerequisite(s): DEN4430 and DEN4432

DEN4426 Population Health

A basic understanding of the fields of epidemiology, population and community health promotion broadens dental hygiene practice. Through in-class and online activities, perspectives of health and healthcare systems as they have evolved through history are discussed. Epidemiologic principles are used to explore the burden of oral disease and access to care issues. Cultural competency is developed during the study of diverse populations. Students prepare and present comprehensive profiles of diverse populations.

Prerequisite(s): DEN4418 and DEN4420
Corerequisite(s): none

DEN4428 Pharmacology

Dental hygienists must understand and interpret pharmacology and health histories to make appropriate decisions about client care. Students learn about medications and their origin, physical and chemical properties, modes of administration and effects upon the body systems. Emphasis is placed on pharmaceutical agents commonly used in the dental environment, as well as medications prescribed by the physician. An overview of regularly prescribed medications and their associated oral manifestations are explored.

Prerequisite(s): none
Corerequisite(s): BIO4333 and DEN4430 and DEN4432

DEN4430 Preclinic Practicum III

The process of care and development of advanced instrumentation skills and procedures form the foundation from which students begin to build sound clinical practices. This practicum is the transition from preclinical to the clinical environment where students apply knowledge, skills and judgement in a client care setting under supervised conditions. Mentoring experiences provide an opportunity to learn from senior level dental hygiene students.

Prerequisite(s): BIO4324 and BIO4326 and BIO4328 and DEN4321 and DEN4412 and DEN4420 and DEN4422
Corerequisite(s): DEN4424 and DEN4432

DEN4432 Preclinic Practice Foundations III

The theoretical foundation to guide students through the transition of the delivery of dental hygiene

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Dental Hygiene
Dental Hygiene services from manikins and fellow students to clients is provided. An intermediate stage of critical thinking in delivery of client care services is expected with an emphasis on the assessment and planning stages of the dental hygiene process of care. Principles of advanced instrumentation, ultrasonic instrumentation, sub-gingival irrigation and radiographic interpretation are discussed.

Prerequisite(s): BIO4324 and BIO4326 and BIO4328 and DEN4321 and DEN4412 and DEN4418 and DEN4420 and DEN4422
Corerequisite(s):DEN4424 and DEN4430

DEN4434 Dental Materials II

Knowledge of the theory and clinical properties of dental materials in restorative dentistry and various dental specialties is vital to the dental hygiene profession. Materials are discussed from a theoretical basis with some practical demonstration to develop manipulation skills. Using objective criteria students self and peer evaluate completed projects to identify deficiencies. Emphasis is placed on compliance with Workplace Hazardous Materials Information System (WHMIS) regulations and safe handling, storage and disposal of materials.

Prerequisite(s): none
Corerequisite(s):DEN4430 and DEN4432

DEN4436 Periodontics II

Knowledge of healthy and diseased supporting tissues of the teeth is essential for preserving the periodontium. Students learn how the disease process affects the periodontal tissues of the healthy and medically compromised client. Analyzing clinical findings, developing treatment strategies and discussing implementation of appropriate supportive therapy, enables students in the development of care plans. Students focus on the clinical findings and needs of the client.

Prerequisite(s): none
Corerequisite(s):DEN4442 and DEN4445

DEN4438 Community Dental Health Promotion

Creating and presenting effective oral health promotion interventions is a key role of the dental hygienist. Community and dental public health organizations and activities are investigated. An in-depth focus on health education, mass media messaging, presentation techniques, and social marketing strategies prepare students to create and deliver a variety of education and health promotion materials.

Prerequisite(s): none
Corerequisite(s):none

DEN4440 Professional Issues and Ethics

The theory of professional issues, ethics and the role of the dental hygienist as it has evolved through history is explored. Students are introduced to the legal responsibilities of a healthcare professional through the Regulated Health Profession Act, Professional Standards and the College of Dental Hygienists of Ontario. Students discover the principles, values, code of ethics and jurisprudence related to dental hygiene concepts.

Prerequisite(s): none
Corerequisite(s):none

DEN4442 Clinic Practicum I

Through continued practice in the clinical environment, students enhance their application of knowledge skills and judgement to support clinical dental hygiene practice in a supervised setting. Students deliver comprehensive client-care treatment based on the process of care to clients with increasingly complicated health histories and diverse needs. Self-assessment occurs through development of online journals.

Prerequisite(s): none
Corerequisite(s): DEN4436 and DEN4440 and DEN4445

**DEN4445 Clinic Practice Essentials I**

Peer evaluation, case studies and in-class discussions address issues that support ongoing clinical practice and decision-making skills. Students discuss principles of oral cancer screenings, tobacco and nutritional counselling and vulnerable populations with emphasis on assessment and planning phases of care. Record keeping guidelines, quality of care and time management strategies are emphasized.

Prerequisite(s): none
Corerequisite(s): DEN4442

**DEN4446 Research Methods**

Generating accurate and meaningful conclusions from quantitative and qualitative research requires knowledge of research principles and methods. The importance of critical-thinking processes, levels of evidence, scientific research principles and information evaluation skills are introduced. Methods used to locate, present and describe data are practised. A basic ability to draw conclusions about populations based on sample data is developed. The selection and use of summary values, such as measures of central tendency and measures of variation are examined, as well as some inferential statistical techniques. An overview of research methodology, rigor, bias and research ethics is applied in order to critically appraise a research paper.

Prerequisite(s): none
Corerequisite(s): none

**DEN4448 Orthodontics**

Integration of theoretical and practical knowledge of orthodontics contributes significantly to the development of a dental hygiene care plan. The role of the dental hygienist in recognizing malocclusion and regulatory responsibilities are emphasized. Focus is on facial growth, development of occlusion, biomechanics and treatment rationale. In a pre-clinic setting, students learn and develop orthodontic skills.

Prerequisite(s): DEN4456
Corerequisite(s): DEN4472

**DEN4453 Radiography**

The nature and principles of x-radiation and methods to safely produce diagnostically useful radiographs are essential to being a Healing Arts Radiation Protection (HARP) Act approved operator. Students learn the basic principles and steps in the production of x-radiation. The study of conventional and digital radiographic techniques leads to an introduction of radiography interpretation of tooth structures, surrounding tissues, common dental materials and conditions. Through laboratory practice on manikins, students apply the basic concepts of radiography theory to the production of adult and child bitewing and occlusal radiographs. Students mount and critique radiographs in order to develop the ability to recognize and prevent technique errors. Safety precautions required in the operation of dental x-ray equipment are emphasized.

Prerequisite(s): none
Corerequisite(s): DEN4300

**DEN4456 Clinic Practicum II**

Ongoing practice in a supervised clinical setting provides an opportunity to further build clinical and communication skills with emphasis on all aspects of client-centered care. Pain management concepts are developed in relationship to treatment planning. Students refine their clinical practice decision-making skills to an advanced level that supports early concepts of self-initiation. Clients of all life stages with complex oral healthcare needs can access treatment. Self-assessment occurs through development of online journals specifically related to interprofessional and mentoring experiences.
DEN4459 Clinic Practice Essentials II

An examination of clinical issues related to ongoing clinical practice and decision-making skills must be reflected upon and discussed regularly to build and refine practice. Students discuss the principles of interprofessional practice in various community clinical settings and develop leadership roles through mentoring. Students continue to develop and practise concepts of pain management and anxiety for treatment of clients presenting with advanced stages of periodontal disease. Record keeping guidelines, quality of care and time management strategies are emphasized. Peer evaluation, case studies and in-class discussions address clinical issues. Students prepare a professional portfolio in keeping with the expectations of the College of Dental Hygienists of Ontario’s Quality Assurance Program.

Prerequisite(s): none
Corerequisite(s):DEN4456

DEN4460 Business Concepts

The key elements for the development of a business opportunity are explored. A combination of online research, case studies, group activities and self-directed learning enable students to learn the basic business concepts for establishing and operating a successful small business in their chosen healthcare field and following the guidelines provided by the appropriate College and/or regulatory agency. The roles of a regulated professional that is self-employed or an employee are considered.

Prerequisite(s): none
Corerequisite(s):none

DEN4462 Evidence-Informed Practice I

The ability to critically examine scientific research is essential to the provision of quality and current, evidence-informed care. Components of research including design, ethics, and measures of validity and reliability are investigated. Basic statistical principles are applied to the appraisal of research findings. Steps to locate appropriate research, evaluate methodology and apply findings to professional practice are studied.

Prerequisite(s): DEN4446
Corerequisite(s):none

DEN4464 Dental Hygiene Practice Management

Comprehensive knowledge of CDHO Standards of Practice, dental reception, dental insurance and billing are fundamental to the practice management of a dental or dental hygiene practice. Students investigate the responsibilities and realities of dental hygienists employed in or operating an independent dental hygiene practice. The relevance of operating policies, documentation management and health and safety is considered as it relates to the dental hygienist as an employee or employer. Interprofessional practice collaborative opportunities are explored.

Prerequisite(s): DEN4460
Corerequisite(s):none

DEN4469 Evidence-Informed Practice II

Creating and participating in learning opportunities is key to the ongoing professional development of dental hygienists. Students apply in-depth research and evidence-informed decision-making skills to critically evaluate information, prepare and present a seminar. Specialty topics enrich students’ knowledge of the dental hygiene process of care, career satisfaction and encourage collaborative relationships in the healthcare setting. Strategies in content structure, voicing and body language skills are practised and demonstrated during presentation delivery to peers.

Prerequisite(s): DEN4462
DEN4472 Clinic Practicum III

Consolidation of learning is enhanced by self-initiating client care in accordance with the College of Dental Hygienists of Ontario regulations, guidelines and best practices in a supervised clinical experience. Local anesthetic and temporary restorations are practised at a preclinical level on specialized manikins. Students continue self-evaluation through online journals.

Prerequisite(s): DEN4456 and DEN4459
Corequisite(s): DEN4475

DEN4475 Clinic Practice Consolidation

Clinical case discussions enhance the foundational knowledge of the student. Strategies are explored to prepare students to write the National Dental Hygiene Board exam, a requirement for registration to practise Dental Hygiene in Ontario. Students continue to develop their professional portfolio in keeping with the expectations of the College of Dental Hygienists of Ontario's Quality Assurance Program. Theoretical concepts of pain management, the delivery of local anesthetic and Interim Stabilization Therapy (IST) are studied. Students learn the College of Dental Hygienists of Ontario registration guidelines to prepare for Dental Hygiene practice.

Prerequisite(s): DEN4459
Corequisite(s): DEN4472

DEN4477 Comprehensive Case Studies

The development of critical-thinking skills and the application of theory to dental hygiene care is integral to self-initiation. Through an in-depth analysis of dental sciences the link between evidence-informed theory and complex case studies is established. Previously acquired knowledge is applied to case studies in a classroom setting. Individual assignments, group research projects and presentations consolidate dental hygiene practice knowledge.

Prerequisite(s): DEN4462
Corequisite(s): DEN4469 and DEN4472

DEN4480 Oral Health Outreach I

Outreach clinical care, a key role of the dental hygienist, is implemented and evaluated in a variety of community placement settings. Service-learning opportunities provide interaction with clients and populations that do not access traditional dental services, allowing students to gain insight into unique community needs. Group work and student debates explore the role of advocacy as it relates to influencing health policy. Leadership, interprofessional collaboration and decision-making principles are examined in order to enhance care team functioning and client/community-centred care outcomes.

Prerequisite(s): DEN4438 and DEN4442
Corequisite(s): none

DEN4482 Oral Health Outreach II

Dental hygienists play a significant role in promoting and providing oral health care in community settings. An interprofessional collaborative health team model is implemented as students gain experience with community needs assessment, and diagnosis and development of an oral health promotion program for at risk populations. Ongoing community placements and specialty practice placements provide insight into potential diversification of future dental hygiene practice.

Prerequisite(s): DEN4456 and DEN4480
Corequisite(s): none

ENL1813S Communications I
Communication remains an essential skill sought by employers, regardless of discipline or field of study. Using a practical, vocation-oriented approach, students focus on meeting the requirements of effective communication. Students practise writing, speaking, reading, listening, locating and documenting information, and using technology to communicate professionally. Students develop and strengthen communication skills that contribute to success in both educational and workplace environments.

Prerequisite(s): none
Corerequisite(s): none

**ENL5507 Career Writing Practicum I**

Dental hygienists are responsible for providing information about oral health to clients, other professionals and the public. Clear, concise, and accurate oral and written communication skills are essential for effective and efficient functioning within dental practices. Students critique, summarize and orally present information from current professional dental journals, write informative documents both for colleagues and clients and apply self-assessment to improve their communication skills.

Prerequisite(s): ENL1813S
Corerequisite(s): none

**GED1927 General Education Elective**

Students choose one course, from a group of general education electives, which meets one of the following four theme requirements: Arts in Society, Civic Life, Personal Understanding, and Science and Technology.

Prerequisite(s): none
Corerequisite(s): none

**PSY1700 Psychosocial Science**

The biological and physiological nature of human beings is integrated with psychological and sociological factors to provide a broad view of human kind. Students enhance their understanding of “the person” to promote professional and social interaction. Students learn the stages of human development over the lifespan. Focus is on a variety of topics including personality development, motivation, sensation, perception, self-concept, stress, culture, social and abnormal psychology. Students complete in class and online labs, activities, a small group presentation and written exams.

Prerequisite(s): none
Corerequisite(s): none